



RECEIVED

10:55 am, Jun 28, 2010

Alameda County
Environmental Health

June 25, 2010

Re: Well Destruction Report

Shell-Branded Service Station
6750 Santa Rita Road
Pleasanton, California

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,
Shell Oil Products US

A handwritten signature in black ink, appearing to read "Denis L. Brown", with a long horizontal flourish extending to the right.

Denis L. Brown
Project Manager

June 25, 2010
Delta Project No. SCA6750SID
SAP No. 135786

Mr. Jerry Wickham, PG, CEG, CHG
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6540

Re: Well Destruction Report
Shell-Branded Service Station
6750 Santa Rita Road
Pleasanton, California
Case No. RO0002522



Dear Mr. Wickham:

On behalf of Equilon Enterprises LLC *dba* Shell Oil Products US (Shell), Delta Consultants (Delta) has prepared this Well Destruction Report describing the abandonment of seven wells at the above referenced site (Figure 1). A letter from Alameda County Environmental Health (ACEH) dated March 25, 2010, requested that all monitoring wells associated with the site be decommissioned prior to issuance of a remedial action completion certificate and case closure (Attachment A). The destruction of onsite and offsite of Wells MW-1 through MW-7 was performed on May 17 through 19, 2010.

SITE DESCRIPTION

The site is an active Shell-branded service station located on the southeast corner at the intersection of Santa Rita Road and Pimlico Drive in a mixed commercial and residential area of Pleasanton, California (Figure 1). The station facilities consist of a small convenience store, a car wash, a storage/restroom building, four underground storage tanks (USTs) and ten fuel dispensers (Figure 2).

PREVIOUS INVESTIGATIONS

A summary of previous investigations at the site is provided in the table below.

Summary					
Date	Activity	No. of Borings / Samples	Report Date	Consultant	Comments
October 2002	Site Investigation associated with Shell Groundwater Assessment Program (GRASP*)	Installed four groundwater monitoring wells (MW-1 through MW-4)	2/7/2003	KHM Environmental Management, Inc. (KHM)	No petroleum hydrocarbons or fuel oxygenates were detected in the soil.
November 2002	Site Upgrades – UST, piping and dispenser replacement	Collected 36 samples from beneath the former USTs, dispensers and piping [T-1DP, T-1DF, T-2P thru T-4P, T-2F thru T-4F, D-1 thru D-10, P-1 thru P-16, T-2P-W & TP-W]	12/19/2002	KHM	A crack was observed in UST T-3 from hoisting out of pit. Approximately 17,000 gallons of water were pumped out of the UST pit and disposed of at Shell's Martinez refinery. Maximum concentrations in soil and groundwater: TPPH: 10 mg/kg (D-2@5') & 9,300 µg/L (TP-W) TEPH: 18 mg/kg (P-11@5.5') & 55,000 µg/L (T-2P-W) MTBE: 2.5 mg/kg (T-2P & T-3P @14') & 11,000 µg/L (T-2P-W) TBA: 6.1 mg/kg (T-2P@14')
January 2003	Underground Storage Tank Unauthorized Release Report	Sampled the 4 new monitoring wells	1/6/2003 – 1/16/03	KHM	Maximum groundwater concentrations in new wells TEPH – 120 µg/L (MW-2) MTBE – 8,000 µg/L (MW-3) TBA – 1,500 µg/L (MW-3)
May 2003 to October 2005	Periodic Batch Extraction	Extracted groundwater from wells MW-1 thru MW-3 using a submersible pump	Various	Delta	A total of 10,187 gallons of water were pumped from the wells, and approximately 0.121 lbs TPPH and 0.292 lbs MTBE were removed.
December 2003	Cone Penetration Test (CPT) Borings	Advanced 3 CPT Borings (CPT-1 through CPT-3)	3/3/2004	Delta	Maximum groundwater concentrations: TEPH – 300 µg/L (CPT-1@70') MTBE – 18 µg/L (CPT-3@46'). All other constituents were below the laboratory reporting limits.

