

**ExxonMobil Environmental Services Company**  
4096 Piedmont Avenue #194  
Oakland, California 94611  
510 547 8196 Telephone  
510 547 8706 Facsimile

**Jennifer C. Sedlachek**  
Project Manager

**RECEIVED**

9:13 am, Jun 30, 2010

Alameda County  
Environmental Health

**ExxonMobil**

June 29, 2010

Mr. Jerry T. Wickham  
Alameda County Health Care Services Agency  
1311 Harbor Bay Parkway  
Alameda, California 94502-6577

Subject: Well Destruction Report  
Former Exxon RAS 73567, 3192 Santa Rita Road, Pleasanton, California  
ACHCSA File No. RO-2426

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Well Destruction Report* for the above-referenced site. The document, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, is being submitted in response to a letter from the Alameda County Health Care Services Agency dated April 29, 2010.

Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,



Jennifer C. Sedlachek  
Project Manager

Attachment: Well Destruction Report

- c: w/ attachment:  
Ms. Colleen Morf - Zone 7 Water Agency  
Valero Energy Corporation (pdf copy via e-mail to <elmreports@valero.com>)  
MHCB USA Leasing & Finance Corporation, P.O. Box 690110, San Antonio, TX 78269
- c: w/o attachment:  
Mr. Bryan Campbell - ETIC Engineering, Inc.

29 June 2010

Ms. Jennifer C. Sedlachek  
ExxonMobil Environmental Services Company  
4096 Piedmont Avenue, #194  
Oakland, California 94611

Subject: Well Destruction  
Former Exxon Retail Site 73567  
3192 Santa Rita Road, Pleasanton, California

Dear Ms. Sedlachek:

At the request of ExxonMobil Environmental Services Company, on behalf of ExxonMobil Oil Corporation, ETIC Engineering Inc. (ETIC) observed the destruction of 14 existing wells at the above-referenced site. The wells were properly destroyed in response to a letter from the Alameda County Health Care Services Agency (ACHCSA) dated 29 April 2010 (attached).

Between 7 and 9 June 2010, all existing wells MW1 through MW14 were destroyed by Woodward Drilling of Rio Vista, California (C-57 license #710079). Per the Zone 7 Groundwater Protection Ordinance, all wells were destroyed by pressure grouting the well casings with neat cement grout and the well casings were removed at 2 feet below grade.

All boreholes were then backfilled with neat cement grout to approximately 1 foot below grade, concrete was added to fill the void to the surface, and the surface was restored to match the surrounding surface conditions. Well destruction activities were observed by an inspector from Zone 7.

Waste (construction debris and water) generated during the well destruction activities was contained in 55-gallon drums and stored at the site. The waste was removed from the site on 25 June 2010 by Dillard Environmental Services and transported for disposal to Republic facility in Livermore, California, and to the InStrat, Inc. facility in Rio Vista, California.

The former locations of the wells are shown on the attached site map (Figure 1). Well construction details for the destroyed wells are summarized in the attached well completion reports. Department of Water Resources (DWR) Forms 188 are completed and attached to this letter. In addition to the DWR Forms 188, a copy of the Zone 7 well destruction permit and waste documentation are attached.

Ms. Jennifer C. Sedlachek  
ExxonMobil Environmental Services Company

29 June 2010  
Page 2

This concludes the work to be conducted on this project. Per your correspondence dated 29 April 2010, please issue a final closure letter at your earliest convenience. Thank you for your cooperation on this project.

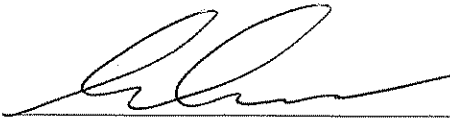
If you have any questions or comments, please contact K. Erik Appel at (925) 602-4710 ext. 21, or Bryan Campbell at ext. 24.

Sincerely,



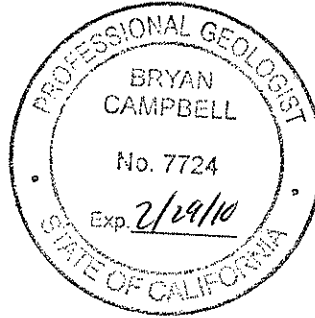
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K. Erik Appel, P. G. #8092  
Senior Project Geologist



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Bryan Campbell, P.G. #7724  
Senior Geologist

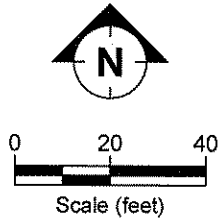
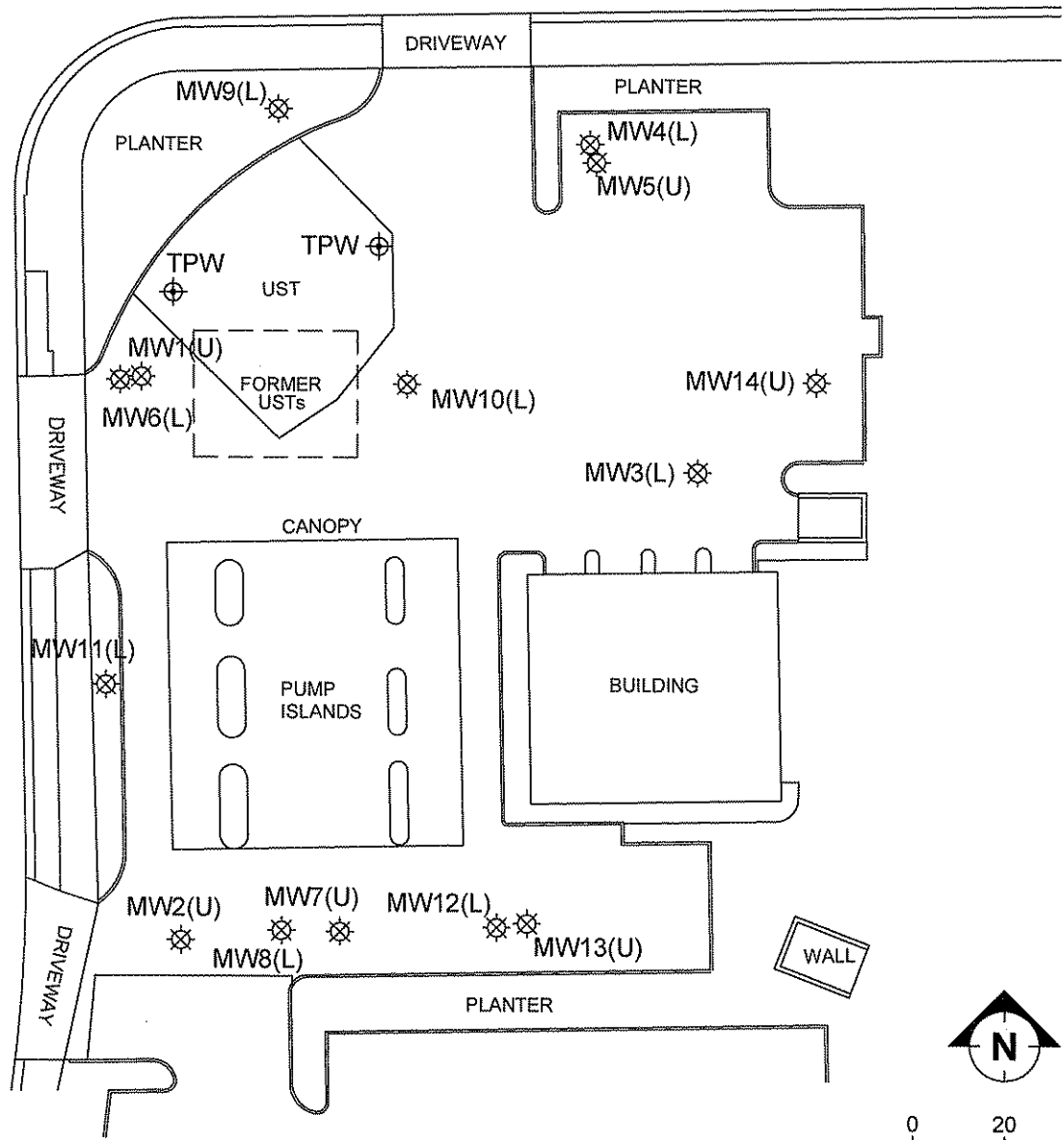


## **Figures**

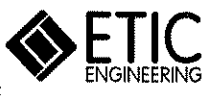
LEGEND	
	Destroyed groundwater monitoring well
	Tank pit well
(U)	Well screened in upper clay unit
(U/L)	Well screened across upper clay unit and lower sand and gravel unit
(L)	Well screened in lower sand and gravel unit

LAS POSITAS BOULEVARD

SANTA RITA ROAD



FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
 FORMER EXXON RS 73567  
 3192 SANTA RITA ROAD  
 PLEASANTON, CALIFORNIA

FIGURE:  
**1**

## **Regulatory Correspondence**

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY  
ALEX BRISCOE, Agency Director



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

April 29, 2010

Ms. Jennifer Sedlachek (*Sent via E-mail*  
*to: [jennifer.c.sedlachek@exxonmobil.com](mailto:jennifer.c.sedlachek@exxonmobil.com)*)  
Exxon Mobil  
4096 Piedmont, #194  
Oakland, CA 94611

R.J. Dold  
MHC B (USA Leasing & Finance Corporation)  
700 Louisiana Street, #3500  
Houston, TX 77002

Mr. Robert Ehlers  
Valero Energy Corporation  
685 West Third Street  
Hanford, CA 93230

Mr. Steve Asmann  
Steve Asmann Incorporated  
8099 Brittany Drive  
Dublin, CA 94568-3501

Subject: Request for Well Decommissioning, Fuel Leak Case No. RO0002426 and Geotracker Global ID T0600100539, Valero #3827, 3192 Santa Rita Road, Pleasanton, CA 94566

Dear Ms. Sedlachek:

Alameda County Environmental Health (ACEH) staff 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. Public notification of potential case closure was sent to neighboring property owners and residents on March 23, 2010. No public comments have been received to date. 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 29, 2010. A remedial action completion certificate will be issued following receipt of the documentation.

