



76 Broadway
Sacramento, California 95818

RECEIVED

10:44 am, Sep 10, 2008

Alameda County
Environmental Health

September 8, 2008

Ms. Barbara Jacob
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: **Report Transmittal**
Monitoring Well Destruction and Replacement Addendum Report
76 Service Station #5760
376 Lewelling Boulevard
San Lorenzo, California

Dear Ms. Jacob:

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

If you have any questions or need additional information, please call:

Ted Moise (Contractor)
ConocoPhillips
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818

Phone: (916) 558-7666
Fax: (918) 662-4480

Sincerely,

Eric G. Hetrick
Site Manager
Risk Management & Remediation

Attachment

September 8, 2008

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

**RE: Monitoring Well Destruction and Replacement
Addendum Report
76 Service Station No. 5760
376 Lewelling Boulevard
San Lorenzo, California**



Dear Ms. Jakub:

On behalf of ConocoPhillips Company (COP), Delta Consultants (Delta), has prepared this *Monitoring Well Destruction and Replacement Addendum Report* for the removal and replacement of two monitoring wells at the site located at 376 Lewelling Boulevard, San Lorenzo, California (Figure 1).

Groundwater monitoring wells U-1 and U-3 were used for groundwater monitoring at the site. In addition, these two wells were previously used for remediation at the site. Analytical data from quarterly groundwater samples collected from these two monitoring wells indicated that they were consistently impacted by petroleum hydrocarbons. It is suspected that this petroleum hydrocarbon impact may be originating from fuel spills at the surface. Therefore, Delta proposed the removal and replacement of the two monitoring wells in a work plan submitted to the Alameda County Health Care Services Agency (ACHCSA) dated December 14, 2007. The monitoring well locations are shown on Figure 2. The monitoring wells were destroyed and replaced in July 2007 and a report was submitted to ACHCSA in August 2007. However, in a letter dated, July 2, 2008, ACHCSA requested additional information from the well destruction and replacement activities. A copy of the letter is presented as Attachment A. This addendum report was prepared to supply the requested additional information.

SITE DESCRIPTION

The site is located at the southeast corner of the intersection of Lewelling Boulevard and Usher Street in San Lorenzo California. The site is currently an active service station with two dispenser islands, one underground waste-oil tank, two underground

gasoline storage tanks (USTs), and a station building with two mechanic's bays.

PREVIOUS ASSESSMENT

The underground storage tanks (USTs) were removed and replaced in November 1987. At that time monitoring well U-1 was installed in response to the contamination observed during the UST replacement. Information on the installation of well U-1 is documented in a report *Well Installation* prepared by Woodward-Clyde Consultants dated March 25, 1988. Three additional monitoring wells (U-2, U-3, and U-4) were installed in August 1990 by GeoStrategies Inc. (GSI). The installation of these monitoring wells is documented in a report *Monitoring Well Installation Report* prepared by GSI dated November 16, 1990.

In March 1992 GSI installed four off-site monitoring wells (U-5 through U-8) to further delineate the hydrocarbon impact to the groundwater down-gradient of the site. The installation of these monitoring wells is documented in a report *Well Installation Report* prepared by GSI dated June 15, 1992.

An additional off-site monitoring well, U-9, was installed by GSI in May 1993. The installation of this monitoring well is documented in a report *Well Installation Report* prepared by GSI dated August 9, 1993.

In September 1993, twelve borings were advanced as part of a property divestment program. Due to hydrocarbon impacted soils being encountered, three of the borings were converted to vapor extraction wells.

In March 1994, the delineation of hydrocarbon-impacted soils was completed with the advancement of two additional soil borings.

Between August 8 and 13, 1994, a soil vapor extraction (SVE) feasibility test was conducted by Pacific Environmental Group (PEG). The results of the test indicated SVE to be an applicable technology for removal of petroleum hydrocarbons from soil and groundwater beneath the site.

In September 1995 a combination SVE and groundwater treatment (GWT) system was constructed at the site. Start-up activities for the GWT system began on October 3, 1995. SVE system start-up and continuous GWT operation began in mid-October 1995. The system continued to operate until February 1997 when it was shut down due to diminishing incremental benefit.

SENSITIVE RECEPTORS

A sensitive receptor survey was completed in August 2006. No wells were identified within 1,000 feet of the site.

Pre-Field Investigation Activities

A utility survey was conducted prior to the field investigation. Underground Services Alert (USA) was notified prior to drilling operations and the services of a private utility locating company was utilized to reduce the risk of damage to utilities beneath the

property. Additionally, the first five feet of each borehole was cleared before well destruction and replacement activities were conducted on July 18 and 19, 2007.

Delta prepared a site-specific Health and Safety Plan (HASP) in accordance with Title 8, Section 5192 of the California Code of Regulations. The HASP contains a list of emergency contacts, as well as a hospital route map to the nearest emergency facility.

A drilling permit was obtained from the Alameda County Public Works Agency (ACPWA) prior to scheduling the field work. The drilling permits are presented as Attachment B.

Monitoring Well Destruction

On July 18 and 19, 2007, monitoring wells U-1 and U-3 were destroyed and replaced with monitoring wells U-1R and U-3R by Gregg Drilling (Gregg) under supervision of a Delta field geologist. Monitoring well U-1 was destroyed by first removing the well vault, surrounding concrete, neat cement, and the well casing to a depth of 5 feet bgs, using an air-knife and jack-hammer. The remaining well casing was then filled from the bottom up to the ground surface with neat cement using a tremie pipe. This well was initially proposed to be destroyed by over drilling to a depth of 31-feet below the ground surface (bgs) using a limited access drill-rig (LAR) equipped with 10-inch diameter hollow-stem augers. However, upon arrival at the site a large storage container had been placed next to this well not allowing access to the well by the LAR. The additional permit approving the destruction of monitoring well U-1 is presented as Attachment B.

Monitoring well U-3 was destroyed by first removing the well vault, surrounding concrete, neat cement, and the well casing to a depth of 5 feet bgs, using an air-knife and jack-hammer. The remaining well was over-drilling using the LAR equipped with 10-inch diameter hollow-stem augers to a depth of 26 feet bgs. This depth is one foot deeper than the original construction depth of this well. Monitoring well U-3R was subsequently constructed in this borehole. Monitoring well construction details for monitoring wells U-1, U-1R, U-3, and U-3R are presented as attachment C. Department of Water Resources (DWR) 188 forms are presented as Attachment D.

Monitoring Well Installation

Monitoring well U-1R was constructed approximately 2 feet north of the former U-1 location. The boring was advanced to a depth of 25-feet bgs using the LAR equipped with 8-inch diameter hollow-stem augers. The boring was converted to a groundwater monitoring well by installing a 2-inch diameter schedule 40 poly-vinyl chloride (PVC) well casing with a screen interval from 10 to 25 feet bgs. The perforation size in the screen interval is 0.010-inch. A sand pack consisting of RMC Lonestar #2/12 sand was installed into the annular space and extended to approximately two feet above the top of the screen interval. A one-foot thick bentonite seal was placed on top of the sand pack. The monitoring well was surged prior to the placement of the bentonite seal to promote settling of the sand pack. The remainder of the annular space was filled with neat cement and the monitoring well fitted with a locking cap and encased in a trafficked protective vault placed at existing ground level. Monitoring well construction details are presented as Attachment C.

Monitoring well U-3R was constructed in the same borehole that previously contained monitoring well U-3. Subsequent to destroying monitoring well U-3 by over-drilling the borehole was backfilled with bentonite chips from 26- to 25-feet bgs. The boring was converted to a groundwater monitoring well by installing a 2-inch diameter schedule 40 PVC well casing with a screen interval from 10 to 25 feet bgs. The perforation size in the screen interval is 0.010-inch. A sand pack consisting of RMC Lonestar #2/12 sand was installed into the annular space and extended to approximately two feet above the top of the screen interval. A one-foot thick bentonite seal was placed on top of the sand pack. The monitoring well was surged prior to the placement of the bentonite seal to promote settling of the sand pack. The remainder of the annular space was filled with neat cement and the monitoring well fitted with a locking cap. The monitoring well was completed using the existing traffic-rated protective vault from monitoring well U-3. Monitoring well construction details are presented as Attachment C. Gregg Drilling's, drillers logs, are presented as Attachment E.

Well Development, Monitoring, and Sampling

On July 24, 2007 Gregg, under supervision of a Delta field geologist, developed the two newly installed monitoring wells. The newly installed monitoring wells, U-1R and U-3R, were developed using a surge block followed by bailing and pumping removing approximately 20 and 22.5 gallons of groundwater, respectively. Gregg Drilling's, well development logs, are presented as Attachment E.

Monitoring wells, U-1R and U-3R, were first purged and sampled on July 6, 2007 by TRC Solutions, Inc. (TRC) as part of the first monitoring and sampling event following installation and development. The data was presented in the Semi-Annual Monitoring Report prepared by TRC and the Semi-Annual Status Report prepared by Delta and submitted to ACHCAS on October 16, 2007. Groundwater samples were collected from the monitoring wells and analyzed for total purgeable petroleum hydrocarbons (TPPH), benzene, toluene, ethyl-benzene, and total xylenes, (BTEX), methyl tertiary butyl ether (MTBE), and ethanol by EPA method 8260B.

Wellhead Survey

Morrow Surveying, a California licensed surveyor, surveyed the northing and easting of the new monitoring wells using Datum NAVD 88. The monitoring well elevations were surveyed relative to mean sea level, with an accuracy of +/- 0.01 foot. A global positioning system (GPS) was also used to survey in the latitude and longitude of the wells to be uploaded into the State GeoTracker database. A copy of the map produced by Morrow Surveying showing the well locations, site structures, and survey data is presented as Attachment F.

Disposal of Drill Cuttings and Wastewater

Drill cuttings and wastewater generated during well destruction, installation, and development activities was placed into labeled 55-gallon Department of Transportation (DOT) approved steel drums and stored on the service station property. Samples of the drill cuttings and generated wastewater were collected, properly labeled, and placed on ice pending submittal to a California-certified laboratory where they were analyzed for by TPPH, BTEX, and MTBE by EPA Method 8260B and total lead by EPA Method

6010B. A chain-of-custody accompanied the samples during transportation to the BC Laboratories in Bakersfield, California, a California-certified laboratory. The drummed drill cuttings and wastewater were transported and disposed of at a COP approved facility by Filter Recycling on August 14, 2007.

REMARKS/SIGNATURES

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report 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 report will be performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. 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 expressed or implied warranty as to the contents of this report.

If you have any questions regarding this report don't hesitate to contact me at (916) 503-1261 or Mr. Ted Moise of COP at (510) 245-5162.