Summary (cont.)					
Date	Activity	No. of Borings / Samples	Report Date	Consultant	Comments
January 2005	Offsite Well Installation	One (MW-5)	Various	Delta	Soil samples were not submitted for laboratory analysis.
November and December 2005	Well Installation	Drilled 11 exploratory borings (B-1 thru B-11) and installed two off-site wells (MW-6 & MW-7)	1/18/2006	Delta	Maximum concentrations in soil and grab groundwater: TEPH: 320 mg/kg (B-10@10') MTBE: 0.27 mg/kg (B-4@35' & B-11@35') and 140 µg/L (B-7) TBA: 0.39 mg/kg (B-11@45') and 12 µg/L (B-7)
December 2002 to Present	Quarterly Groundwater Monitoring	Sample and gauge wells MW-1 through MW-7	Various	Delta	Changed to semi-annual monitoring and sampling in 2009
March 2006 to June 2006	Operation of a temporary GWE System	System connected to Well MW-2	11/15/2006	Delta	A total of 38,950 gallons of water were pumped from Well MW-2 at a rate of about 0.5 gpm; a total of 0.069 lbs TPPH and 0.063 lbs MTBE were removed.
May 19, 2010	Well Abandonments	Wells MW-1 through MW-7	6/28/2010	Delta	All groundwater monitoring wells associated with the site were decommissioned.

NOTES:

TPPH = Total purgeable petroleum hydrocarbons as gasoline
 MTBE = Methyl tert-butyl ether
 mg/kg = milligrams per kilogram
 lbs = pounds
 gpm = gallons per minute

TEPH = Total extractable petroleum hydrocarbons as diesel
 TBA = Tert-butyl alcohol
 µg/L = micrograms per liter
 GWE = Groundwater Extraction

*GRASP (Groundwater Assessment Program) is a voluntary initiative by Shell to install and maintain groundwater monitoring wells at numerous retail service stations nationwide that do not have active release cases but have been identified as being within close proximity to one or more public water supply wells. The purpose of this program is to proactively monitor the groundwater beneath these sites and, in the event of a subsurface release, respond quickly to protect public wells from impact.

GROUNDWATER MONITORING WELL ABANDONMENTS

On May 17 through 19, 2010 groundwater monitoring Wells MW-1 through MW-7 were abandoned by pressure grouting with neat cement grout. The well abandonments were performed by Cascade Drilling, Inc. of Rancho Cordova, California, and overseen by a Delta environmental scientist under the direct supervision of a California, state-licensed professional geologist.

Pre-Field

Delta obtained all required permits and approval of pressure grouting method prior to the commencement of well destruction fieldwork. A copy of the well destruction permit issued by the Zone 7 Water Agency is provided as Appendix B.

Prior to field work, the wells were marked by Delta, and Underground Service Alert (USA) was contacted for the location of underground utilities. A private utility locating firm was also used to locate underground utilities in the immediate areas of the wells.

Well Destructions

Before pressure grouting began, Delta recorded depth to water and total depth in wells MW-1 through MW-7. The well boxes were then removed and the space around each well was cleared to a depth of approximately 3 to 5 feet below ground surface using air knife technology. Following air knife activities, each well was filled with grout using tremie pipe that extended to the bottom of the well casing. Water did not rise out of the top of any of the wells as grout was added. After being filled with grout, each well was pressurized by attaching a hose to the top of the well casing and applying 25 pounds per square inch (psi) of pressure for 5 minutes. After pressure grouting was completed, the top 3-5 feet of casing was removed and the top of the well vault area was filled with grout to within approximately 1 foot of the surface. The top foot was filled with a concrete cap dyed to match the surrounding surface material. Soil and debris generated by these activities were placed in properly labeled 55-gallon drums and left on-site, pending proper characterization and removal.

REMARKS

This document represents Delta's professional opinions based upon currently available information and is arrived at in accordance with currently acceptable professional standards. This document is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this document were performed. This document is intended only for the use of Delta's Client and anyone else specifically listed on this document. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this document.

If you have any questions regarding this site, please contact Ms. Regina Bussard (Delta) at (408) 826-1876 or Mr. Denis Brown (Shell) at (707) 865-0251.