The case will be closed with the following site management requirements:

*"Case closure for the fuel leak site is granted for the current commercial land use only. If a change in land use to any residential or other conservative land use scenario occurs at this site, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans. Excavation or construction activities in the areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities."*

Well destruction permits may be obtained from the Zone 7 Water Agency (<http://www.zone7water.com>). If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org).

Sincerely,

Handwritten signature of Jerry Wickham in cursive.

Digitally signed by Jerry Wickham  
DN: cn=Jerry Wickham, o, ou,  
email=jerry.wickham@acgov.org, c=US  
Date: 2010.04.29 08:44:00 -07'00'

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

Responsible Parties  
RO0002426  
April 29, 2010, Page 2

Attachments: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Danielle Stefani, Livermore Pleasanton Fire Department, 3560 Nevada St, Pleasanton, CA 94566 (*Sent via E-mail to: [dstefani@lpfire.org](mailto: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](mailto:cdizon@zone7water.com)*)

MHCB (USA Leasing & Finance Corporation), P.O. Box 690110, San Antonio, TX 78269

Bryan Campbell, ETIC Engineering, Inc., 2285 Morello Avenue, Pleasant Hill, CA 94523 (*Sent via E-mail to: [bcampbell@eticeng.com](mailto:bcampbell@eticeng.com)*)

Donna Drogos, ACEH (*Sent via E-mail to: [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org)*)  
Jerry Wickham, ACEH

Geotracker, File



Attachment 1  
**Responsible Party(ies) Legal Requirements/Obligations**

**REPORT REQUESTS**

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 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\\_rqmts.shtml](http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.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.

<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	<b>ISSUE DATE:</b> July 5, 2005
	<b>REVISION DATE:</b> March 27, 2009
	<b>PREVIOUS REVISIONS:</b> December 16, 2005, October 31, 2005
<b>SECTION:</b> Miscellaneous Administrative Topics & Procedures	<b>SUBJECT:</b> 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](mailto: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](mailto: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.

**Well Completion Reports  
(DWR 188 Forms)**

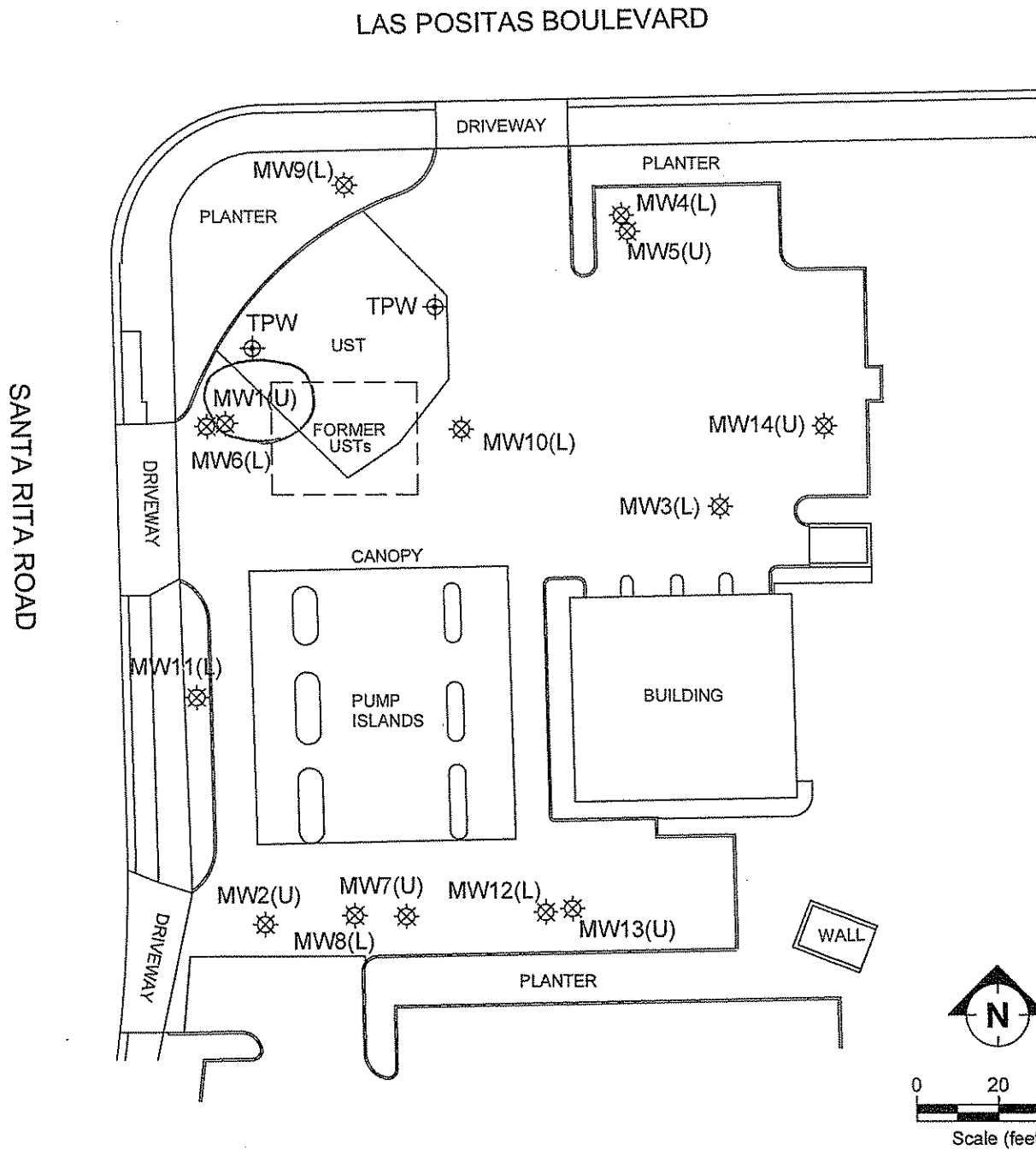
**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**LEGEND**

- ☒ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit



FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
 FORMER EXXON RS 73567  
 3192 SANTA RITA ROAD  
 PLEASANTON, CALIFORNIA

FIGURE:

1



Project No.: 2431 Boring: B3/MW1 Plate: APPENDIX  
 Site: Exxon Station 7-3567 Date: 11/12/98  
 Drill Contractor: Woodward

Sample Method: Split Spoon Geologist: STEVE M. ZIGAN  
 Drill Rig: B-57 Bore Hole Diameter: 8" Signature: *[Handwritten Signature]*  
 Location: Western corner of underground tank field Registration: R.G. 4333  
 Logged by: Dave Arndal

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
0						6" concrete	
5					CL	Clay with some silt, black, slightly damp, medium plasticity	
10	17	0					
15	22	0				trace of organic material	
20	27	0					
25	29	0				trace fine gravel, grayish-brown, wet, poor plasticity damp, medium plasticity, no gravel	
30	22	0				trace fine gravel, dark gray, poor plasticity	
35	44	0					
40						Total Depth = 36 1/2 feet Groundwater encountered at 25 feet	

Casing Diameter: 2" Slot Size: 0.020" Sand Size: #3 Grout: Portland Type I/II

**CONFIDENTIAL**

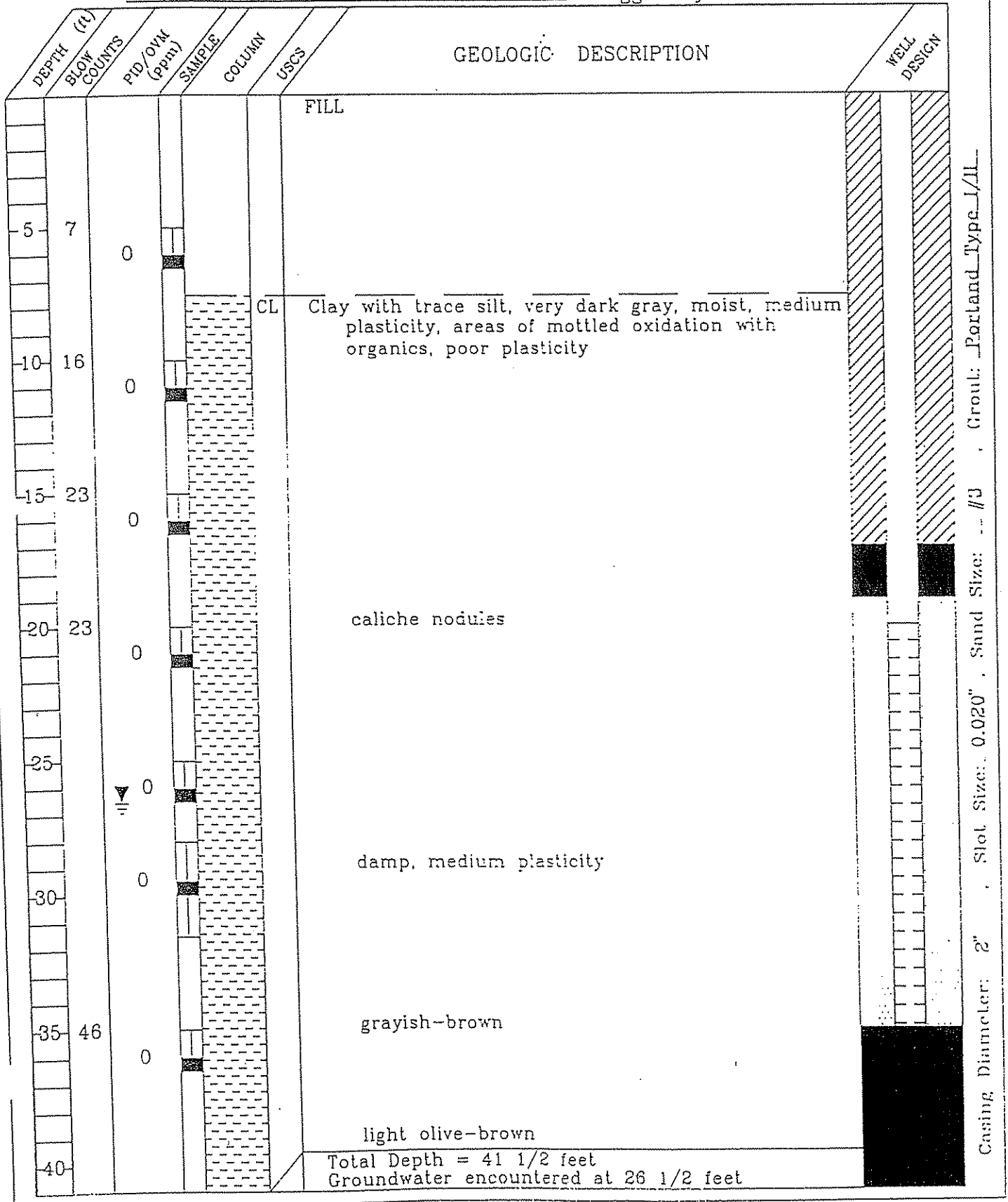
STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**