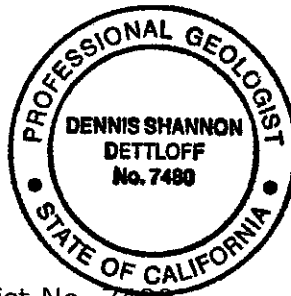
Sincerely,

DELTA CONSULTANTS



Dennis S. Dettloff, P.G.
Senior Project Manger

California Registered Professional Geologist No. 7480



cc: Mr. Ted Moise, ConocoPhillips (electronic copy only)

Figures:

Figure 1 - Site Location Map

Figure 2 - Site Plan

Attachments:

Attachment A - ACHCSA Directive Letter, July 2, 2008

Attachment B - ACPWA Permits

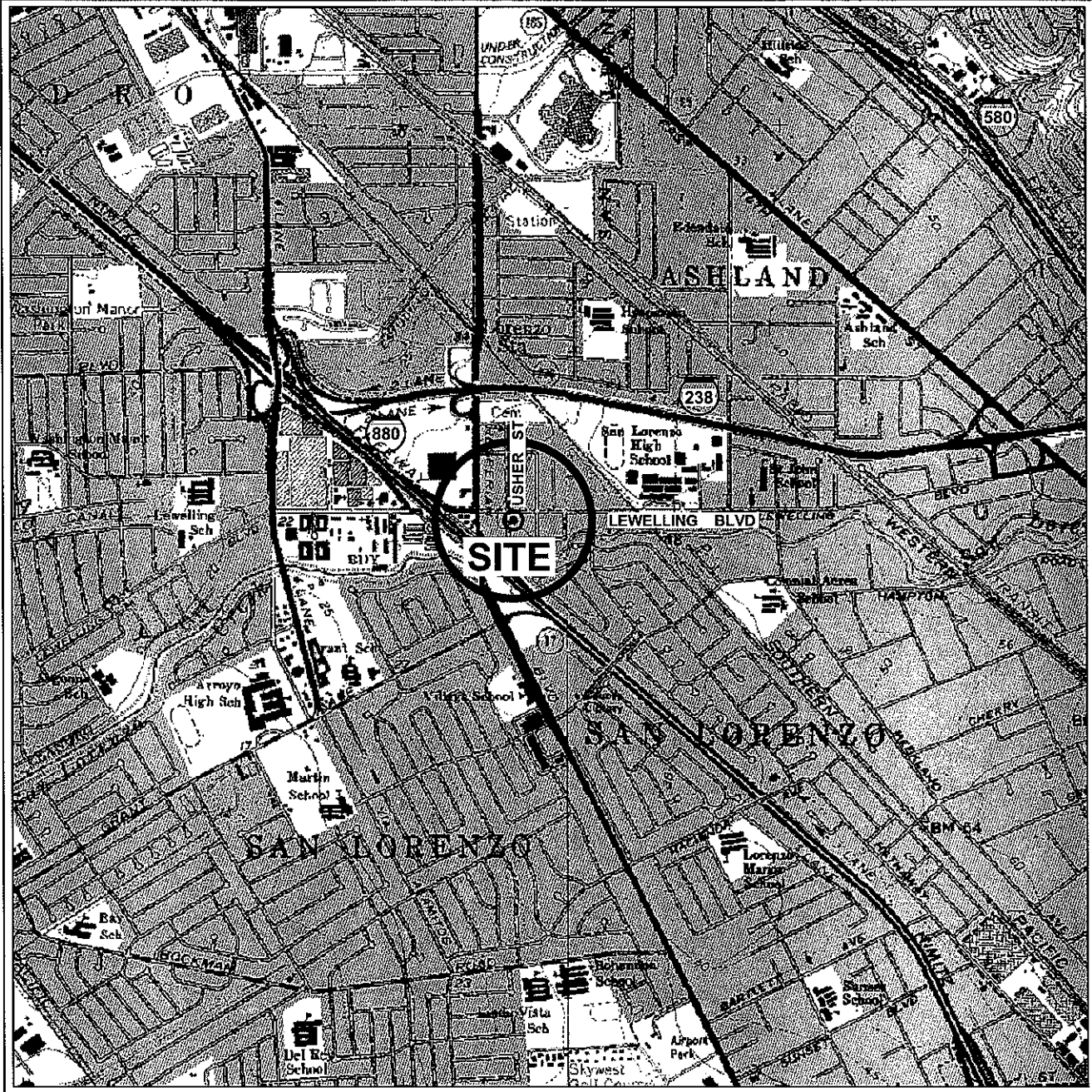
Attachment C - Well Construction Details

Attachment D - DWR 188 Forms

Attachment E - Gregg Drilling Logs

Attachment F - Morrow Surveying, Survey Data

Figures



GENERAL NOTES:
 BASE MAP FROM 3-D TOPO QUADS
 SAN LEANDRO AND HAYWARD, CA. QUADRANGLE
 1967

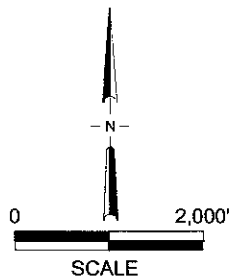


FIGURE 1

SITE LOCATION MAP
 76 SERVICE STATION NO. 5760
 376 LEWELLING BOULEVARD
 SAN LORENZO, CA.

PROJECT NO. C105760	DRAWN BY K. MARTIN
FILE NO. 1202-SLM	PREPARED BY D. DETTLOFF
DATE 12 DEC 06	REV. 0
	REVIEWED BY



Attachment A

ACHCSA Directive Letter

July 2, 2008

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director



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

July 2, 2008

Mr. Bill Borgh (via electronic mail)
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Ramesh and Promila Sood
376 Lewelling Blvd.
San Lorenzo, CA 94580

Subject: Fuel Leak Case No. RO0000344 and Geotracker Global ID T0600101469, UNOCAL #5760, 376 Lewelling Boulevard, San Lorenzo, CA 94580

Dear Mr. Borgh and Mr. and Mrs. Sood:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted documents entitled, *Semi-Annual Summary Report – Fourth Quarter 2007 through First Quarter 2008* dated April 1, 2008, *Monitoring Well Abandonment and Replacement Report* dated August 24, 2007, and *Sensitive Receptor Report* dated August 22, 2006, which were prepared by Delta Consultants. Based upon our review of the case file, we request that you address the following technical comments, perform the proposed work, and send us the technical reports described below.

TECHNICAL COMMENTS

1. **Monitoring Well Abandonment and Replacement Report** – Thank you for recently uploading this document to the Alameda County ftp site. I have reviewed this report and have identified a number of items that appear to be missing:
 - The original well construction details for U-1 and U-3 were not provided in either the work plan or the report. Information on the auger size used for the original wells is needed to ensure that the wells have been properly destroyed. Please provide the original well construction details for U-1 and U-3 in the addendum requested below.
 - The report does not show destroyed well locations, in particular, U1 which was relocated. It is advised that all historical wells, borings and sample points be included on site maps, especially the location of destroyed wells for which historical groundwater monitoring data is presented in the data tables.
 - The report indicates that well U-1 was grouted rather than overdrilled because a trailer was parked too close to the well to obtain rig access. The report does not indicate that this change was approved by the Alameda County Public Works Agency (ACWA) nor does it provide specifics of the well destruction. Please provide a copy of the ACPWA approval. Delta indicated in our April 14, 2008 meeting that the well was grouted and the top of the well seal was removed and replaced with material. Please describe the well destruction method that was used in the addendum requested below. Include a

description of the well destruction method, how the well seal was removed, to what depth and with what material it was replaced.

- The report does not include the driller's information, the geologist on-site, a copy of the DWR well logs for destruction and reinstallation, or the survey data. Please include these in the addendum.
- The well development field data sheets were not included in the report. Please include a copy of these in the addendum.

Please submit a Well Decommissioning Report Addendum with the missing information as described in this technical comment.

2. **Well Survey** – The Sensitive Receptor Report that was submitted on August 22, 2006 did not show the location of the wells identified by the Department of Water Resources on the map. Please plot these on the one-mile radius map to ensure that there are no downgradient receptors and include the well information obtained in a report. The East Bay Plain Groundwater Basin Beneficial Use Evaluation Report (CARWQCB, June 1999) indicates that there may have been active irrigation, municipal and domestic wells downgradient of the site. Please provide this information in the Work Plan requested below.

The report also mentions that San Lorenzo Creek is located within 500 feet of the site. However, no evaluation was made as to whether San Lorenzo Creek is a receptor for groundwater contamination from the site. Please include an evaluation of this in the Work Plan requested below. If your evaluation determines that San Lorenzo Creek could potentially be affected, please include a plan to assess the Creek in the Work Plan requested below.

3. **Regional Geologic and Hydrogeologic Setting** – The regional and local geologic and hydrogeologic setting must be understood in order to begin preparing a site conceptual model (SCM). Please include a concise narrative discussion of the regional geologic and hydrogeologic setting. Include a list of technical references you reviewed. Include a concise discussion of the on-site geology, hydrogeology, release history, source zone, plume development and migration, attenuation mechanisms, preferential pathways, and potential threat to down-gradient and above-ground receptors (e.g. contaminant fate and transport) in the Work Plan requested below.
4. **Contaminant Source Area Characterization** – It appears that the lateral extent of contamination in off-site soil and groundwater has been characterized but neither the vertical extent of the contamination nor the lateral extent of on-site contamination has been fully characterized. This is evident from the dissolved phase TPHg map presented in the monitoring reports which show the TPHg groundwater contours drawn with question marks upgradient of U-1 and U-1R. Also, no soil samples were collected from U-1 (downgradient of the underground storage tanks [USTs]) during well installation (or re-installation). In a dispenser sample collected from D-4, the 3-foot sample contained 0.020 ppm MTBE. No deeper samples were obtained from this location and no follow up investigation was performed to further investigate the MTBE after the dispenser sampling was performed. Please submit a work plan to fully define the vertical extent of petroleum hydrocarbons and oxygenates in soil and groundwater in the areas adjacent to the dispenser islands and the USTs by the due date requested below.

Your work plan may include injection well installation and sampling that will help with future pilot testing in the areas with residual dissolved petroleum hydrocarbon contamination. However, ACEH believes that until the source area is fully characterized, a work plan for

hydrogen peroxide injection is premature. Also, ACEH will not entertain "spot remediation" in the same well that is used as a compliance point. As stated above, the source area needs to be defined and an appropriate method to remediate and monitor the residual contamination whether it be in soil, groundwater or both, should be determined after the full extent of contamination is defined.

5. **Groundwater Contaminant Plume Monitoring** – ACEH agrees with Delta that U-1R and U-3R should be purged and sampled on a quarterly basis for one year. Please ensure that the following analytes are included for all on- and off-site wells: TPH-g, benzene, toluene, ethylbenzene, xylenes, MTBE, Di-isopropyl alcohol (DIPE), ethyl tertiary butyl amyl (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), 1,2-dichloroethane (1,2-DCA) and ethylene dibromide (EDB) by EPA Method 8260. Please discontinue ethanol analysis in all wells except U-1R and U-3R and please collect groundwater elevation data for all wells each quarter. You may continue to submit the results in your semi-annual monitoring reports.

REQUEST FOR INFORMATION

ACEH's case file for the subject site contains only the electronic reports as listed on our website (<http://www.acgov.org/aceh/lop/ust.htm>). You are requested to submit copies of all other reports related to environmental investigations for this property (including Phase 1 reports) by **October 6, 2008**.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Barbara Jakub), according to the following schedule:

- **September 8, 2008** – Well Decommissioning Report Addendum
- **October 1, 2008** – Semi-annual Monitoring Report and Soil and Water Investigation Work Plan

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been

Bill Borgh
RO0000344
July 2, 2008, Page 4

required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rgmts.shtml).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Bill Borgh
RO0000344
July 2, 2008, Page 5

If you have any questions, please call me at (510) 639-1287 or send me an electronic mail message at barbara.jakub@acgov.org.

Sincerely,

A handwritten signature in cursive script that reads "Barbara J. Jakub". The signature is written in dark ink and is positioned above the typed name.

Barbara J. Jakub, P.G.
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Delta, Dennis Dettloff, 11050 White Rock Rd., Rancho Cordova, CA 95670 (via electronic mail)
Donna Drogos, ACEH (via electronic mail)
Barbara Jakub, ACEH
File

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

Effective **January 31, 2006**, 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 Alicia Lam-Finneke.
 - 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 at 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)

Attachment B
ACPWA 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: 05/22/2007 By jamesy

Permit Numbers: W2007-0634 to W2007-0635
Permits Valid from 06/20/2007 to 06/25/2007

Application Id: 1179786354509
Site Location: 376 Lewelling Blvd, San Lorenzo, CA 94541
Project Start Date: 06/20/2007

City of Project Site: San Lorenzo

Completion Date: 06/25/2007

Applicant: Delta Consultants - Dennis Dettloff
3164 Gold Camp Dr #200, Rancho Cordova, CA 95670

Phone: 916-503-1261

Property Owner: Ramesh Sood
376 Lewelling Bl., San Lorenzo, CA 94541

Phone: 510-481-9260

Client: ** same as Property Owner **

Receipt Number: WR2007-0225 Total Due: \$600.00
Payer Name : Delta Total Amount Paid: \$600.00
Paid By: CHECK PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 2 Wells

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

Work Total: \$600.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2007-0634	05/22/2007	09/18/2007	U-1-UR-1	11.00 in.	2.00 in.	4.00 ft	31.00 ft
W2007-0635	05/22/2007	09/18/2007	U-2-UR-2	11.00 in.	2.00 in.	4.00 ft	26.00 ft

Specific Work Permit Conditions

1. 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, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
2. Permitte, 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.
3. 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.
4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with 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 Well Permit

Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Drill out & Replace with New Well

6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

9. 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.