Sincerely,
Delta Consultants, Inc.



Matt Lambert
Sr. Staff Scientist



Regina Bussard
Project Manager, P.G



cc: Mr. Denis Brown, Shell Oil Products US
Mr. Carl Cox, C and J Cox Corporation, Pleasanton

Attachments:

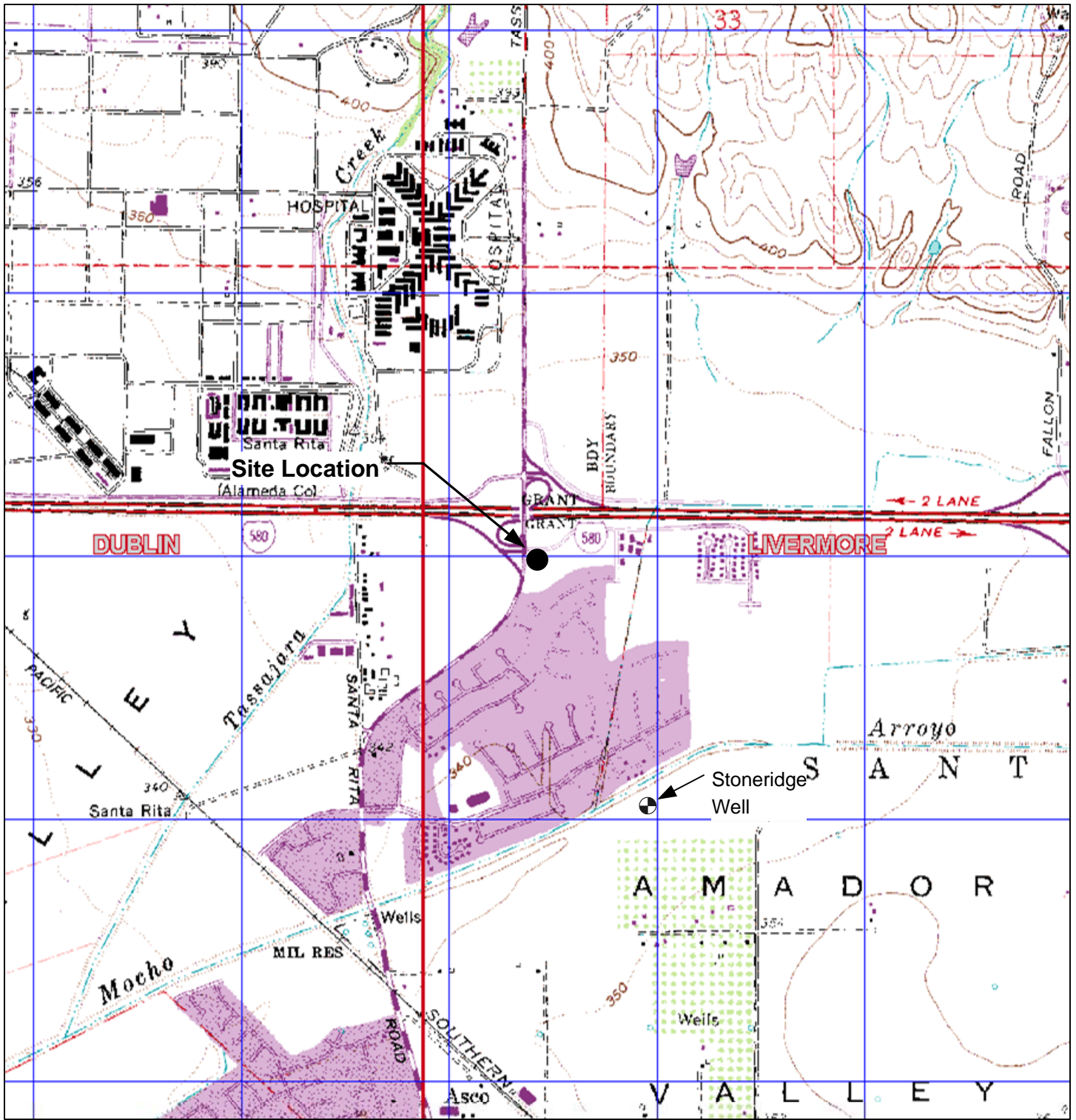
Figure 1 – Site Location Map

Figure 2 – Site Map

Appendix A – ACEH Letter Dated March 25, 2010

Appendix B – Zone 7 Water District Well Destruction Permit

FIGURES



GENERAL NOTES:
 Base Map from: DeLorme Yarmouth, ME 04096
 Source Data: USGS

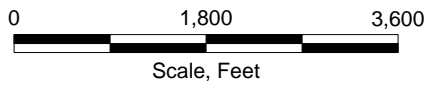