Project No.: 2431 Boring: B4/MW2 Plate: APPENDIX  
 Site: Exxon Station 7-3567 Date: 11/12/98  
 Drill Contractor: Woodward

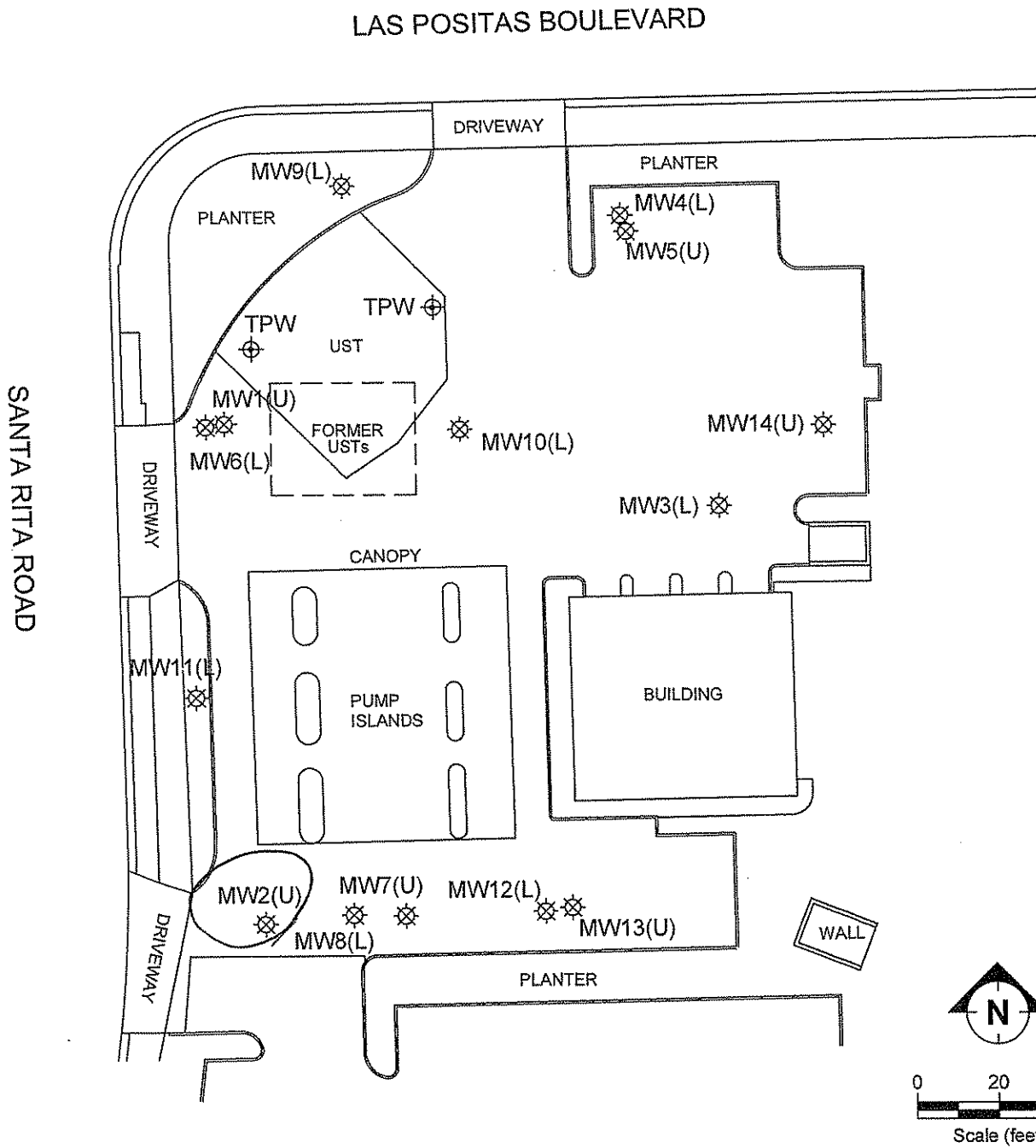
Sample Method: Split Spoon Geologist: STEVE M. ZIGAN  
 Drill Rig: B-57 Bore Hole Diameter: 8" Signature: *Steve M. Zigan*  
 Location: Southwestern corner of dispenser island canopy Registration: R.G. 4333  
 Logged by: Dave Arndal





**LEGEND**

- ☒ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit



FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
FORMER EXXON RS 73567  
3192 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

FIGURE:  
**1**

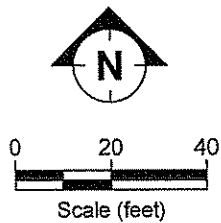
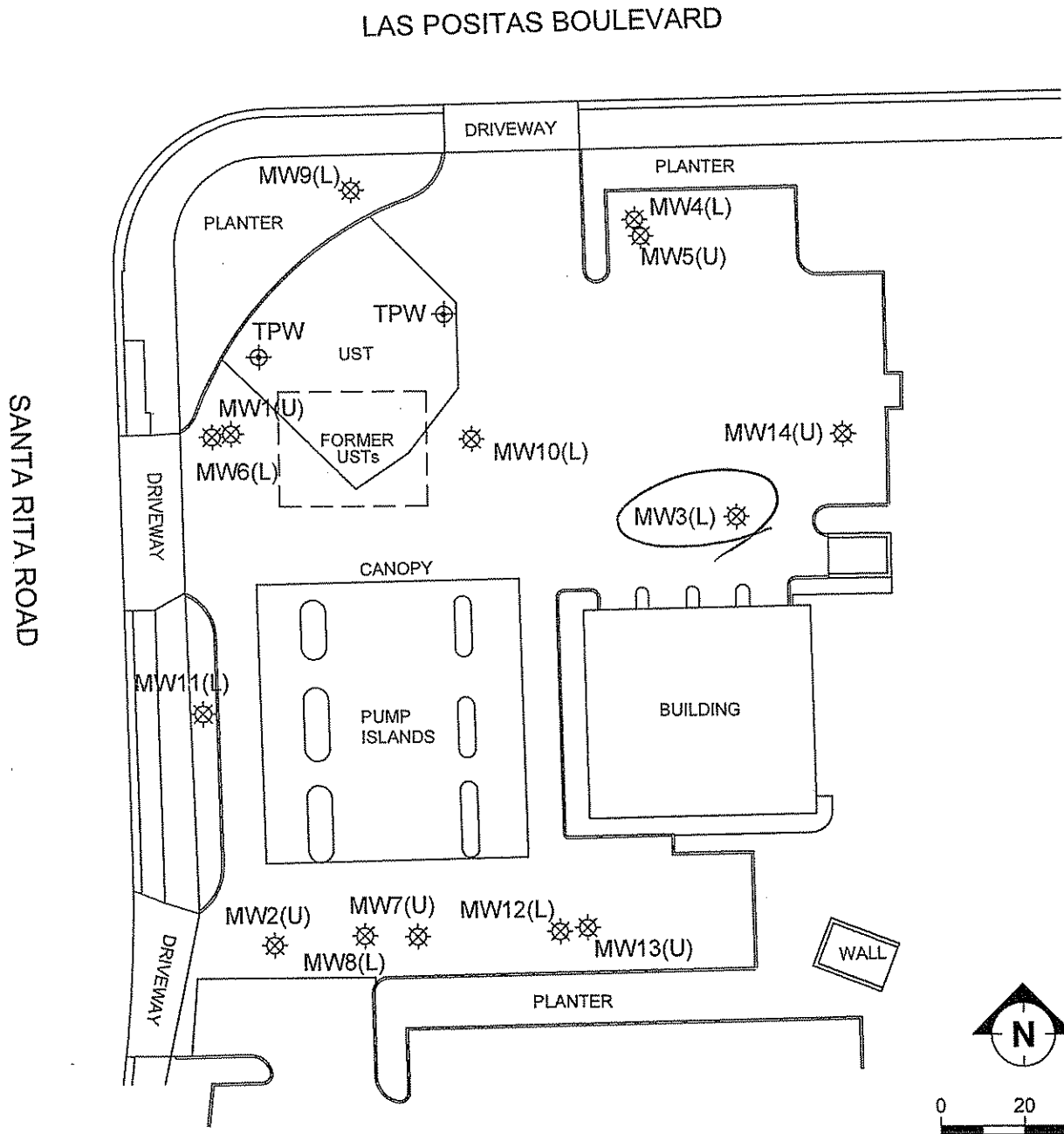
**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