10. 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.

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: 08/23/2007 By jamesy

Permit Numbers: W2007-0932
Permits Valid from 07/18/2007 to 07/19/2007

Application Id: 1187650627308
Site Location: 376 Lewelling Blvd, San Lorenzo, CA 94541
Project Start Date: 07/18/2007

City of Project Site: San Lorenzo
Completion Date: 07/19/2007

Requested Inspection:

Applicant: Delta Consultants - Dennis Dettloff **Phone:** 916-503-1261
3164 Gold Camp Dr #200, Rancho Cordova, CA 95670
Property Owner: Ramesh Sood **Phone:** 510-481-9260
376 Lewelling Blvd., San Lorenzo, CA 94541
Client: ** same as Property Owner **

	Total Due:	\$300.00
Receipt Number: WR2007-0378	Total Amount Paid:	\$300.00
Payer Name : Delta	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 1 Wells

Driller: Gregg - Lic #: 485165 - Method: auger

Work Total: \$300.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2007-0932	08/23/2007	10/16/2007	U-1	10.00 in.	4.00 in.	5.50 ft	30.50 ft	0	W2007-0932	0

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.
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,

Alameda County Public Works Agency - Water Resources Well Permit

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. 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.

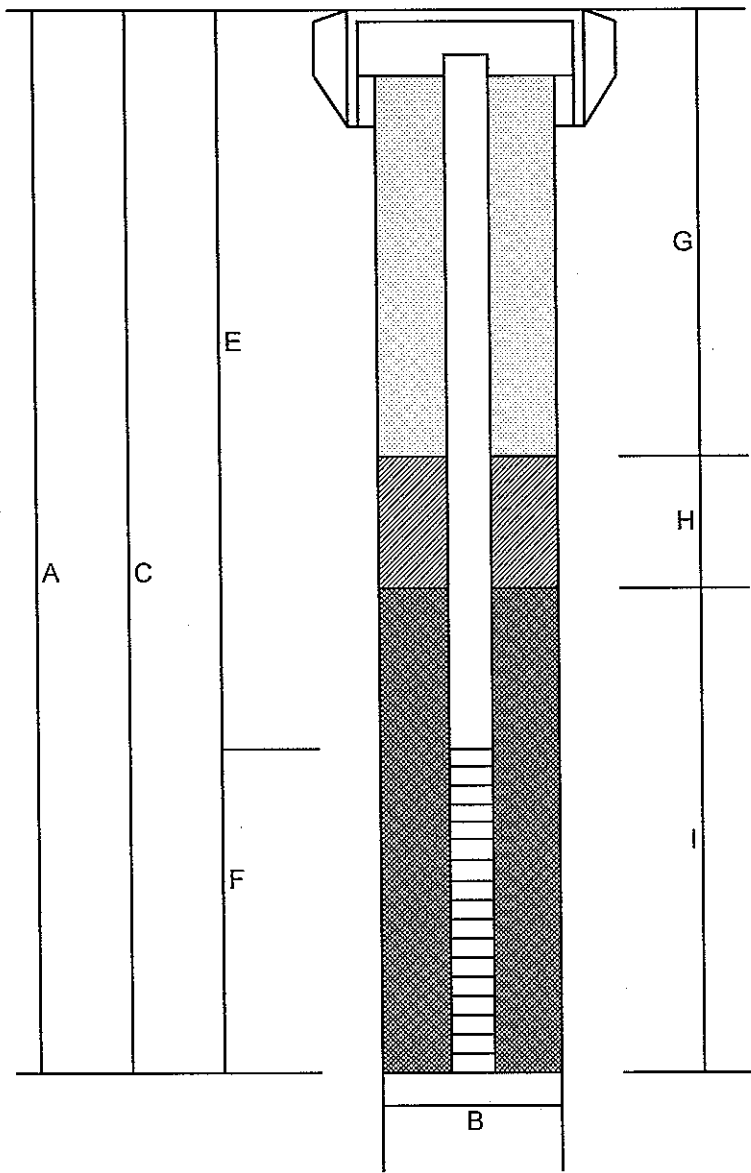
8. Work Completed on 7/18/07-7/19/07

Attachment C

Well Construction Details

MONITORING WELL LOCATION 376 Lewelling Blvd., San Lorenzo, CA		ELEVATION AND DATUM	
DRILLING AGENCY Bay Land Drilling	DRILLER Kurt	DATE STARTED 2/1/88	DATE FINISHED 2/1/88
DRILLING EQUIPMENT CME - 55	COMPLETION DEPTH 30.5'	SAMPLER California Modified Sampler	
DRILLING METHOD 8-inch Hollowstem Augers	DRILL BIT	NO. OF SAMPLES 6	DIST. none
SIZE AND TYPE OF CASING 3-inch PVC	WATER LEVEL FIRST 17.9'	COMPL. 24 HRS.	
TYPE OF PERFORATION 0.020-inch slotted screen	FROM 30.5 TO 10.5 FT.	LOGGED BY: G. Heyman	CHECKED BY: M. Bonkowski
SIZE AND TYPE OF PACK 12/20 Monterey sand	FROM 30.5 TO 7 FT.		
TYPE OF SEAL			
	NO. 1 Bertonite	FROM 7 TO 5.5 FT.	
	NO. 2 Cement	FROM 5.5 TO 0.7 FT.	

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
			ASPHALTIC PAVEMENT		
1	1	1	SAND with CLAYEY SAND yellow-brown with dark gray brown clayey pockets, fine to medium grained, loose, moist, subrounded, moderately to poorly sorted, clayey sand is more common in samples C and D, contains organic fragments	SP-SC	
5	2	2	medium brown, fine to medium grained with little to some clay, very loose to loose, wet, subrounded, well to moderately sorted, fine organic fragments throughout	SP-SC	
10	3	3	SAND with interlayered CLAYEY SILT brown to dark brown, silt is dark gray, fine to very coarse grained sand, little gravel to 2x2x2.5 cm., little to some clay, medium dense, stiff, silt has low plasticity, wet, subrounded to subangular, silt layers are up to 3-inches thick in the B sample	SW & ML	
15	4	4	SAND dark gray, fine to medium grained, little to some clay, little gravel to 0.5x0.5x1cm., loose, saturated, subrounded to subangular, poorly sorted, homogeneous	SW	
20	5	5	-CLAY at 23.5 feet in cuttings-		
25	6	6	SILTY CLAY and CLAY dark to medium gray brown, trace very fine to medium sand, one 2-inch layer of clayey sand, medium to high plasticity, stiff, saturated, homogeneous	CH	
30	7	7	CLAY dark gray brown, little to some silt, occasionally little very fine to medium sand, very plastic, very stiff to hard, wet, homogeneous	CH	
30.5			BOTTOM OF BORING: 30.5'		



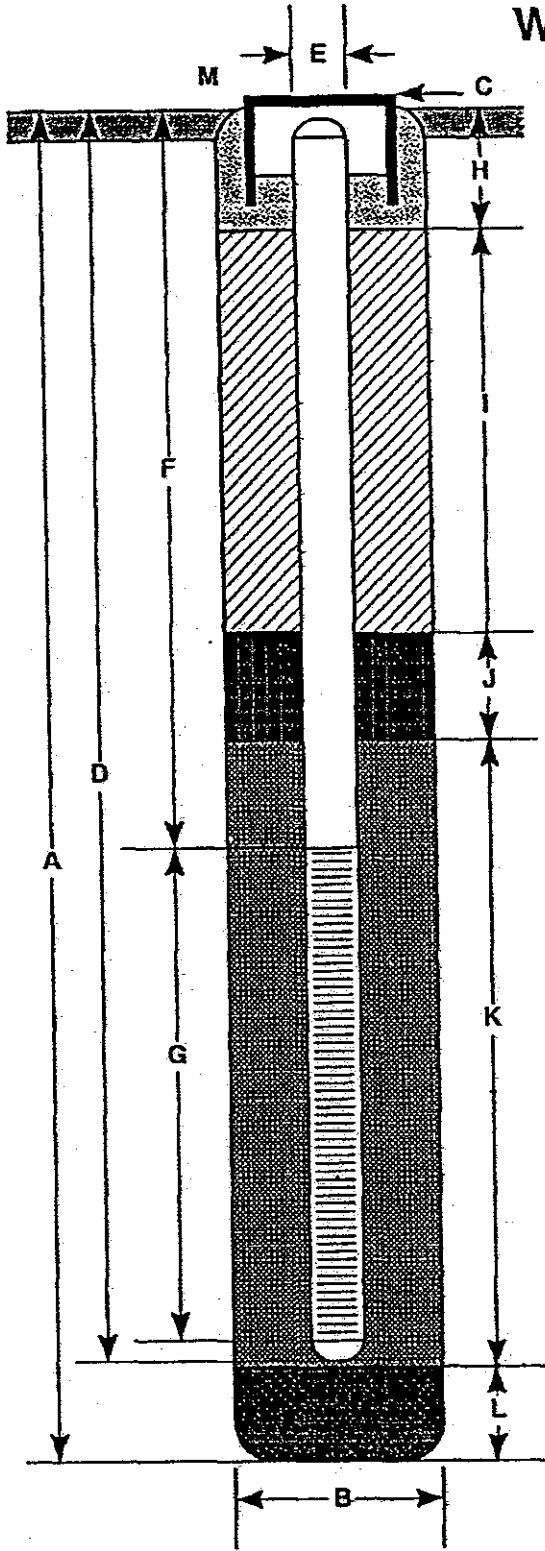
- A: Total Depth: 25' bgs
- B: Boring Diameter: 8-inch
Drilling Method: Hollow Stem Auger
- C: Casing Length: 25'
Material: Schedule 40 PVC
- D: Casing Diameter: 2"
- E: Depth to Perforations: 10'
- F: Perforated Length: 15'
Perforated Size: 0.010"
- G: Surface Seal: 7'
Seal Material: Neat Cement
- H: Seal: 1'
Seal Material: Bentonite
- I: Gravel Pack: 17'
Pack Material: Monterey Sand
Size: #2/12

WELL COMPLETION DIAGRAM (U-1R)
76 Service Station No. 5760
San Lorenzo, California

PROJECT NO. C105760131	PREPARED BY TC	DRAWN BY TC
DATE 7/25/2007	REVIEWED BY	FILE NAME COP 5760



WELL CONSTRUCTION DETAIL



- A Total Depth of Boring 29.0 ft.
- B Diameter of Boring 8 in.
Drilling Method Hollow Stem Auger
- C Top of Box Elevation 39.64 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length 25.0 ft.
Material Schedule 40 PVC
- E Casing Diameter 3 in.
- F Depth to Top Perforations 15.0 ft.
- G Perforated Length 10.0 ft.
Perforated Interval from 15.0 to 25.0 ft.
Perforation Type Machine Slot
Perforation Size 0.020 in.
- H Surface Seal from 0.5 to 1.5 ft.
Seal Material Concrete
- I Backfill from 1.5 to 11.0 ft.
Backfill Material Concrete Grout
- J Seal from 11.0 to 13.0 ft.
Seal Material Bentonite
- K Gravel Pack from 13.0 to 25.0 ft.
Pack Material #2/12 Graded Sand
- L Bottom Seal 4.0 ft.
Seal Material Bentonite
- M Waterproof vault with locking well cap and lock.