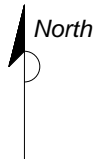


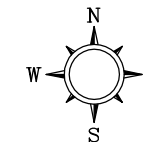
FIGURE 1
SITE LOCATION MAP
SHELL-BRANDED SERVICE STATION
 6750 Santa Rita Road
 Pleasanton, California

PROJECT NO. SCA6750S1A FILE NO. REVISION NO.	DRAWN BY VF 12/04/03 PREPARED BY VF REVIEWED BY
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DELTA CONSULTANTS

PROJECT NUMBER SCA6750S1A
 DRAWN BY J.F.F. 11/24/2009
 CHECKED BY
 APPROVED BY

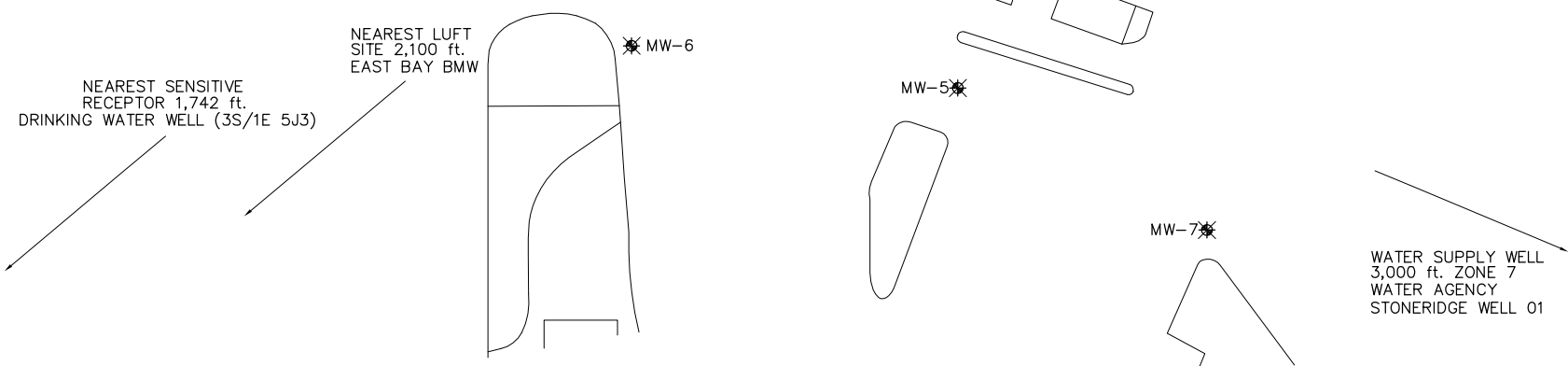
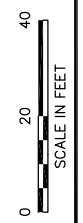
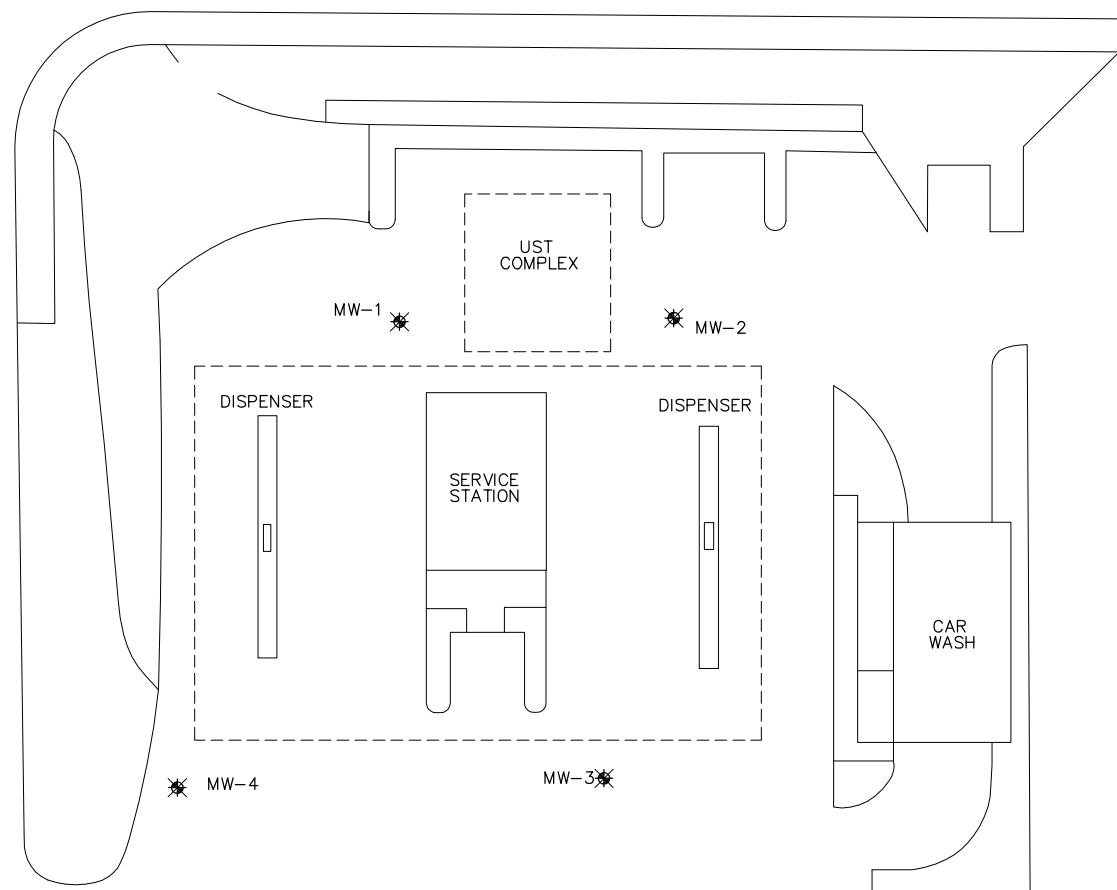
PIMLICO DRIVE