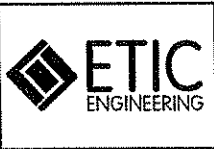
**REMOVED**

**LEGEND**

- ⊗ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit



FILENAME: SITE1207.DWG 12/11/07



**SITE MAP**  
 FORMER EXXON RS 73567  
 3192 SANTA RITA ROAD  
 PLEASANTON, CALIFORNIA

FIGURE:  
**1**



Project No.: 2431 Boring: B1/MW3 Plate: 1 OF 2  
 Site: Exxon Station 7-3567 Date: 11/11/98  
 Drill Contractor: Woodward

Sample Method: Split Spoon Geologist: STEVE M. ZIGAN  
 Drill Rig: B-57 Bore Hole Diameter: 8" Signature: *Steve M. Zigan*  
 Location: North of eastern half of station building Registration: R.G. 4333  
 Logged by: Dave Arndal

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6" concrete	
					CL	Clay with some silt, dark olive-brown, slightly damp, low plasticity	
5-34	0						
						olive-gray, high plasticity	
10-15	0						
						very dark grayish brown, medium plasticity	
15-21	0						
						slightly mottled, very dark grayish-brown and light gray, low plasticity	
20-26	0						
						trace small organics (roots)	
25-29	0						
						no organics	
30-51	0						
						olive-brown, caliche nodules up to 1/4", trace organics	
35-36	0						
40							

Casing Diameter: 2" Slot Size: 0.020" Sand Size: #J Grout: Portland Type I/II

(Continued downward on next page.)



Project No.: 2431 Boring: B1/MW3 Plate: 2 OF 2  
 Site: Exxon Station 7-3567 Date: 11/11/98  
 Drill Contractor: Woodward

Sample Method: Split Spoon Geologist: STEVE M. ZIGAN  
 Drill Rig: B-57 Bore Hole Diameter: 8" Signature: [Signature]  
 Location: North of eastern half of station building Registration: R.G. 4333  
 Logged by: Dave Arndal

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION (Continued downward from previous page.)	WELL DESIGN
40		0			CL	Clay with some silt, olive-brown, caliche nodules up to 1/4", trace organics	[Well Design Diagram]
					SC	Clayey sand, fine-grained, dark yellowish-brown, wet	
45	76	0			GP	Sandy gravel, gravel up to 3/4", fine-grained sand, dark yellowish-brown, wet	
50	76/8						
						Total Depth = 51 1/2 feet Groundwater encountered at 41 1/2 feet	
55							
60							
65							
70							
75							
80							

Casing Diameter: 8" Slot Size: 0.020" Sand Size: #10 Grout: Portland Type-1/II

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

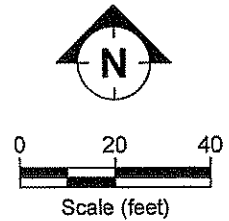
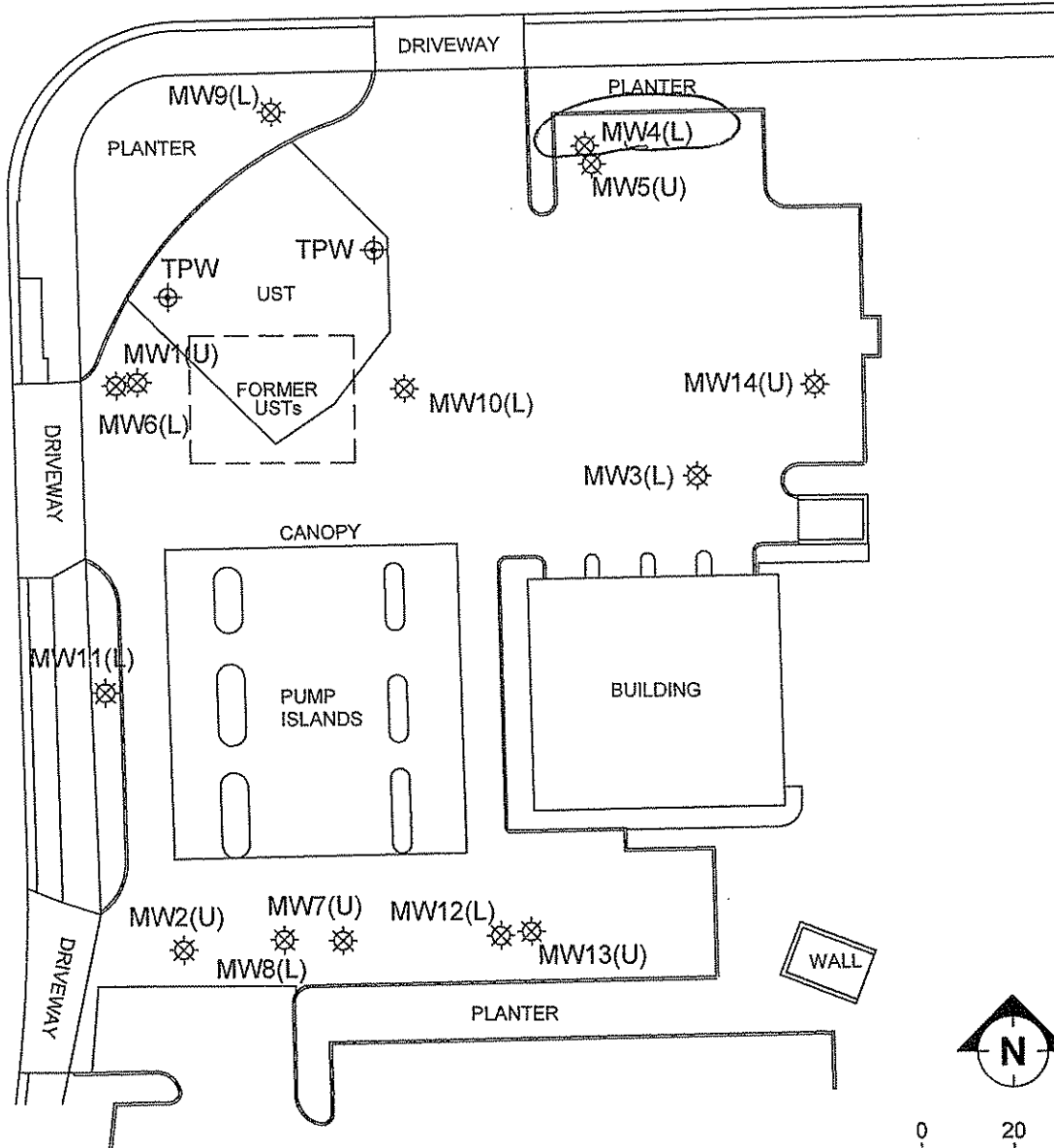
**REMOVED**

**LEGEND**

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- ⊕ Tank pit well
- (U) Well screened in upper clay unit
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- (L) Well screened in lower sand and gravel unit

**LAS POSITAS BOULEVARD**

**SANTA RITA ROAD**



FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
FORMER EXXON RS 73567  
3192 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

FIGURE:

**1**



Project No.: 2431 Boring: B2/MW4 Plate: 1 OF 2  
 Site: Exxon Station 7-3567 Date: 11/11/98  
 Drill Contractor: Woodward

Sample Method: Split Spoon Geologist: STEVE M. ZIGAN  
 Drill Rig: B-57 Bore Hole Diameter: 8" Signature: *Steve M. Zigan*  
 Location: Central northern property line Registration: R.G. 4338  
 Logged by: Jen Schulte

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
5-23	0				CL	6" concrete Clay with some silt, very dark gray, damp, medium plasticity	
10-14	0				SC	Clayey sand, dark gray, damp, low plasticity	
15-8	0				CL	Clay with some silt, dark gray, moist, medium plasticity	
20-24	0					caliche nodules, trace organics/woody fiber	
25-16	0				SC	gray with mottled oxidation Clayey sand, gray, damp, low plasticity	
30-31	0				CL	Clay with trace silt, very dark gray, moist, medium plasticity	
35-25	0					dark grayish-brown, trace organics and mottled oxidation	
40-42						light olive-brown, caliche areas	

Casing Diameter: 2" Slot Size: 0.020" Sand Size: #30 Grout: Portland Type I/II

(Continued downward on next page.)