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

U-3

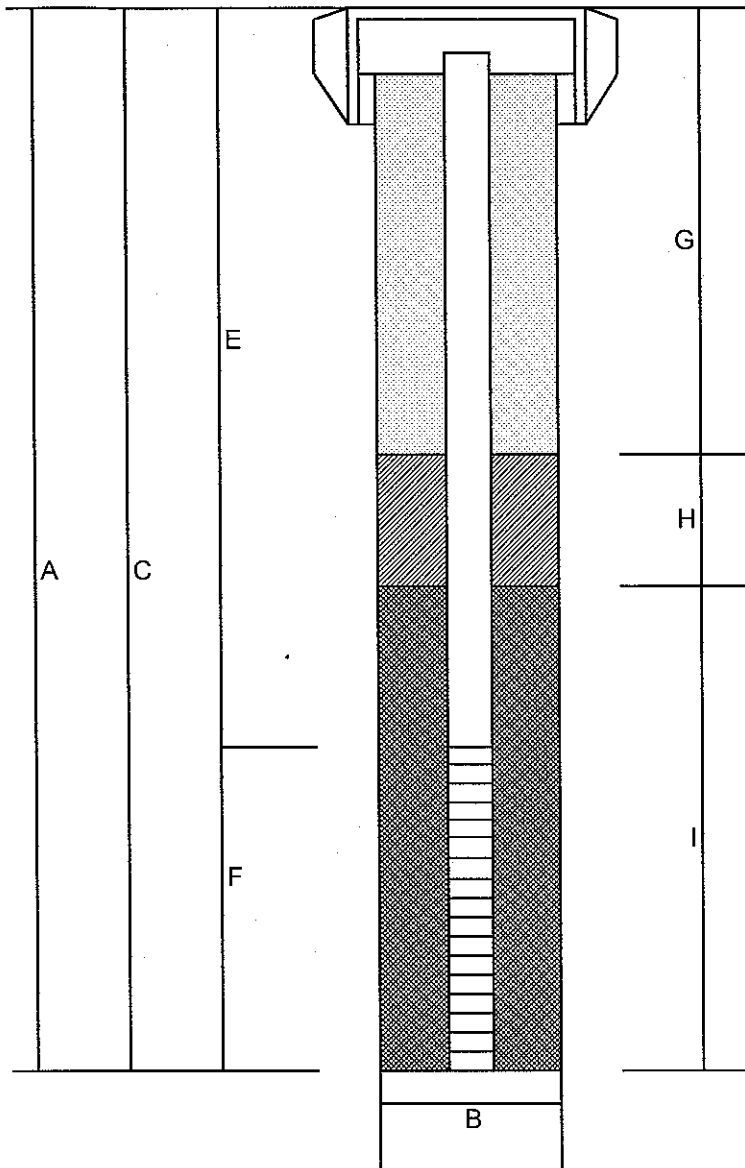
JOB NUMBER
7809

REVIEWED BY RG/CEG
CWP/CEG 12/02

DATE
08/90

REVISED DATE

REVISED DATE



- A: Total Depth: 25' bgs
- B: Boring Diameter: 10-inch
Drilling Method: Hollow Stem Auger
- C: Casing Length: 25'
Material: Schedule 40 PVC
- D: Casing Diameter: 2"
- E: Depth to Perforations: 10'
- F: Perforated Length: 15'
Perforated Size: 0.010"
- G: Surface Seal: 7'
Seal Material: Neat Cement
- H: Seal: 1'
Seal Material: Bentonite
- I: Gravel Pack: 17'
Pack Material: Monterey Sand
Size: #2/12

WELL COMPLETION DIAGRAM (U-3R)
76 Service Station No. 5760
San Lorenzo, California

PROJECT NO. C105760131	PREPARED BY TC	DRAWN BY TC
DATE 7/25/2007	REVIEWED BY	FILE NAME COP 5760



Attachment D

DWR 188 Forms

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

No. 749529

U1

Woodward-Clyde Consultants



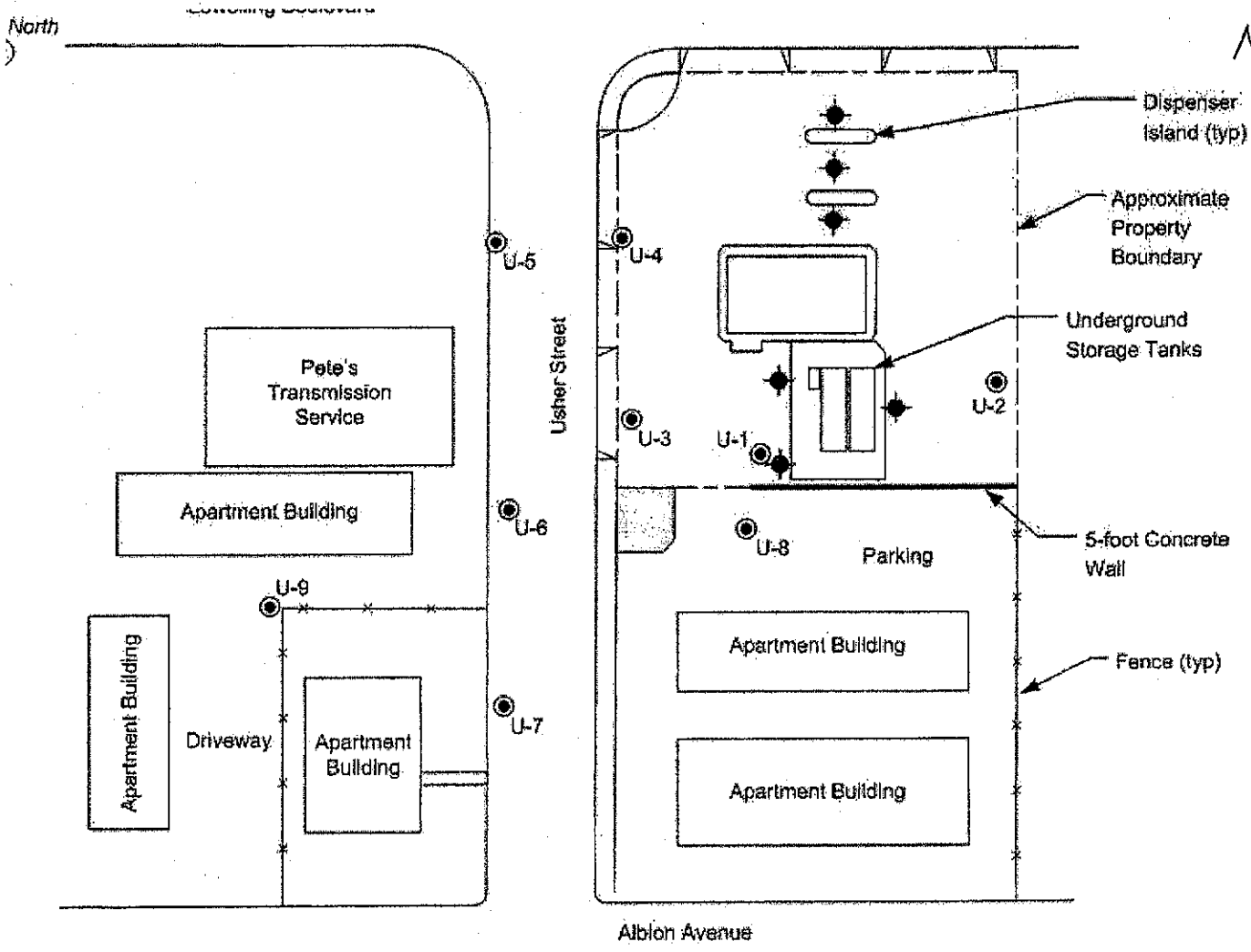
PROJECT NAME Gettler-Ryan

NO. 8820011A

MONITORING WELL LOCATION 376 Lewelling Blvd., San Lorenzo, CA			ELEVATION AND DATUM		
DRILLING AGENCY Bay Land Drilling		DRILLER Kurt	DATE STARTED 2/1/88		DATE FINISHED 2/1/88
DRILLING EQUIPMENT CME - 55			COMPLETION DEPTH 30.5'	SAMPLER California Modified Sampler	
DRILLING METHOD 8-inch Hollowstem Augers		DRILL BIT	NO. OF SAMPLES 6	DIST. 6	
SIZE AND TYPE OF CASING 3-inch PVC			WATER LEVEL	FIRST 17.9'	
TYPE OF PERFORATION 0.020-inch slotted screen		FROM 30.5 TO 10.5 FT.	LOGGED BY: G. Heyman		CHECKED BY: M. Bonkowski
SIZE AND TYPE OF PACK 12/20 Monterey sand		FROM 30.5 TO 7 FT.			
TYPE OF SEAL	NO. 1 Bentonite	FROM 7 TO 5.5 FT.			
	NO. 2 Cement	FROM 5.5 TO 0.7 FT.			

Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION	USCS	Well Construction
0 - 1			ASPHALTIC PAVEMENT		
1 - 5	1	1	SAND with CLAYEY SAND yellow-brown with dark gray brown clayey pockets, fine to medium grained, loose, moist, subrounded, moderately to poorly sorted, clayey sand is more common in samples C and D, contains organic fragments	SP-SC	
5 - 10	2	1	medium brown, fine to medium grained with little to some clay, very loose to loose, wet, subrounded, well to moderately sorted, fine organic fragments throughout	SP-SC	
10 - 15	3	3	SAND with interlayered CLAYEY SILT brown to dark brown, silt is dark gray, fine to very coarse grained sand, little gravel to 2x2x2.5 cm., little to some clay, medium dense, stiff, silt has low plasticity, wet, subrounded to subangular, silt layers are up to 3-inches thick in the B sample	SW & ML	
15 - 20	4	5	SAND dark gray, fine to medium grained, little to some clay, little gravel to 0.5x0.5x1cm., loose, saturated, subrounded to subangular, poorly sorted, homogeneous	SW	
20 - 25	5	7	- CLAY at 23.5 feet in cuttings - SILTY CLAY and CLAY dark to medium gray brown, trace very fine to medium sand, one 2-inch layer of clayey sand, medium to high plasticity, stiff, saturated, homogeneous	CH	
25 - 30	6	23	CLAY dark gray brown, little to some silt, occasionally little very fine to medium sand, very plastic, very stiff to hard, wet, homogeneous	CH	
30 - 30.5			BOTTOM OF BORING: 30.5'		

No. 749529



- LEGEND**
- 7 ● GROUNDWATER MONITORING WELL
 - ★ PROPOSED GEOPROBE™ SOIL BORING
 - PLANTER

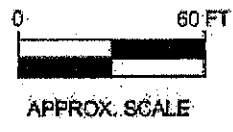



FIGURE 1
PROPOSED GROPROBE SOIL BORING LOCATION MAP

TOSCO (UNOCAL) SERVICE STATION # 5760
376 Lewellin Boulevard
San Lorenzo, California

PROJECT NO. GMP6-CPT-1004	DRAWN BY VF 12/15/83
FILE NO. GMP6-CPT-0004	PREPARED BY VF
REVISION NO. 2	REVIEWED BY VF



Delta
Environmental
Consultants, Inc.

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

No. 749530

Field location of boring: (See Plate 2)				Project No.: 7809		Date: 08/06/90		Boring No:	
				Client: UNOCAL #5760		Location: 376 Lewelling Boulevard		City: San Lorenzo, California	
Drilling method: Hollow Stem Auger				Top of Box Elevation:		Datum:		Casing installation data:	
Hole diameter: 8-Inches				Water Level		Time		Date	
PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description	
				21			SW	SAND with GRAVEL (SW) - very dark gray (2.5Y N3/0), loose, saturated; 80% medium to coarse sand; 20% fine to coarse gravel; strong chemical odor.	
				22					
				23					
	3			24				CLAY (CL) - light olive brown (2.5Y 5/4), stiff, damp, medium plasticity; 85% clay; 15% silt; trace sand; no chemical odor.	
0.7	4	S&H	U-3-25	25					
	9			26					
				27				no chemical odor.	
	4			28					
0	5	S&H	U-3-29	29					
	5			30				Bottom of sample at 29.0 feet.	
				31				Bottom of boring at 29.0 feet.	
				32				08/06/90	
				33					
				34					
				35					
				36					
				37					
				38					
				39					
				40					
Remarks:									



GeoStrategies Inc.

Log of Boring

BORING NO.