LEGEND

MW-1 ✱ FORMER GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

SANTA RITA ROAD



DELTA CONSULTANTS

SHELL OIL PRODUCTS US
 SHELL-BRANDED SERVICE STATION
 PLEASANTON, CALIFORNIA

**FIGURE 2
 SITE MAP
 5/19/2010**

6750 SANTA RITA ROAD
 PLEASANTON, CALIFORNIA

APPENDIX A

ACEH LETTER DATED MARCH 25, 2010



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

March 25, 2010

Mr. Denis Brown (Sent via E-mail to: denis.l.brown@shell.com)
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Carl Cox
CJC Santa Rita LLC
4431 Stoneridge Drive #110
Pleasanton, CA 94588-8417

Subject: Fuel Leak Case No. RO0002522 and Geotracker Global ID T0600102532, Shell#13-5786, 6750 Santa Rita Road, Pleasanton, CA 94566 – Well Decommissioning

Dear Mr. Brown and Mr. Cox

Alameda County Environmental Health (ACEH) have reviewed the fuel leak case file and case closure summary for the above-referenced site and concur that no further action related to the underground storage tank fuel release is required at this time. Prior to issuance of a remedial action completion certificate and case closure, we request that the monitoring wells at the site be properly decommissioned, should the monitoring wells have no further use at the site. Please decommission the monitoring wells and provide documentation of the well decommissioning to this office no later than June 28, 2010. A remedial action completion certificate will be issued following receipt of the documentation.