Project No.: 2431 Boring: B2/MW4 Plate: 2 OF 2

Site: Exxon Station 7-3567 Date: 11/11/98

Drill Contractor: Woodward

Sample Method: Split Spoon Geologist: STEVE M. ZIGAN

Drill Rig: B-57 Bore Hole Diameter: 8" Signature: *Steve M. Zigan*

Location: Central northern property line Registration: R.G. 4333

Logged by: Jen Schulte

DEPTH (ft)	BLOW COUNTS	PIB/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION (Continued downward from previous page.)	WELL DESIGN
40	42	0			CL	Clay with trace silt, light olive-brown, moist, medium plasticity	
					SC	Clayey sand, fine-grained, light olive-brown, moist	
45	28	0				with grayish-brown areas	
					SW	Gravelly sand, gravel up to 1", fine-grained, light olive-brown, wet	
50	74/10"	0					
						Total Depth = 51 1/2 feet Groundwater encountered at 50 feet	
55							
60							
65							
70							
75							
80							

Casing Diameter: 2" Slot Size: 0.020", Sand Blaz. //U Grout: Portland Type I/II

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

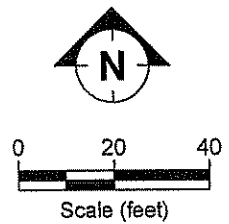
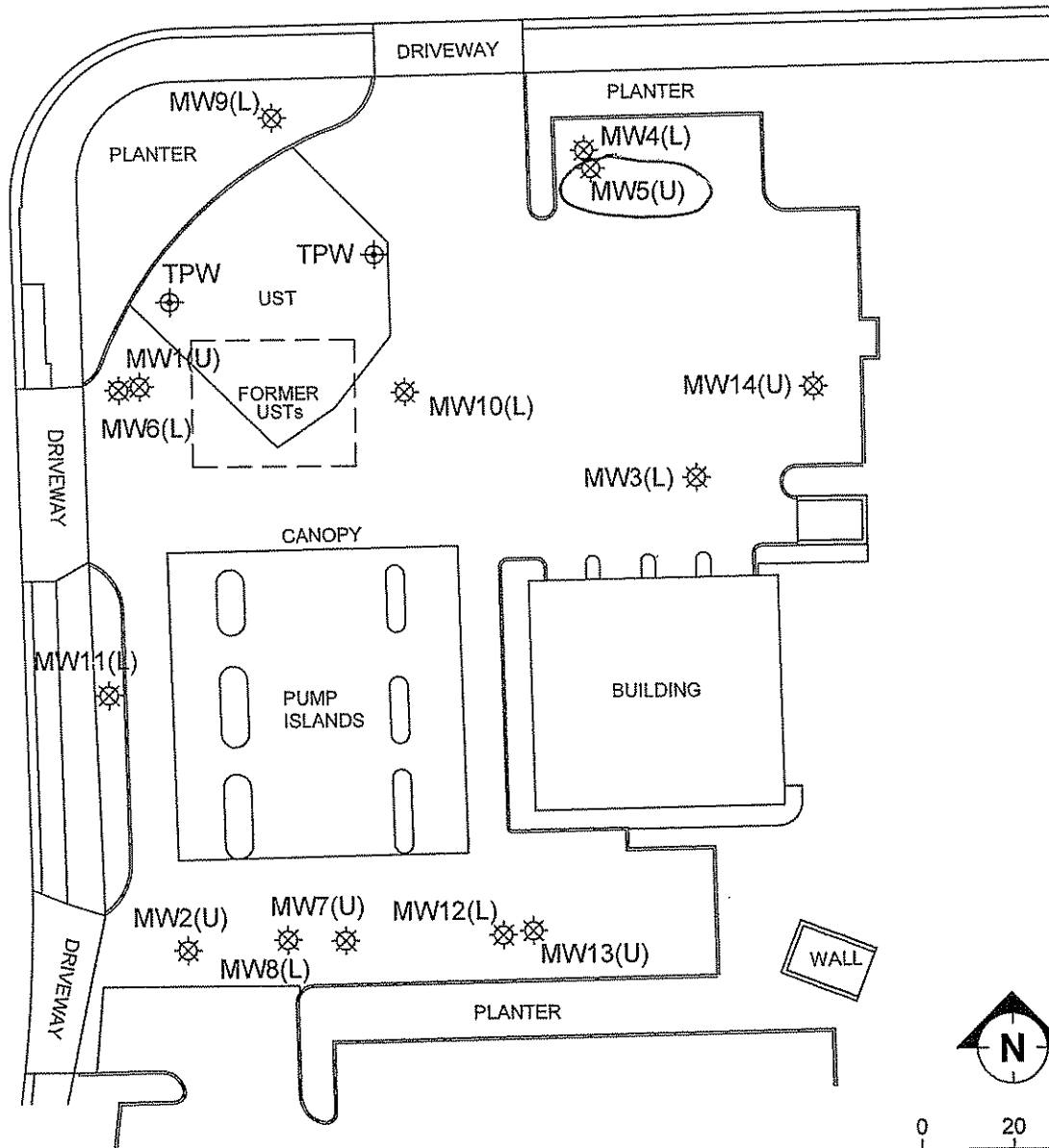
**REMOVED**

**LEGEND**

- ⊗ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit

LAS POSITAS BOULEVARD

SANTA RITA ROAD



FILENAME: SITE1207.DWG 12/11/07

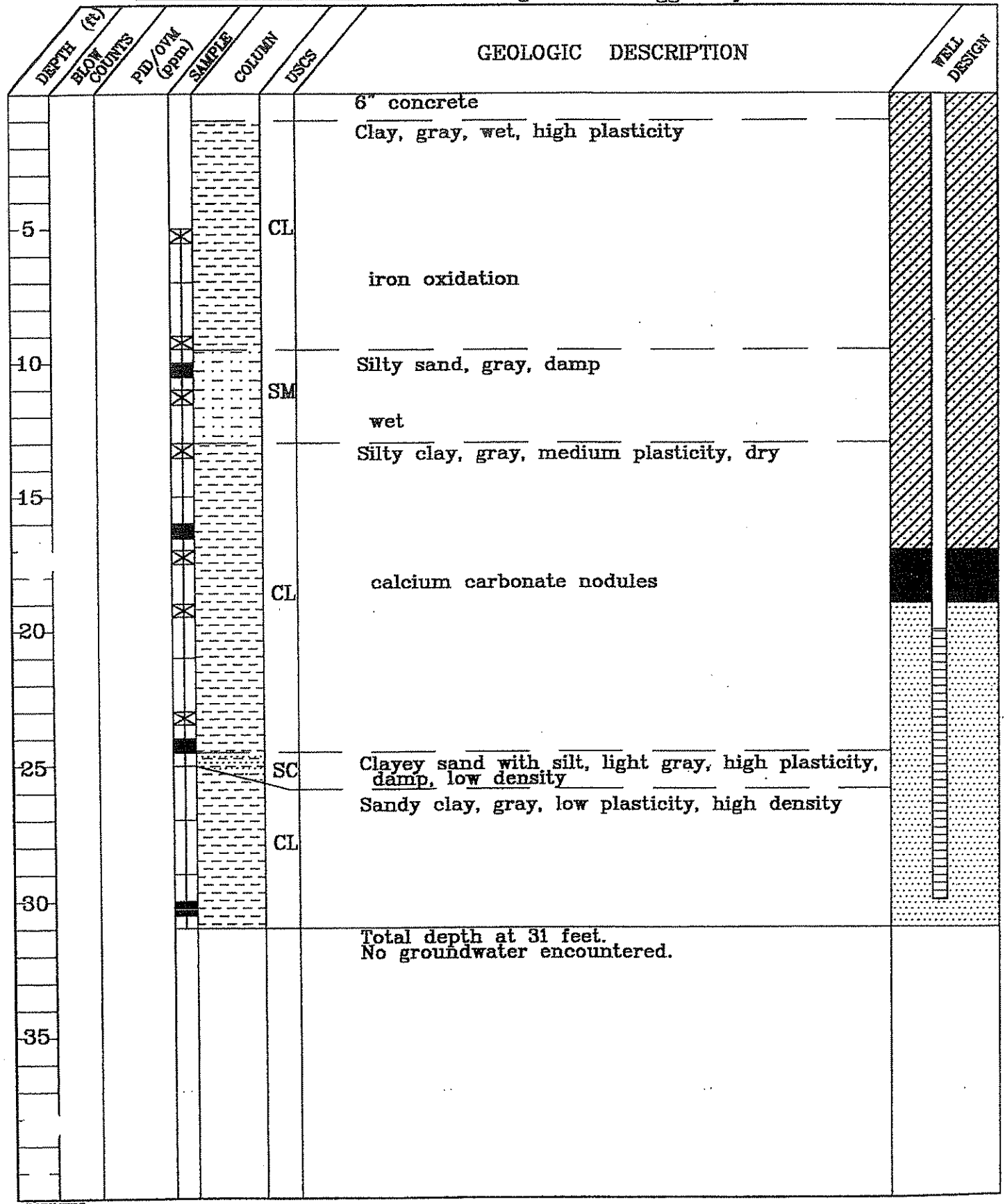


SITE MAP  
 FORMER EXXON RS 73567  
 3192 SANTA RITA ROAD  
 PLEASANTON, CALIFORNIA

FIGURE:

1

Sample Method: Continuous Geologist: JOHN B. BOBBIT  
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: *[Signature]*  
 Location: 4 Feet South of MW4 Registration: R.G. 4313  
 85 Feet North of Station Building Logged by: Tom Culig