U-3

JOB NUMBER
7809

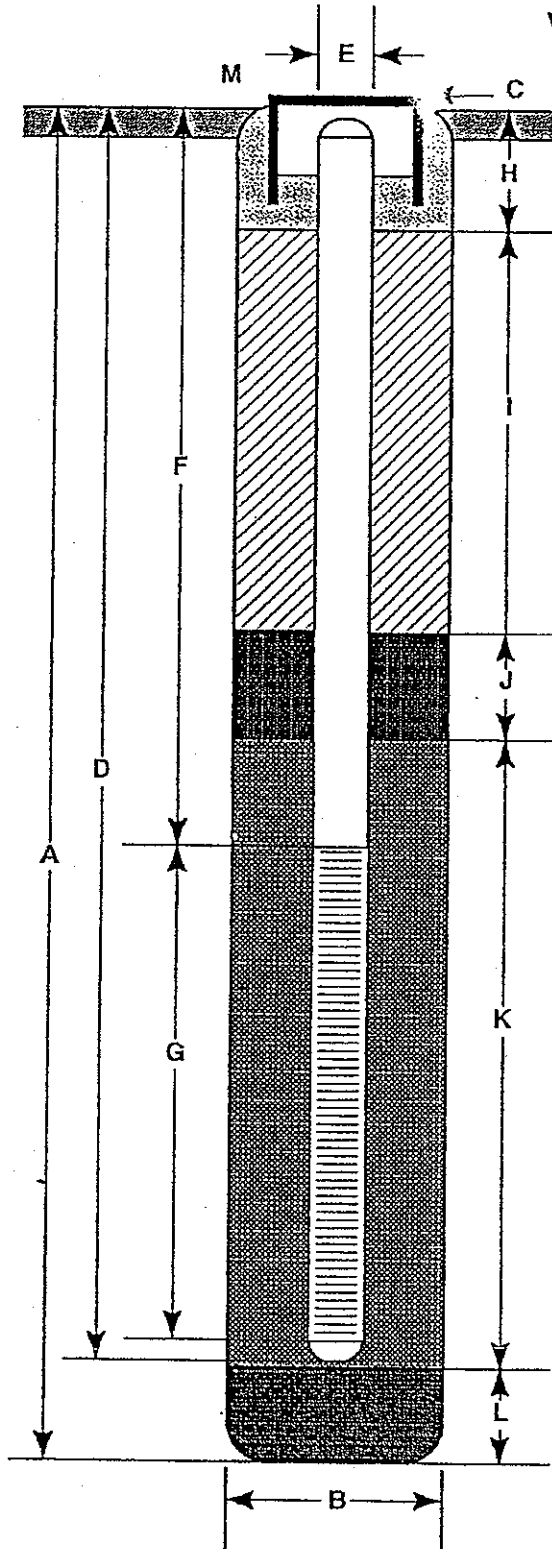
REVIEWED BY RG/CEG
CMP/CE/202

DATE
08/90

REVISED DATE

REVISED DATE

WELL CONSTRUCTION DETAIL



- A Total Depth of Boring _____ 29.0 ft.
- B Diameter of Boring _____ 8 in.
Drilling Method _____ Hollow Stem Auger
- C Top of Box Elevation _____ 39.64 ft.
 Referenced to Mean Sea Level
 Referenced to Project Datum
- D Casing Length _____ 25.0 ft.
Material _____ Schedule 40 PVC
- E Casing Diameter _____ 3 in.
- F Depth to Top Perforations _____ 15.0 ft.
- G Perforated Length _____ 10.0 ft.
Perforated Interval from _____ 15.0 to _____ 25.0 ft.
Perforation Type _____ Machine Slot
Perforation Size _____ 0.020 in.
- H Surface Seal from _____ 0.5 to _____ 1.5 ft.
Seal Material _____ Concrete
- I Backfill from _____ 1.5 to _____ 11.0 ft.
Backfill Material _____ Concrete Grout
- J Seal from _____ 11.0 to _____ 13.0 ft.
Seal Material _____ Bentonite
- K Gravel Pack from _____ 13.0 to _____ 25.0 ft.
Pack Material _____ #2/12 Graded Sand
- L Bottom Seal _____ 4.0 ft.
Seal Material _____ Bentonite
- M _____ Waterproof vault with locking well cap and lock.

Note: Depths measured from initial ground surface.



GeoStrategies Inc.

Well Construction Detail

WELL NO.

U-3

JOB NUMBER
7809

REVIEWED BY RG/CEG
CWP/CEG 1262

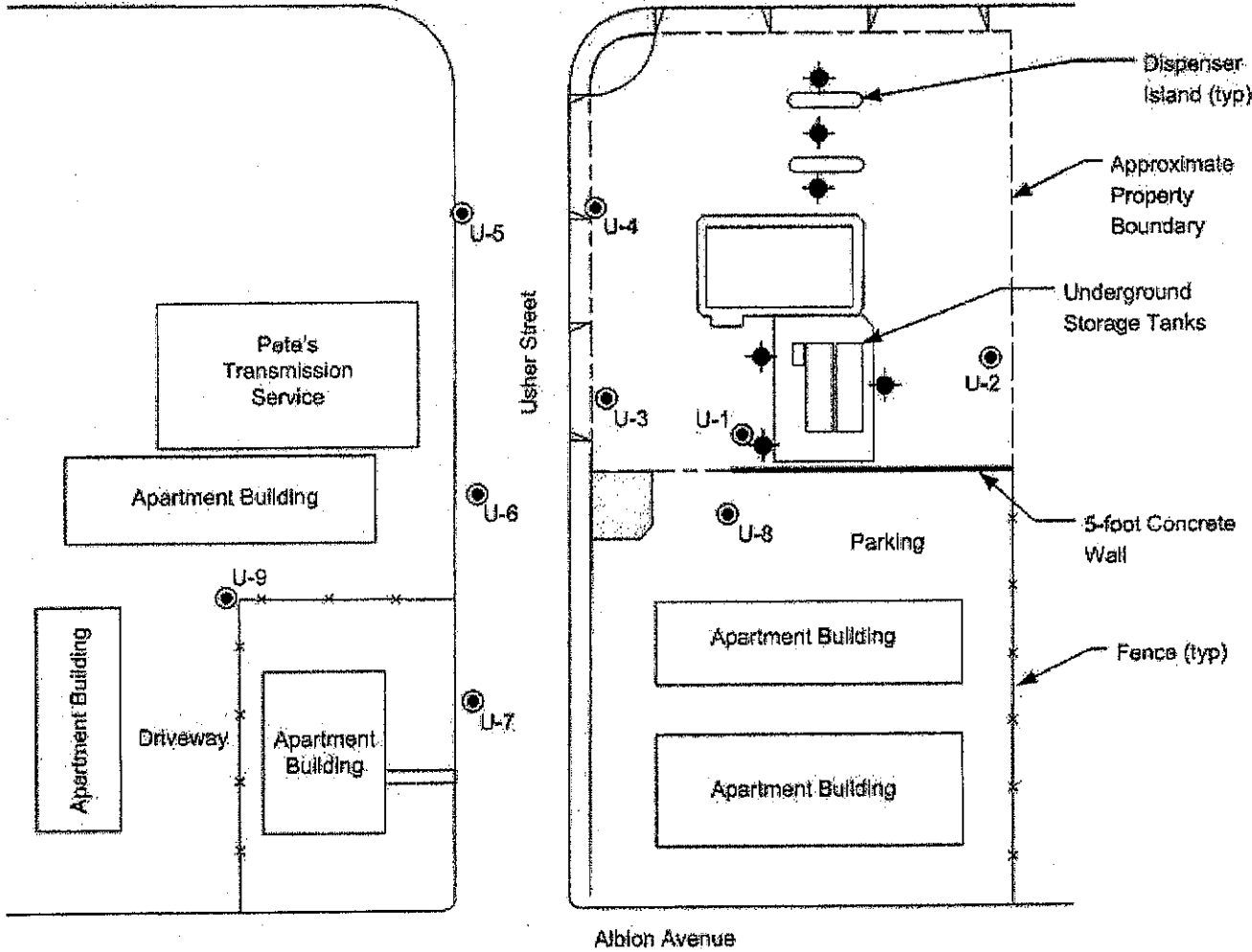
DATE
08/90

REVISED DATE

REVISED DATE

North

No. 749530



LEGEND

- 7 ● **GROUNDWATER MONITORING WELL**
- ◆ **PROPOSED GEOPROBE™ SOIL BORING**
- **PLANTER**

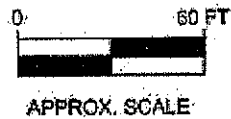



FIGURE 1
PROPOSED GEOPROBE SOIL BORING LOCATION MAP

TOSCO (UNOCAL) SERVICE STATION # 5760
376 Lewellin Boulevard
San Lorenzo, California

PROJECT NO. GMP6-CPT-0004 FILE NO. GMP6-CPT-0004 REVISION NO. 2	DRAWN BY VF 10/15/03 PREPARED BY VF REVIEWED BY VF
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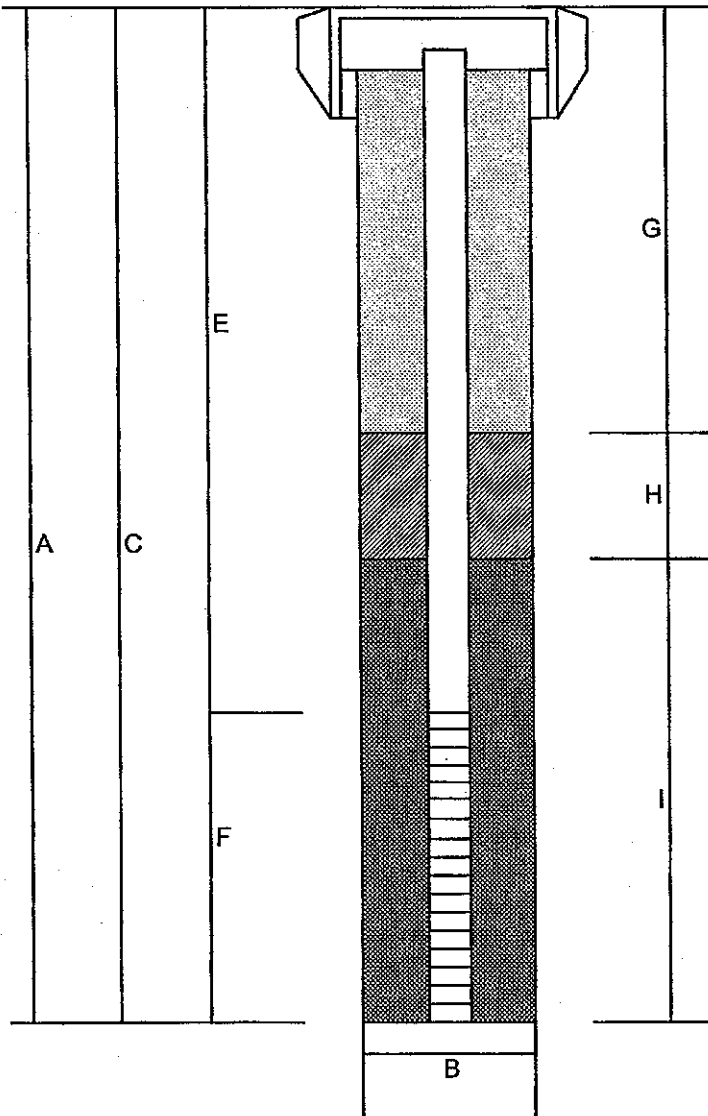
Delta
Environmental
Consultants, Inc.