Well destruction permits may be obtained from the Alameda County Public Works Agency (<http://www.acgov.org/pwa/wells/index.shtml>). If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Digitally signed by Jerry Wickham
DN: cn=Jerry Wickham, o, ou,
email=jerry.wickham@acgov.org, c=US
Date: 2010.03.25 16:47:03 -0700

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

Denis Brown
Carl Cox
RO0002522
March 25, 2009
Page 2

cc: Danielle Stefani, Livermore Pleasanton Fire Department, 3560 Nevada St, Pleasanton, CA 94566 (Sent via E-mail to: dstefani@lpfire.org)

Cheryl Dizon (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA 94551 (Sent via E-mail to: cdizon@zone7water.com)

Regina Bussard, Delta Environmental Consultants, Inc., 312 Piercy Road, San Jose, CA 95138 (Sent via E-mail to: RBussard@deltaenv.com)

Suzanne McClurkin-Nelson, Delta Environmental Consultants, Inc., 312 Piercy Road, San Jose, CA 95138 (Sent via E-mail to: SMcClurkin-Nelson@deltaenv.com)

Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Jerry Wickham, ACEH
Geotracker, File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	ISSUE DATE: July 5, 2005
	REVISION DATE: March 27, 2009
	PREVIOUS REVISIONS: December 16, 2005, October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

- 1) Obtain User Name and Password:
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to dehloptoxic@acgov.org
Or
 - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
 - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
 - (i) Note: Netscape and Firefox browsers will not open the FTP site.
 - b) Click on File, then on Login As.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

ZONE 7 WATER AGENCY WELL DESTRUCTION PERMIT



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 6750 SANTA RITA RD
Pleasanton, CA 94588

PERMIT NUMBER 2010038
WELL NUMBER 3S/1E-4L1 to 4L7 (MW-1 to MW-7)
APN 946-1101-037-00

Coordinates Source _____ ft. Accuracy/V _____ ft.
LAT: _____ ft. LONG: _____ ft.
APN 946-1101-037

PERMIT CONDITIONS (Circled Permit Requirements Apply)

CLIENT Name SHELL OIL PRODUCTS US LLC
Address 20945 S. Willyton Ave Phone 707-865-0251
City Carson Zip 95138

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your 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 (DWR Form 188), signed by the driller.
3. Permit is void if project not begun within 90 days of approval date.
4. Notify Zone 7 at least 24 hours before the start of work.

APPLICANT Name Delta Consultants
Email m.lambert@deltaenv.com Phone 408-725-8506
Address 312 Precy Rd Phone 408-826-1872
City San Jose Zip 95138

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 _____

PROPOSED WELL USE:

Domestic _____ Irrigation _____
Municipal _____ Remediation _____
Industrial _____ Groundwater Monitoring _____
Dewatering _____ Other _____

DRILLING METHOD:

Mud Rotary _____ Air Rotary _____ Hollow Stem Auger _____
Cable Tool _____ Direct Push _____ Other _____

DRILLING COMPANY

DRILLER'S LICENSE NO. _____

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.

WELL SPECIFICATIONS:

Drill Hole Diameter _____ in. Maximum _____
Casing Diameter 2 in. Depth 42 ft.
Surface Seal Depth _____ ft. Number 7

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.

SOIL BORINGS:

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

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

ESTIMATED STARTING DATE _____

ESTIMATED COMPLETION DATE _____

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

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

APPLICANT'S SIGNATURE [Signature] Date 4/21/10

Approved [Signature] Date 4/27/10
Wyman Hong

ATTACH SITE PLAN OR SKETCH

Revised: January 4, 2010

April 27, 2010

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

Zone 7 Water Agency
6750 Santa Rita Road
Pleasanton
Wells 3S/1E-4L1 to 3S/1E-4L7 (MW-1 to MW-7)
Permit 2010038

Preliminary Destruction Requirements:

1. Remove from the well any pump, appurtenances, debris, or other materials.
2. Sound the well as deeply as practicable and record for your report.
3. Fill casing with neat cement or cement grout sealing material to two feet below the finished grade and pressurize to 25 psi and maintain for 5 minutes, forcing the sealing material through the existing perforations and into the surrounding formation.
4. Release the pressure and refill the empty portion of the casing with grouting material allowing it to spill over the top of the casing to form a cap.
5. Cut and remove any casing(s) to two feet below the finished grade or original ground, whichever is the lower elevation.
6. After seal has set, backfill the remaining hole with compacted material.