Casing Diameter: 2" Slot Size: 0.020", Sand Size: #30 Grout: Portland Type I/II

**CONFIDENTIAL**

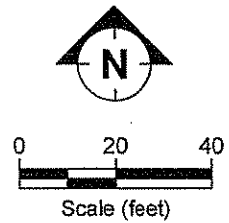
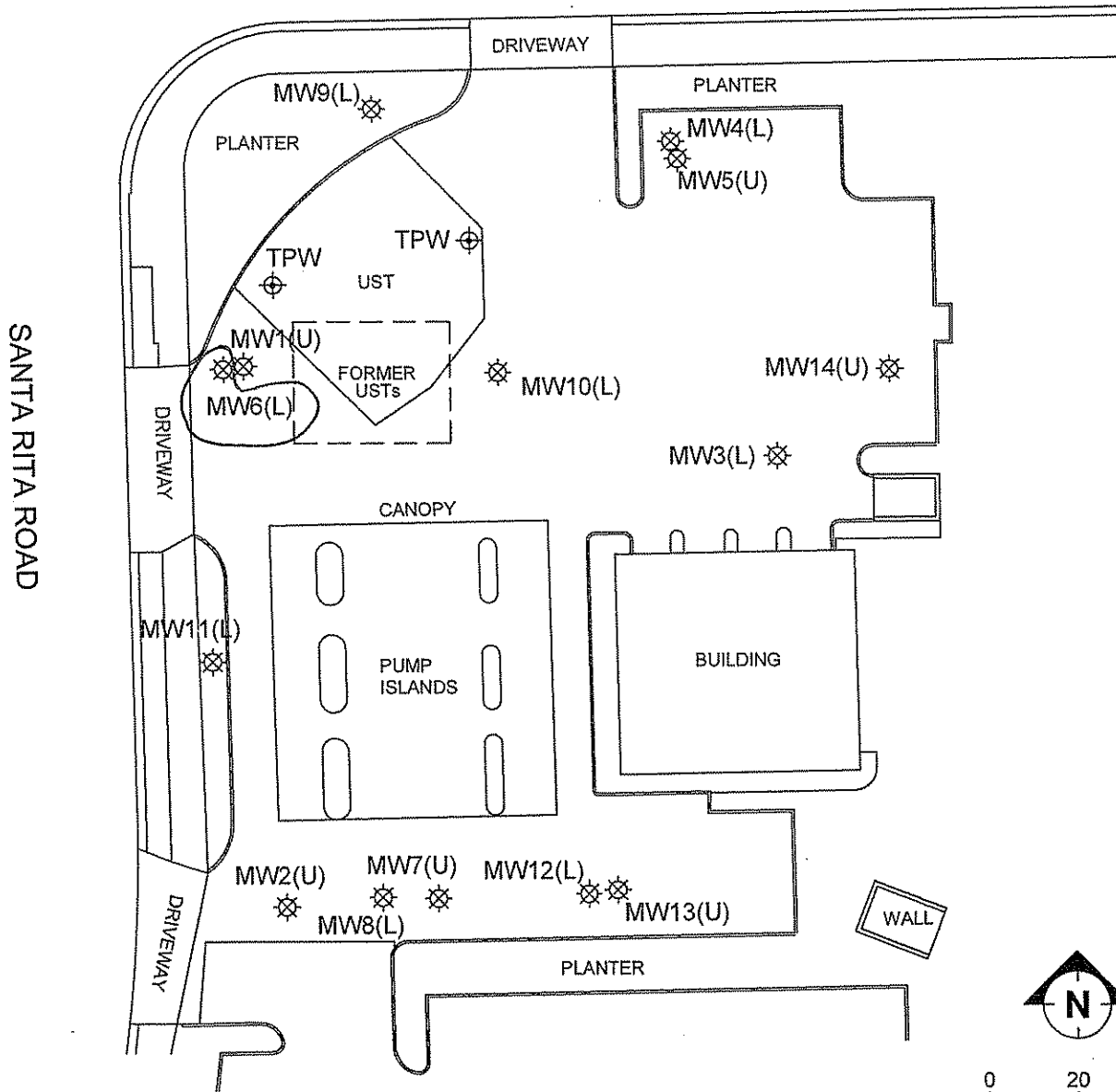
STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

**LEGEND**

- ⊗ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit

**LAS POSITAS BOULEVARD**



FILENAME: SITE1207.DWG 12/11/07



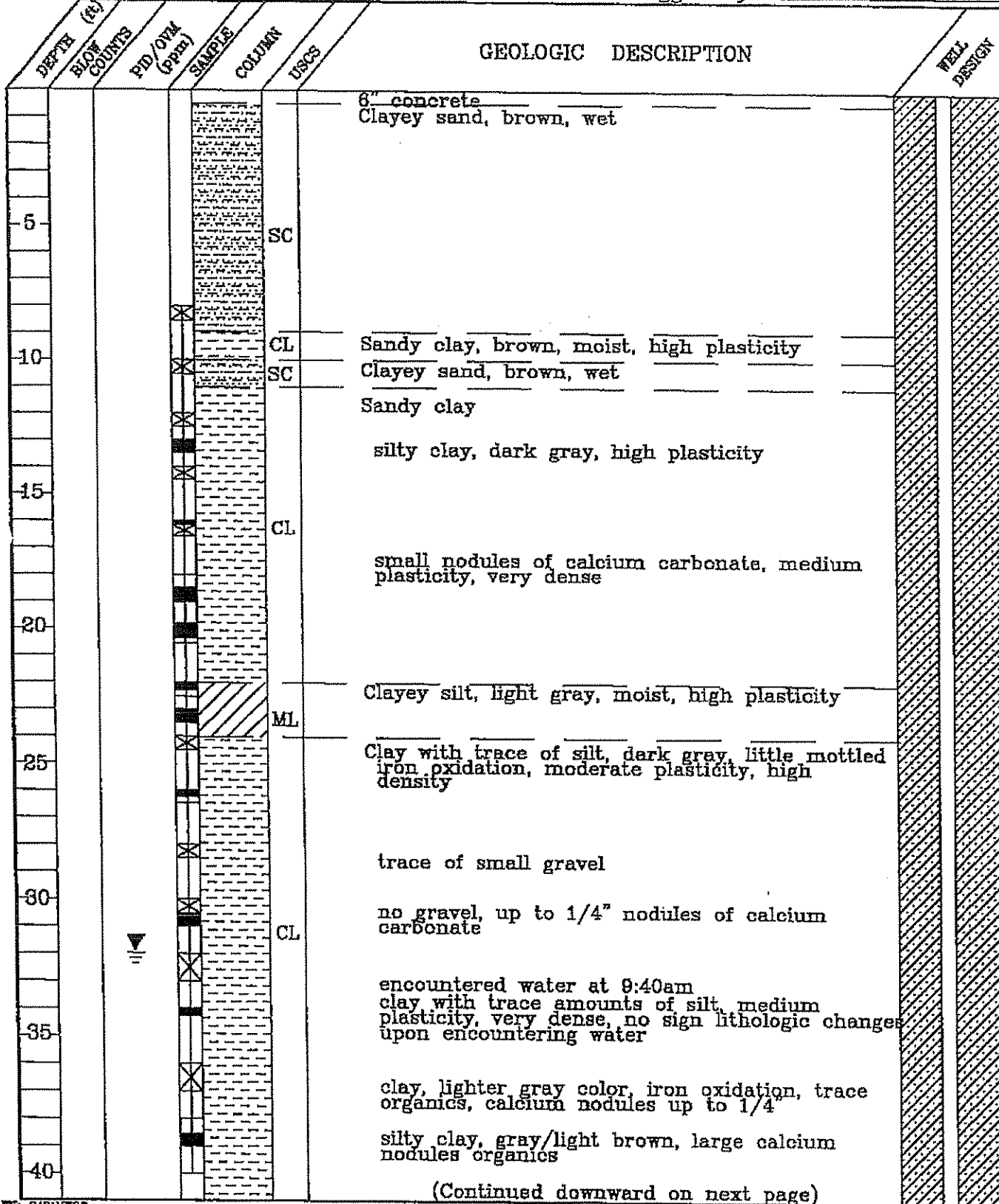
**SITE MAP**  
 FORMER EXXON RS 73567  
 3192 SANTA RITA ROAD  
 PLEASANTON, CALIFORNIA

FIGURE:  
1



Project No.: 2431 Boring: MW6 Plate: 1 OF 2  
 Site: Former Exxon Service Station 7-3587 Date: 7/19/00  
 Drill Contractor: Woodward Drilling

Sample Method: Continuous Geologist: JOHN B. BOBBITT  
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: [Signature]  
 Location: 4 Feet West of MW1 Registration: R.G. 4313  
 25 Feet East of Santa Rita Road Logged by: Tom Cullig



Casing Diameter: 2" Slot Size: 0.020" Sand Size: #3 Grout: Portland Type I/II

(Continued downward on next page)



Project No.: 2431 Boring: MW6 Plate: 2 OF 2  
 Site: Former Exxon Service Station 7-3567 Date: 7/19/00  
 Drill Contractor: Woodward Drilling

Sample Method: Continuous Geologist: JOHN B. BOBBITT  
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: *[Handwritten Signature]*  
 Location: 4 Feet West of MW1 Registration: R.G. 4313  
 25 Feet East of Santa Rita Road Logged by: Tom Culig

DEPTH (ft)	BLF COUNTS	PID/OPM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						(Continued downward from previous page) clayey silt with very fine-grained sand, gray/brown organics	
45					ML		
					SM	Silty sand, brown, high plasticity	
					SP	Sand with trace pebbles, wet, very loose with some pebbles to 1/2" increasing pebble content, angular to sub-angular	
50					SM	Silty sand with 1/4" gravel	
					GW	Sandy gravel with 1/4"-2" pebbles	
55						Total depth at 54 feet. Groundwater encountered at 32 feet.	