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

NO. 749531



- A: Total Depth: 25' bgs
- B: Boring Diameter: 8-inch
Drilling Method: Hollow Stem Auger
- C: Casing Length: 25'
Material: Schedule 40 PVC
- D: Casing Diameter: 2"
- E: Depth to Perforations: 10'
- F: Perforated Length: 15'
Perforated Size: 0.010"
- G: Surface Seal: 7'
Seal Material: Neat Cement
- H: Seal: 1'
Seal Material: Bentonite
- I: Gravel Pack: 17'
Pack Material: Monterey Sand
Size: #2/12

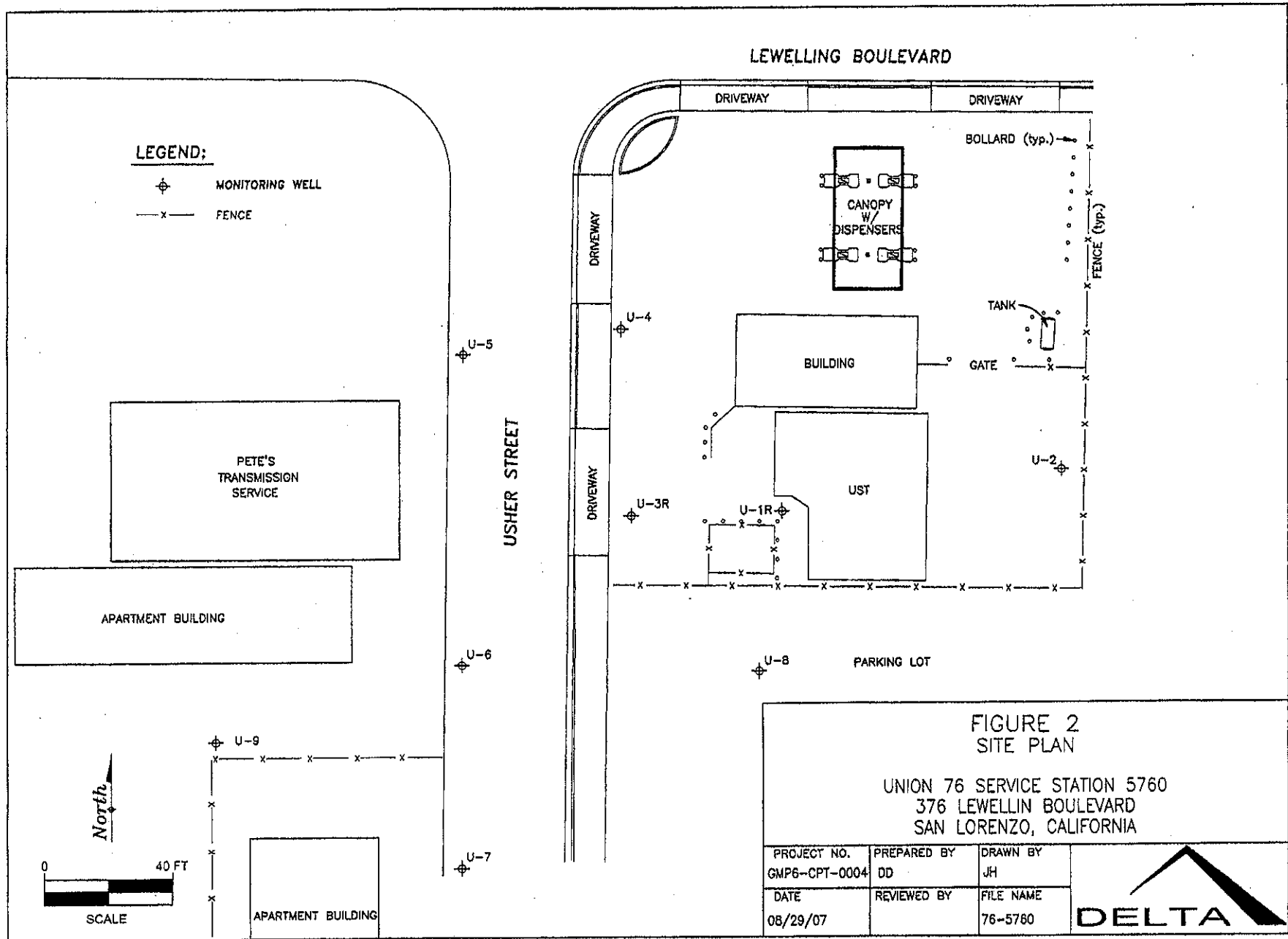
WELL COMPLETION DIAGRAM (U-1R)
76 Service Station No. 5760
San Lorenzo, California

PROJECT NO. C105760131	PREPARED BY TC	DRAWN BY TC
DATE 7/25/2007	REVIEWED BY	FILE NAME COP 5760



MONITORING WELL LOCATION 376 Lowelling Blvd., San Lorenzo, CA				ELEVATION AND DATUM				
DRILLING AGENCY Bay Land Drilling		DRILLER Kurt		DATE STARTED 2/1/88		DATE FINISHED 2/1/88		
DRILLING EQUIPMENT CME - 55			COMPLETION DEPTH 30.5'		SAMPLER California Modified Sampler			
DRILLING METHOD 8-inch Hollowstem Augers		DRILL BIT		NO. OF SAMPLES DIST. 6		UNDIST. none		
SIZE AND TYPE OF CASING 3-inch PVC			WATER LEVEL FIRST 17.9'		COMPL. 24 HRS.			
TYPE OF PERFORATION 0.020-inch slotted screen		FROM 30.5 TO 10.5 FT.		LOGGED BY: G. Heyman		CHECKED BY: M. Bonkowski		
SIZE AND TYPE OF PACK 12/20 Monterey sand		FROM 30.5 TO 7 FT.						
TYPE OF SEAL		FROM 7 TO 5.5 FT.						
		NO. 1 Bentonite						
		NO. 2 Cement						
Depth (feet)	Samples	Blows	MATERIAL DESCRIPTION				USCS	Well Construction
			ASPHALTIC PAVEMENT					
1	1	1	SAND with CLAYEY SAND yellow-brown with dark gray brown clayey pockets, fine to medium grained, loose, moist, subrounded, moderately to poorly sorted, clayey sand is more common in samples C and D, contains organic fragments				No odor	SP-SC
2	2	2	medium brown, fine to medium grained with little to some clay, very loose to loose, wet, subrounded, well to moderately sorted, fine organic fragments throughout				No odor	SP-SC
3	3	3	SAND with interlayered CLAYEY SILT brown to dark brown, silt is dark gray, fine to very coarse grained sand, little gravel to 2x2x2.5 cm., little to some clay, medium dense, stiff, silt has low plasticity, wet, subrounded to subangular, silt layers are up to 3-inches thick in the B sample				Organic odor	SW & ML
4	4	4	SAND dark gray, fine to medium grained, little to some clay, little gravel to 0.5x0.5x1cm., loose, saturated, subrounded to subangular, poorly sorted, homogeneous				Strong hydrocarbon odor Free product on sampler	SW
			- CLAY at 23.5 feet in cuttings -					
5	5	5	SILTY CLAY and CLAY dark to medium gray brown, trace very fine to medium sand, one 2-inch layer of clayey sand, medium to high plasticity, stiff, saturated, homogeneous				Weak hydrocarbon odor	CH
6	6	6	CLAY dark gray brown, little to some silt, occasionally little very fine to medium sand, very plastic, very stiff to hard, wet, homogeneous				Weak hydrocarbon odor	CH
			BOTTOM OF BORING: 30.5'					

No. 749531



CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

No. 749532

Field location of boring: (See Plate 2)				Project No.: 7809		Date: 08/06/90		Boring No: U-3			
				Client: UNOCAL #5760				Sheet 1			
				Location: 376 Lewelling Boulevard				of 2			
				City: San Lorenzo, California							
				Logged by: M.J.J.		Driller: Bayland					
Drilling method: Hollow Stem Auger				Casing installation data:							
Hole diameter: 8-Inches				Top of Box Elevation: 39.64		Datum: MSL					
PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Water Level		19.5' 20.80'	
								Time		14:25 16:05	
								Date		08/06/90 08/06/90	
Description											
PAVEMENT SECTION - 0.5 feet											
FILL - Gravel (GW) - dark gray (2.5Y N9/0), loose, dry; 85% fine to coarse gravel; 15% coarse sand; trace silt; no chemical odor.											
SANDY SILT (ML) - olive brown (2.5Y 4/4), medium stiff, damp; 70% silt; 30% fine sand; no chemical odor.											
SILTY SAND (SM) - light olive brown (2.5Y 5/6), loose, damp; 60% fine sand; 35% silt; 5% clay; trace fine gravel; no chemical odor.											
Moist at 8.0 to 9.0 feet.											
SILTY CLAY (CL-ML) - dark grayish brown (2.5Y 4/2), medium stiff, damp; 50% clay; 35% silt; 15% fine sand; no chemical odor.											
COLOR CHANGE to very dark gray (5Y 3/1) at 14.0 feet; rootholes; 5% organic content; weak chemical odor.											
Remarks:											



GeoStrategies Inc.

Log of Boring

BORING NO.

U-3R

JOB NUMBER
7809

REVIEWED BY RG/CEG
CUMPCEG1262

DATE
08/90

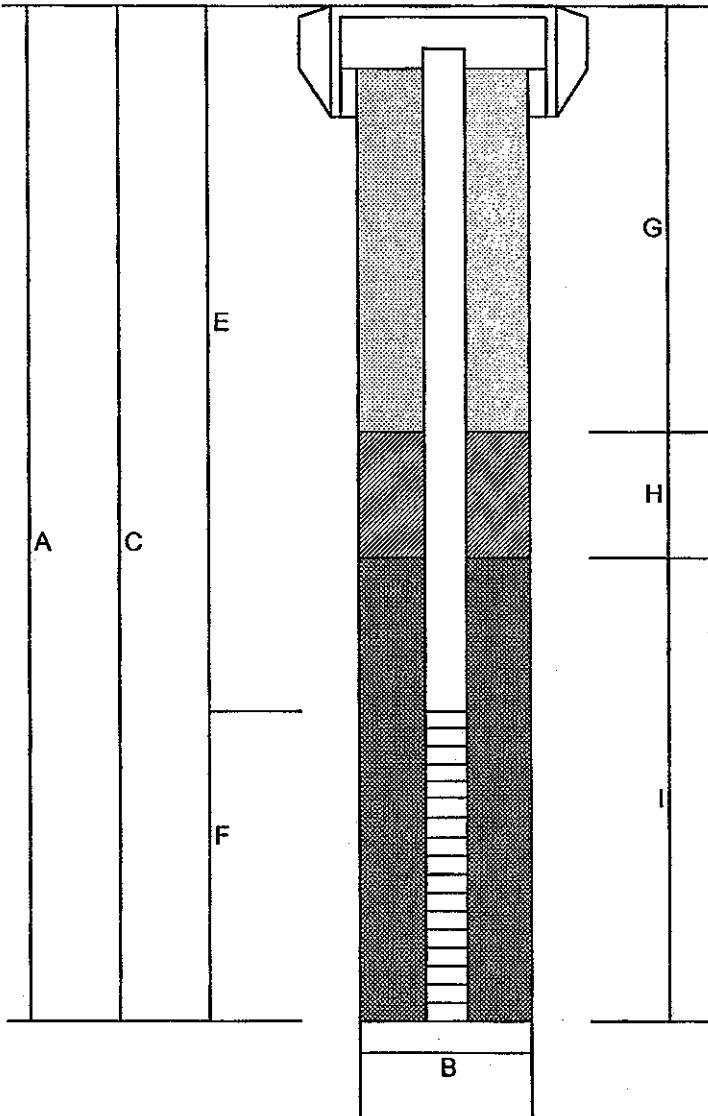
REVISED DATE

REVISED DATE

No. 749532

Field location of boring: (See Plate 2)				Project No.: 7809		Date: 08/06/90		Boring No:	
				Client: UNOCAL #5760		Location: 376 Lewelling Boulevard		City: San Lorenzo, California	
Drilling method: Hollow Stem Auger				Casing installation data:		Top of Box Elevation:		Datum:	
Hole diameter: 8-Inches				Water Level		Time		Date	
PID (ppm)	Blows/ft. or Pressure (psf)	Type of Sample	Sample Number	Depth (ft.)	Sample	Well Detail	Soil Group Symbol (USCS)	Description	
				21				SAND with GRAVEL (SW) - very dark gray (2.5Y N3/0), loose, saturated; 80% medium to coarse sand; 20% fine to coarse gravel; strong chemical odor.	
				22					
				23					
	3			24	█				
0.7	4	S&H	U-3-25	25	█			CLAY (CL) - light olive brown (2.5Y 5/4), stiff, damp, medium plasticity; 85% clay; 15% silt; trace sand; no chemical odor.	
	9			26					
				27					
	4			28	█				
0	5	S&H	U-3-29	29	█			no chemical odor.	
	5			30				Bottom of sample at 29.0 feet. Bottom of boring at 29.0 feet. 08/06/90	
				31					
				32					
				33					
				34					
				35					
				36					
				37					
				38					
				39					
				40					
Remarks:									