PROJECT NUMBER SCA675051A

APPROVED BY

CHECKED BY

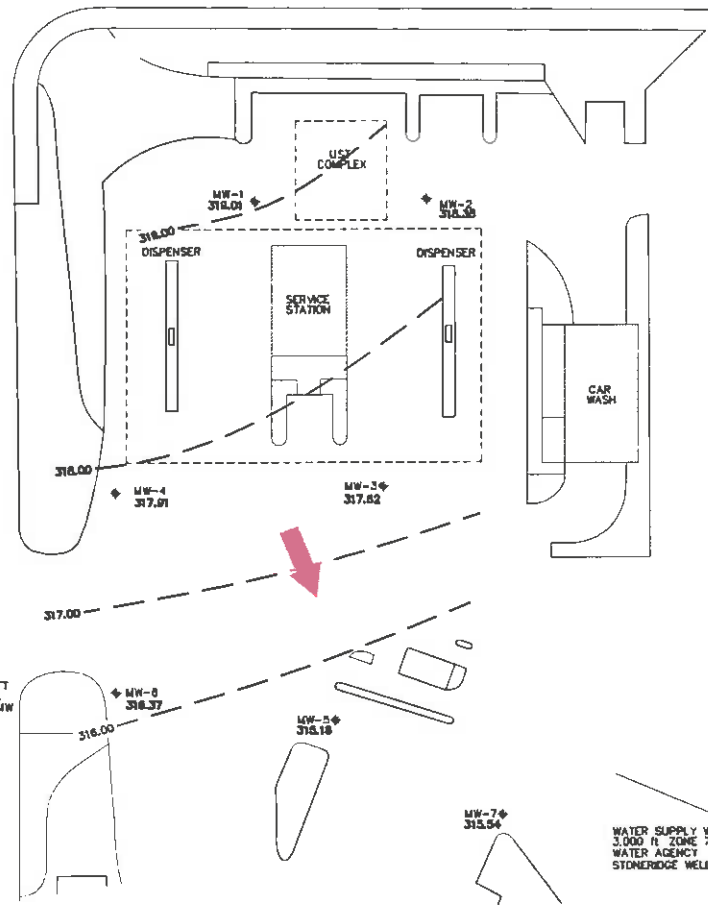
DATE 11/28/09

DRAWN BY J.F.F.



PIMLICO DRIVE

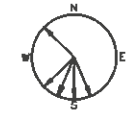
SANTA RITA ROAD



- LEGEND**
- MW-1 ◆ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - 324.08 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (F1/MSL)
 - 318.00 - - - GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (F1/MSL) CONTOUR INTERVAL=1.00 FEET
 - ← (Red Arrow) APPROXIMATE GROUNDWATER GRADIENT DIRECTION (H/H)
 - ANOMALOUS DATA NOT USED IN CONTOURING

HISTORIC GROUNDWATER FLOW DIRECTIONS

DATE	FLOW DIRECTION
1/6/2004	SE
4/8/2004	SE
7/6/2004	SE
10/7/2004	SSE
1/26/2005	SSE
4/14/2005	S
7/28/2005	S
10/10/2005	SSE
1/27/2006	SW
4/20/2006	SE
7/12/2006	SSE
10/20/2006	SSE
1/22/2007	SSE
4/11/2007	SSE
7/6/2007	SSE
10/26/2007	SSE
1/22/2008	SSW
4/11/2008	SSW
7/7/2008	SSE
10/27/2008	SSE
1/6/2009	SSE
4/22/2009	S
10/6/2009	SSE



DELTA CONSULTANTS

SHELL OIL PRODUCTS US
SHELL-BRANDED SERVICE STATION
PLEASANTON, CALIFORNIA

FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP
10/10/2009

6750 SANTA RITA ROAD
PLEASANTON, CALIFORNIA