Casing Diameter: 2" Slot Size: 0.020" Sand Size: #30 Grout Portland Type I/II



**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

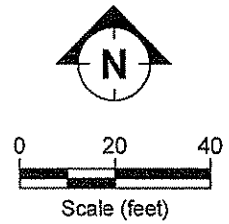
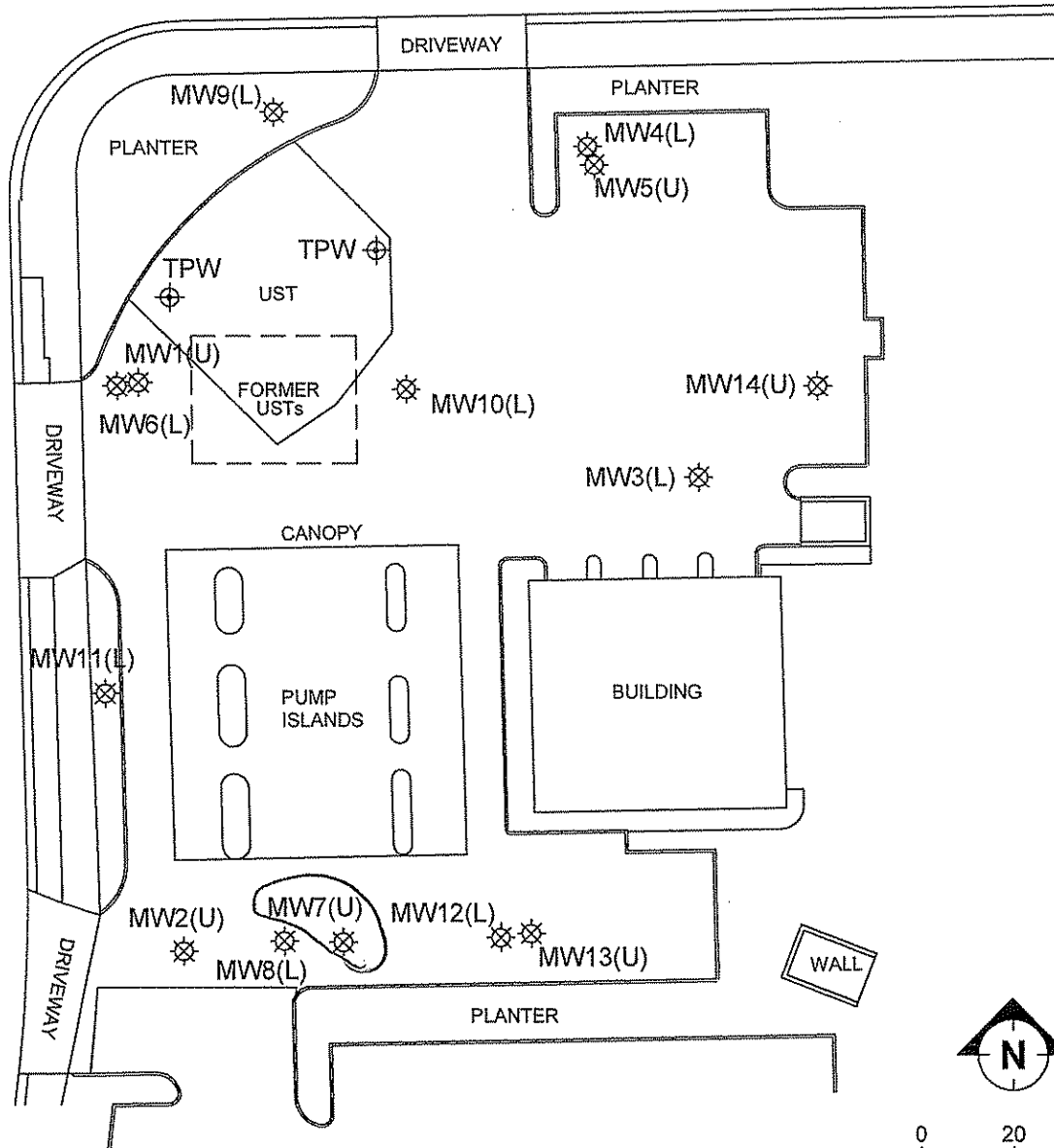
**REMOVED**

**LEGEND**

- ☼ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit

LAS POSITAS BOULEVARD

SANTA RITA ROAD



FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
FORMER EXXON RS 73567  
3192 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

FIGURE:  
**1**



Project No.: 2431 Boring: MW7 Plate: 1 OF 2  
 Site: Former Exxon Service Station 7-3567 Date: 7/18/00  
 Drill Contractor: Woodward Drilling

Sample Method: Continuous Geologist: JOHN B. ROBBITT  
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: [Signature]  
 Location: 35 Feet East of MW2 Registration: R.G. 4313  
18 Feet South of Dispenser Islands Logged by: Tom Culig

DEPTH (ft)	BLOW COUNTS	PD/OTM (opt)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6" concrete	
						Clay, brown, high plasticity	
5					CL	silty clay	
10					SM	Silty sand, black/brown, wet	
						brown color, high plasticity	
15						Silty clay, dark brown, high plasticity	
20						clay with little silt, dark gray/black, moderate plasticity, massive layer, no bedding, very dense	
						gray color, higher plasticity	
25					CL	clay with trace of silt and sand, gray/brown, wet, less dense as overlying bed	
						clay with very small traces of silt and iron oxide	
30							
35						small white nodules of calcium carbonate larger nodules clay with traces of silt, light brown	
40					SC	Clayey sandy, wet, very low density	

(Continued downward on next page)

Casing Diameter: 2" Slot Size: 0.020", Sand Size: #3, Grout: Portland Type I/II



Project No.: 2431 Boring: MW7 Plate: 2 OF 2  
 Site: Former Exxon Service Station 7-3567 Date: 7/18/00  
 Drill Contractor: Woodward Drilling

Sample Method: Continuous Geologist: JOHN B. ROBBITT  
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: *[Handwritten Signature]*  
 Location: 35 Feet East of MW2 Registration: R.G. 4313  
 18 Feet South of Dispenser Islands Logged by: Tom Culig

DEPTH (ft)	BLF COUNTS	PTD/OTM (ft)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION (Continued downward from previous page)	WELL DESIGN
					SC	higher density	
					CL	clayey sand, dark brown, wet, very loose	
45					SC	Clay with traces of sand, light brown	
					SC	Clayey sand, dark brown, wet, very loose	
					CL	Sandy clay, light brown, very dense, moderate plasticity	
					ML	Clayey silt with traces of sand, bands of iron oxide, high plasticity	
50						Total depth at 50 feet. Groundwater encountered at 38 feet.	

Casing Diameter: 2" Slot Size: 0.020", Sand Size: #30, Grout: Portland Type I/II

**CONFIDENTIAL**

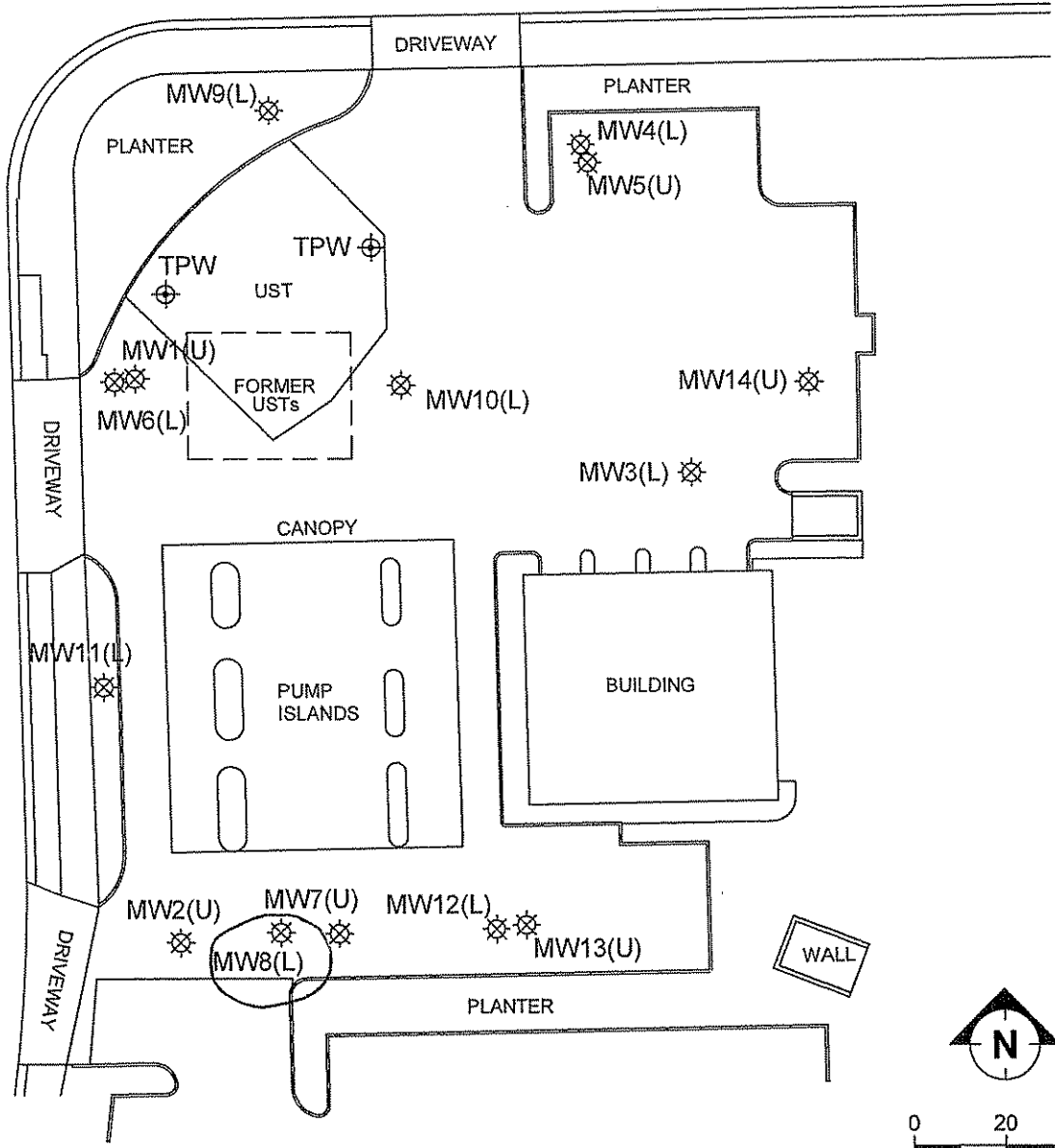
STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