No. 749532



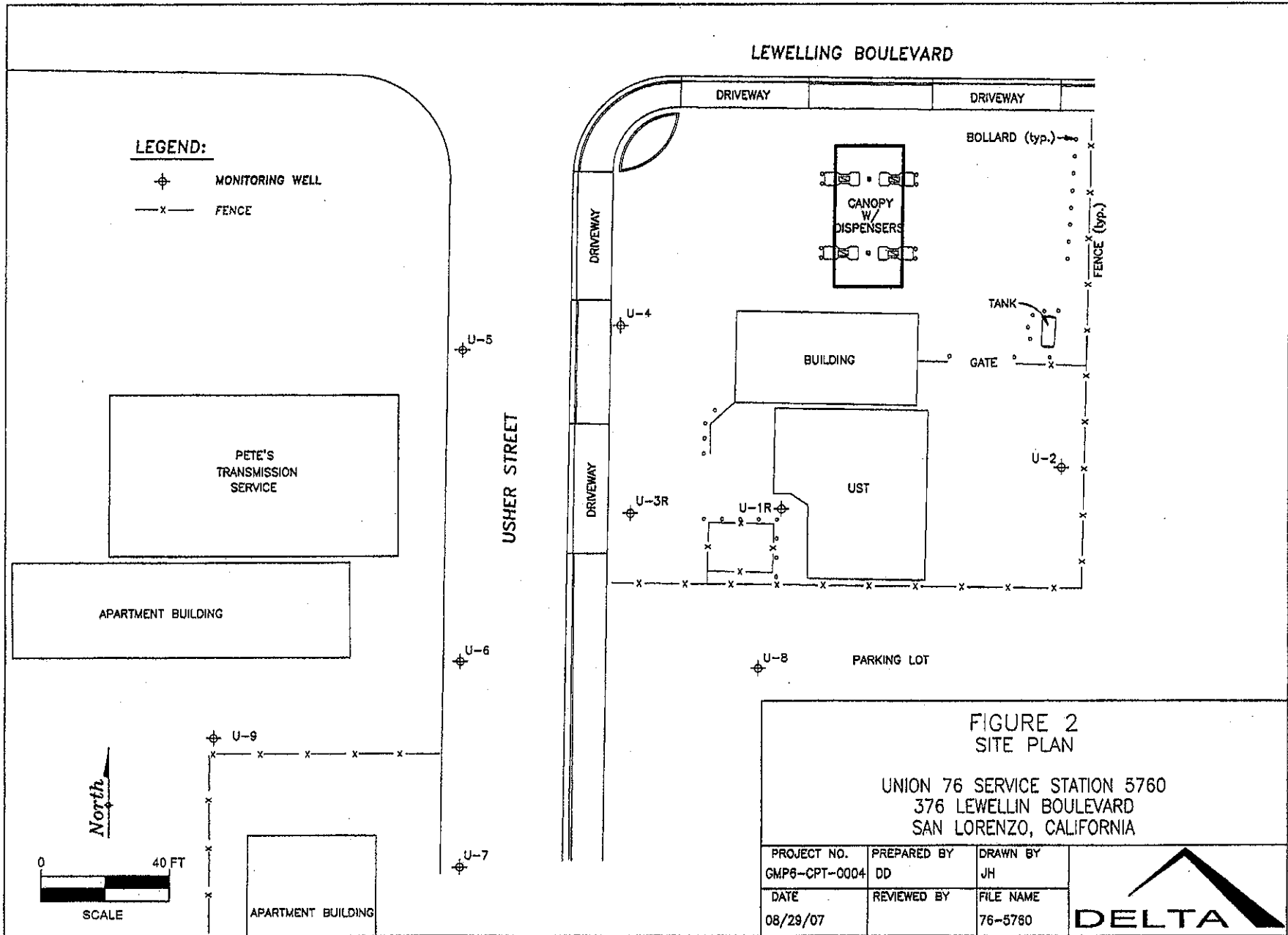
- A: Total Depth: 25' bgs
- B: Boring Diameter: 10-inch
Drilling Method: Hollow Stem Auger
- C: Casing Length: 25'
Material: Schedule 40 PVC
- D: Casing Diameter: 2"
- E: Depth to Perforations: 10'
- F: Perforated Length: 15'
Perforated Size: 0.010"
- G: Surface Seal: 7'
Seal Material: Neat Cement
- H: Seal: 1'
Seal Material: Bentonite
- I: Gravel Pack: 17'
Pack Material: Monterey Sand
Size: #2/12

WELL COMPLETION DIAGRAM (U-3R)
76 Service Station No. 5760
San Lorenzo, California

PROJECT NO. C105760131	PREPARED BY TC	DRAWN BY TC
DATE 7/25/2007	REVIEWED BY	FILE NAME COP 5760



No. 749532



Attachment E
Gregg Drilling Logs



GREGG DRILLING & TESTING

11032

950 Howe Rd. Martinez, CA 94553
Ph: (925)313-5800 Fax: (925)313-0302
www.greggdrilling.com

DATE: 7-18-07
TIME ARRIVE: 7:00

TIME LEFT: 11:00

Company Name: DELTA CONSULTANTS
 Site Name: Union 76 Station #5760
 Address Line 1: 376 Lewelling Blvd
 Address Line 2:
 Cross Street: Usher St
 City: San Lorenzo
 State: Ca
 Thomas Coordinate:

GDT Job Number:
 Reference Number: GD2070728
 Job Start Date: 7/17/2007
 Job End Date: 7/17/2007
 Start Time: 7:30
 Equipments: V70
 Driller/Staff Safety: Armando
 Field Staff 2: Rob

ITEM	UNITS	QUANTITY
RIG NO./TYPE: <u>S70- Av2-VAC</u>	HOUR	<u>4</u>
MOB-DEMOB-TRAVEL	HOUR	<u>2.5</u>
PER DIEM	MAN/NGT	
PREMIUM TIME	MAN/HR	
ADDITIONAL TECHNICIAN	HOUR	
STABBY/MOVE TIME/CONSTRUCTION TIME	HOUR	
STEAM CLEANING AT YARD	DAY	
GROUT PUMP/STEAM CLEANER	DAY	
MUD SYSTEM	DAY	
FRONT-END LOADER/BOBCAT	DAY	
WATER TRUCK TENDER	DAY	
SERVICE TRUCK	DAY	
SERVICE RUNS	HOUR	
CONST./HAND AUGER CREW (2 men)	HOUR	
COCRETE CORING DIA.	EACH	
P.P.D. TIME	HOUR	

BORING #	DEPTH	INTERVAL/TYPE OF SAMPLING	SIZE OF WELL
<u>1</u>	<u>5'</u>	<u>CLEAR</u>	
<u>1</u>	<u>5'</u>	<u>CLEAR</u>	

ITEMS	UNITS	QUANTITY
SEISMC CPT (Interval Test)	TEST	
UVIF RENTAL	DAY	
RESISTIVITY RENTAL	DAY	
BACKFILL TEST LOCATIONS	FOOT	
BENTONITE CHIPS	BAG	
BENTONITE PELLETS	PAIL	
BENTONITE DRILL MUD	BAG	
BENTONITE GROUT	BAG	
FILTER SAND	BAG	
ASPHALT PATCH	BAG	<u>1</u>
READY-MIX CONCRETE	BAG	
PORTLAND CEMENT/QUICK SET	BAG	
WOOD PLUGS	EACH	
DISPOSABLE BAILERS	EACH	
PVC CASING 3/4" 2" 4" OTHER	FOOT	
PVC SCREEN 3/4" 2" 4" OTHER	FOOT	
THREADED FITTINGS 3/4" 2" 4" OTHER	EACH	
SLIP FITTINGS 3/4" 2" 4" OTHER	EACH	
LOCKING CAPS 2" 4" OTHER	EACH	
MONITORING WELL BOX (WATERTIGHT)	EACH	
ANODIZED STAND PIPE	EACH	
GROUNDWATER SAMPLE CONSUMABLES	EACH	
1/4" TUBING	FOOT	
DISPOSABLE TIPS	EACH	
SAMPLE RINGS & CAPS/SHELBY TUBES	EACH	
55-GALLON DRUM	EACH	<u>1</u>
CORE BOXES	EACH	

Section 13751 through 13754 of the California Water Code requires that a report be filed for every groundwater well installation or abandonment. If the client does not elect to submit this report, Gregg Drilling & Testing, Inc. will complete the appropriate paperwork for a \$20 fee per well.

Client to complete GDT to complete

ADDITIONAL SAFETY/CONST. MATERIALS _____

SUBCONTRACTOR & ADDITIONAL EQUIPMENT _____

EQUIPMENT DAMAGE _____

The named parties are hereby notified that if charges for above labor, services, equipment or materials furnished or to be furnished are not paid in full, the improved property referred to above may be subject to mechanics lien (per Section 1181, et. seq. to the California Code of Civil Procedure) and construction funds are subject to "Stop notice" action (per Section 1190.1, California Code of Civil Procedure).

TERMS: NET 30 days. A 3% Reduction of total price if paid within 10 days. 1.5% per month finance charge on accounts 30 days past due. The undersigned accepts the terms as stated above for services rendered.

WE CAN ASSUME NO RESPONSIBILITY FOR DAMAGE OF UNDERGROUND UTILITIES. In the event of adverse and/or hazardous drilling conditions, client will be informed if rate changes and/or responsibility for replacement of lost of damaged equipment. Minimum call out \$500. Also applicable to cancellations within 24 hrs. of scheduled start.

Project Name: _____ P.O./Task # C105760

Signature of Field Representative Tabbitha Cray

Printed Name Tabbitha Cray Date 7/18/07



GREGG DRILLING & TESTING

11037

950 Howe Rd. Martinez, CA 94553
Ph: (925)313-5800 Fax: (925)313-0302
www.greggdrilling.com

DATE: 7-19-07

TIME ARRIVE: 7:30

TIME LEFT: 2:30

Company Name: DELTA CONSULTANTS
 Site Name: Union 76 Station #5760
 Address Line 1: 376 Lewelling Blvd
 Address Line 2:
 Cross Street: Usher St
 City: San Jose, CA
 State: CA
 Thomas Coordinate:

GDT Job Number:
 Reference Number: GD2070729
 Job Start Date: 7/19/2007
 Job End Date: 7/19/2007
 Start Time: 7:30
 Equipments: D42 S67
 Driller/Staff Safety: Bobby
 Field Staff 2: Marco

ITEM	UNITS	QUANTITY
RIG NO./TYPE: <u>D-42 Rino</u>	HOUR	<u>4</u>
MOB-DEMOR-TRAVEL	HOUR	<u>2.5</u>
PER-DIEM	MAN/HR	
PREMIUM TIME	MAN/HR	
ADDITIONAL TECHNICIAN	HOUR	
STABBY/MOVE TIME/CONSTRUCTION TIME	HOUR	<u>3</u>
STEAM CLEANING AT YARD	DAY	<u>1</u>
GROUT PUMP/STEAM CLEANER	DAY	
MUD SYSTEM	DAY	
FRONT-END LOADER/BOBCAT	DAY	
WATER TRUCK TENDER	DAY	
SERVICE TRUCK	DAY	<u>1</u>
SERVICE RUNS	HOUR	
CONST/HAND AUGER CREW (2 men)	HOUR	
COCRETE CORING DIA.	EACH	
P.P.D. TIME	HOUR	

BORING #	DEPTH	INTERVAL/TYPE OF SAMPLING	SIZE OF WELL
<u>①</u>	<u>26'</u>	<u>Drill out - 4" Re In 5x1100</u>	
		<u>a 2" well at 75'</u>	
<u>①</u>	<u>25'</u>	<u>No sampling</u>	<u>2"</u>
		<u>20" x 30" x 4" SD For</u>	
		<u>Well Box</u>	
<u>①</u>	<u>30'</u>	<u>Tremmy Grout</u>	<u>4"</u>
		<u>Cleaned Site, Moved</u>	
		<u>Drums</u>	

ITEMS	UNITS	QUANTITY
SEISMIC CPT (Interval Test)	TEST	
UVIF RENTAL	DAY	
RESISTIVITY RENTAL	DAY	
BACKFILL TEST LOCATIONS	FOOT	
BENTONITE CHIPS	BAG	<u>4</u>
BENTONITE PELLETS	PAIL	
BENTONITE DRILL MUD	BAG	
BENTONITE GROUT	BAG	
FILTER SAND	BAG	<u>16</u>
ASPHALT PATCH	BAG	
READY MIX CONCRETE	BAG	<u>4</u>
PORTLAND CEMENT/QUICK SET	BAG	<u>11/2</u>
WOOD PILING	EACH	<u>2</u>
DISPOSABLE BAILERS	EACH	
PVC CASING 3/4" (2) 4" OTHER	FOOT	<u>20'</u>
PVC SCREEN 3/4" (2) 4" OTHER	FOOT	<u>30'</u>
THREADED FITTINGS 3/4" (2) 4" OTHER	EACH	<u>2</u>
SLIP FITTINGS 3/4" 2" 4" OTHER	EACH	
LOCKING CAPS (2) 4" OTHER	EACH	<u>2</u>
MONITORING WELL BOX (WATERTIGHT)	EACH	<u>2</u>
ANODIZED STAND PIPE	EACH	
GROUNDWATER SAMPLE CONSUMABLES	EACH	
1/4" TUBING	FOOT	
DISPOSABLE TIPS	EACH	
SAMPLE RINGS & CAPS/SHELBY TUBES	EACH	
55-GALTON DRUM	EACH	<u>4</u>
CORE BOXES	EACH	

Section 13751 through 13754 of the California Water Code requires that a report be filed for every groundwater well installation or abandonment. If the client does not elect to submit this report, Gregg Drilling & Testing, Inc. will complete the appropriate paperwork for a \$20 fee per well.

Client to complete GDT to complete

ADDITIONAL SAFETY/CONST. MATERIALS _____

SUBCONTRACTOR & ADDITIONAL EQUIPMENT _____

EQUIPMENT DAMAGE _____

WE CAN ASSUME NO RESPONSIBILITY FOR DAMAGE OF UNDERGROUND UTILITIES. In the event of adverse and/or hazardous dilling conditions, client will be informed if rate changes and/or responsibility for replacement of lost of damaged equipment. Minimum call out \$500. Also applicable to cancellations within 24 hrs. of scheduled start.

The named parties are hereby notified that if charges for above labor, services, equipment or materials furnished or to be furnished are not paid in full, the improved property referred to above may be subject to mechanics lien (per Section 1181, et. seq. to the California Code of Civil Procedure) and construction funds are subject to "Stop notice" action (per Section 1190.1, California Code of Civil Procedure).

TERMS: NET 30 days. A 3% Reduction of total price if paid within 10 days. 1.5% per month finance charge on accounts 30 days past due. The undersigned accepts the terms as stated above for services rendered.

Project Name: _____ P.O./Task # C105760

Signature of Field Representative

Printed Name Tabitha Gray Date 7/19/07



MONITORING WELL DEVELOPMENT LOG

Page _____ of _____

All measurements taken from: Top of Casing Protective Casing Ground Level

Well Number U-1
 Date 7-24-07
 Time Start: 11:40 End: 12:50
 Client Delta consultants
 Project _____
 Job Number _____
 Installation Date _____
 Well Diameter 2"

Borehole Diameter _____
 Screen Length 15'
 Measured Depth (pre-development) 24.35
 Measured Depth (post-development) 24.60
 Static Water Level (ft.) Pre 17.15 Post 17.15
 Standing Water Column (ft.) 7.2
 One Well Volume (gal.) 1.22
 One Annulus Vol. (gal.) _____

Sample ID _____
 Qty. of Drilling Fluid Lost _____
 Minimum Gal. to be Purged _____
 Development Method Surf, Gal, pump
 Purging Equipment SS Gailer 2" pump
 Water Level Equipment Sel. 2"
 pH/EC Meter Hanlon U-10
 Turbidity Meter Hanlon U-10
 Other _____

Time	Amount Purged (gal.)	Field Parameters Measured							Comments	Field Tech.
		pH	EC	Turbidity	D.O.	D.O. Temp.	SAL.	GPM W.L.		
12:25	10.00	6.78	1.53	2999	0.20	20.1°	0.07	1.26	baled 1 gallon + settling tank used to run baled 1 gallon + settling tank	
12:27	12:50	6.72	1.44	2999	0.19	20.0°	0.06			
12:29	15.00	6.71	1.41	669	0.18	20.0°	0.06			
12:31	17.50	6.70	1.40	780	0.13	20.1°	0.05			
12:33	20	6.69	1.40	149	0.13	20.1°	0.05			
FINAL FIELD PARAMETER MEASUREMENTS										



MONITORING WELL DEVELOPMENT LOG

Page _____ of _____

All measurements taken from: Top of Casing Protective Casing Ground Level

Sample ID _____

Well Number U-3
 Date 7-24-07
 Time Start: 8:55 End: 10:30
 Client Delta consultants
 Project _____
 Job Number _____
 Installation Date _____
 Well Diameter 2"

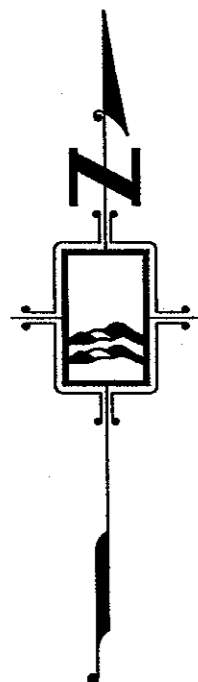
Borehole Diameter _____
 Screen Length 15'
 Measured Depth (pre-development) 24.8
 Measured Depth (post-development) 25.00
 Static Water Level (ft.) Pre 16.20 Post 16.70
 Standing Water Column (ft.) 8.6
 One Well Volume (gal.) 1.46
 One Annulus Vol. (gal.) _____

Qty. of Drilling Fluid Lost _____
 Minimum Gal. to be Purged _____
 Development Method Surge, back pump
 Purging Equipment 55 Gal 2" pump
 Water Level Equipment Selinst
 pH/EC Meter Horiba-U-10
 Turbidity Meter Horiba-U-10
 Other _____

Time	Amount Purged (gal.)	Field Parameters Measured							Comments	Field Tech.
		pH	EC	Turbidity	D.O.	D.O. Temp.	SAL.	GPM W.L.		
10:10	10.00	6.90	1.97	<999	0.26	20.5°	0.09	1.25	could not fit	
10:12	12.50	6.83	1.85	<999	0.13	31.0°	0.08	}	5 Foot surge block	
10:14	15.00	6.82	1.75	<999	0.21	20.5°	0.08		or 5 foot 55 Gal	
10:16	17.50	6.78	1.68	599	0.20	20.5°	0.07		down well	
10:18	20.00	6.77	1.65	407	0.19	20.5	0.07		pumped 15 gallons	
10:20	22.50	6.76	1.61	187	0.19	20.5	0.07		before bonding	
										pumped 25 gallons
FINAL FIELD PARAMETER MEASUREMENTS										

Attachment F

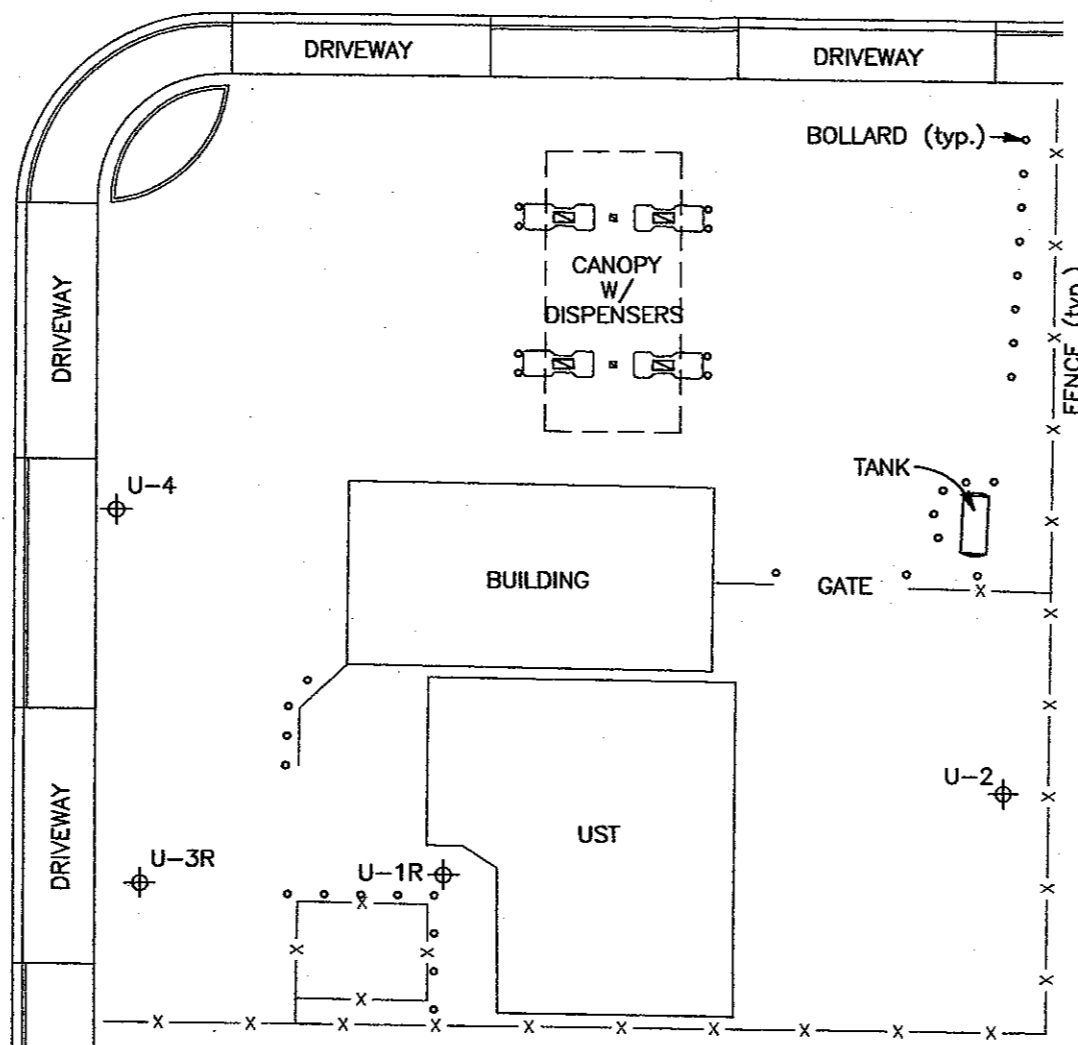
Morrow Surveying, Survey Data



APPROX. EDGE OF ROAD

USHER STREET

LEWELLING BOULEVARD



DESCRIPTION	NORTHING	EASTING	ELEV (PVC)	ELEV (BOX)
U-1R	2076434.9	6090472.0	42.65	43.11
U-2	2076447.7	6090559.2	43.65	44.15
U-3R	2076433.7	6090424.7	41.58	42.03
U-4	2076492.3	6090421.5	42.69	42.93
U-5	2076484.4	6090372.0	41.74	42.11
U-6	2076387.1	6090371.6	40.07	40.57
U-7	2076323.6	6090371.5	39.50	40.21
U-8	2076384.9	6090464.8	40.95	41.30
U-9	2076363.2	6090294.8	39.72	40.45

DESCRIPTION	LATITUDE	LONGITUDE
U-1R	37.6862331	-122.1284470
U-2	37.6862724	-122.1281463
U-3R	37.6862276	-122.1286103
U-4	37.6863881	-122.1286249
U-5	37.6863641	-122.1287953
U-6	37.6860969	-122.1287910
U-7	37.6859225	-122.1287873
U-8	37.6860955	-122.1284689
U-9	37.6860277	-122.1290548

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 2 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.
 COORDINATE DATUM IS NAD 83(CORS).
 DATUM ELLIPSOID IS GRS80.
 REFERENCE GEOID IS GEOID99.
 CORS STATIONS USED WERE FARB AND MONB.
 VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.

Monitoring Well Exhibit

Prepared For:

Delta Environmental Consultants, Inc.

76 Station 5760
 376 Lewelling Boulevard
 San Lorenzo
 Alameda County
 California



1450 Harbor Blvd. Ste. D
 West Sacramento
 California 95691
 (916) 372-8124
 curt@morrowssurveying.com

Date: 8-23-07
 Scale: 1" = 30'
 Sheet 1 of 1
 Revised:
 Field Book: MW-36
 Dwg. No. 1275-100 ct