LEGEND	
	Destroyed groundwater monitoring well
	Tank pit well
(U)	Well screened in upper clay unit
(U/L)	Well screened across upper clay unit and lower sand and gravel unit
(L)	Well screened in lower sand and gravel unit

LAS POSITAS BOULEVARD

SANTA RITA ROAD



FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
FORMER EXXON RS 73567  
3192 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

FIGURE:  
**1**



Project No.: 243103X Boring: MWB Plate: 1 OF 2  
 Site: 7-3567 Date: 3/16/01  
 Drill Contractor: GREG DRILLING

Sample Method: Split Spoon Geologist: John B. Bobbitt  
 Drill Rig: B-57 Bore Hole Diameter: 8 Signature: *[Signature]*  
 Location: 19 feet south of southwestern dispenser Registration: R.G. 4313  
 island. Logged by: Tom Culig

DEPTH (ft)	BLOW COUNTS	PTD/OTD (ft)	SAMPLES	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6" Concrete	
						Clay dark, brown, high plasticity	
5	3 4 4					Silty clay, brown	
10	3 4 5					Clay, dark gray, medium plasticity, oxidation	
15	4 7 8					Clay with little silt, dark brown/grey moderate plasticity, very dense	
20	5 8 12					dark grey, caliche nodules	
25	5 8 12				CL	Clay with trace of silt, gray brown, dry	
30	4 7 12					Gray, traces of iron oxide	
35						White nodules of calcium carbonate	
40	4 8 14 7 10 15					Larger nodules, higher density, wet	

Casing Diameter: 2" Slot Size: 0.020" Sand Size: #30 Grout: Portland Type I/II



Project No.: 243103X Boring: MW8 Plate: 2 of 2

Site: 7-3567 Date: 3/16/01

Drill Contractor: GREG DRILLING

Sample Method: Split Spoon Geologist: John B. Bobbitt

Drill Rig: B-57 Bore Hole Diameter: 8 Signature: *John B. Bobbitt*

Location: 19 feet south of southwest dispenser Registration: R.G. 4313

island. Logged by: Tom Culig

DEPTH (ft)	BLOW COUNTS	PD/OVA (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION (Continued downward from previous page)	WELL DESIGN
4					CL		
5					SC	Clayey sand, gray/brown, wet	
9					CL	Sandy clay, brown, wet	
45					CL	Clay with traces of silt, light brown, wet	
45					ML	Sandy clay, brown, iron oxide	
50					ML	Clayey silt with traces of sand, high plasticity	
50					ML	Increasing sand, bands of iron oxide	
55					SP	Sand with pebbles up to 1 inch subrounded, dry - moist, trace silt	
55					SW	Gravelly sand, pebbles up to 1 inch	
55					GP	Sandy gravel	
60					SW	Gravelly sand	
65					GP	Sandy gravel, gravel up to 1 inch, subrounded, wet	
65						Pebbles up to 1 3/4 inch, subangular	
70						Total depth at 70 feet. Groundwater encountered at 39.5 feet and 62 feet.	

Casing Diameter: 2" Slot Size: 0.020" Sand Size: #3 Grout: Portland Type I/II



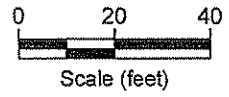
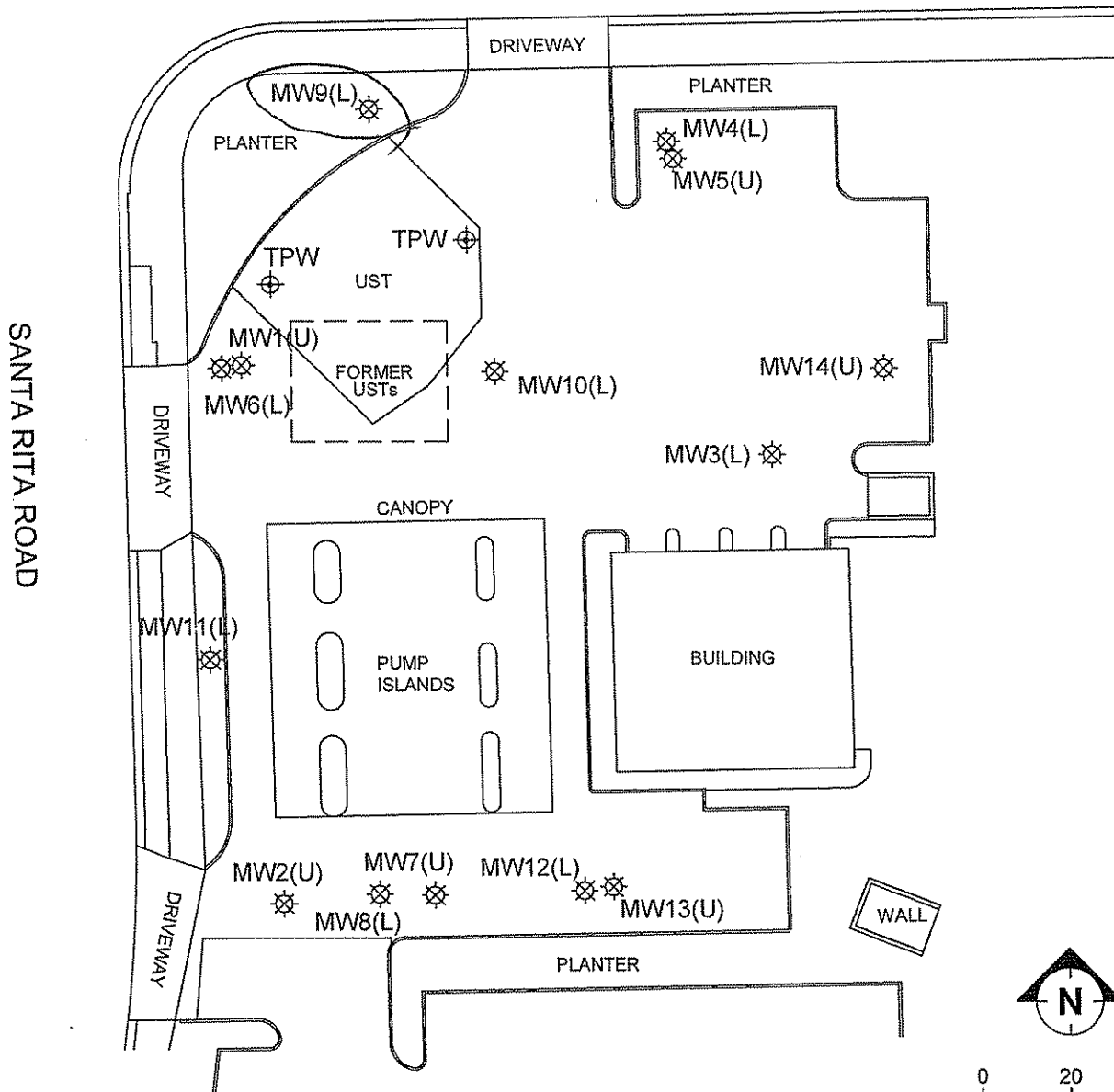
**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

LEGEND	
	Destroyed groundwater monitoring well
	Tank pit well
(U)	Well screened in upper clay unit
(U/L)	Well screened across upper clay unit and lower sand and gravel unit
(L)	Well screened in lower sand and gravel unit

LAS POSITAS BOULEVARD



FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
 FORMER EXXON RS 73567  
 3192 SANTA RITA ROAD  
 PLEASANTON, CALIFORNIA

FIGURE:

1



CLIENT ExxonMobil	SITE NUMBER 73567	LOCATION 3192 Santa Rita Road, Pleasanton, California
----------------------	----------------------	---

LOG OF SOIL BORING: **MW9**

DRILLING AND SAMPLING METHODS: Cleared to 8 feet below ground surface using a soil vacuum and hand auger. Drilled using a hollow stem auger rig utilizing 8-inch augers. Sampled with a split spoon sampler.

COORDINATES:  
ELEVATION TOP OF CASING:  
CASING BELOW SURFACE:

WATER LEVEL	▽ 47.25	▽ 43.5		
TIME	1055	1025	START TIME	FINISH TIME
DATE	12/10/08	12/11/08	0900	1530
REFERENCE	GS	TOC	DATE	DATE
			12/8/08	12/9/08

DRILLING COMPANY: Woodward Drilling, Inc.  
LICENSE NUMBER: C57-710079

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER									Grass	
										DESCRIPTION BY: E. Appel, Y. Mamiya	
										DETAILS	
				0						CLAY WITH SILT - very dark gray (2.5Y 3/1), stiff to very stiff, low plasticity, moist, roots to 0.5 feet bgs.	Single bolt, watertight, Morrison well box
				1							
				2					CL		
				3						- with rounded to subrounded gravels up to 2 inches in diameter.	
				4							
6	6			5					SM	SILTY SAND - very dark gray (2.5Y 3/1), medium dense, fine grained, moist.	2-inch diameter Schedule 40 PVC riser casing from original grade to 54 feet below ground surface
				6						CLAY WITH SILT - very dark gray (2.5Y 3/1), stiff to very stiff, low plasticity, moist.	
				7							
				8							
				9							
18		4		10					CL	- becoming stiff, medium plasticity.	Cement grout from surface to 50 feet below ground surface
	13	7		11							
		10	0.4	12							
				13							
				14							
18	18	7		15						CLAY - very dark gray (2.5Y 3/1), very stiff, medium plasticity, moist, a few caliche grains.	
		9		16							
		10	0.2	17							
				18					CL		
				19							
				20							

LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09



CLIENT  
ExxonMobil

SITE NUMBER  
73567

LOCATION  
3192 Santa Rita Road,  
Pleasanton, California

LOG OF SOIL BORING: **MW9**

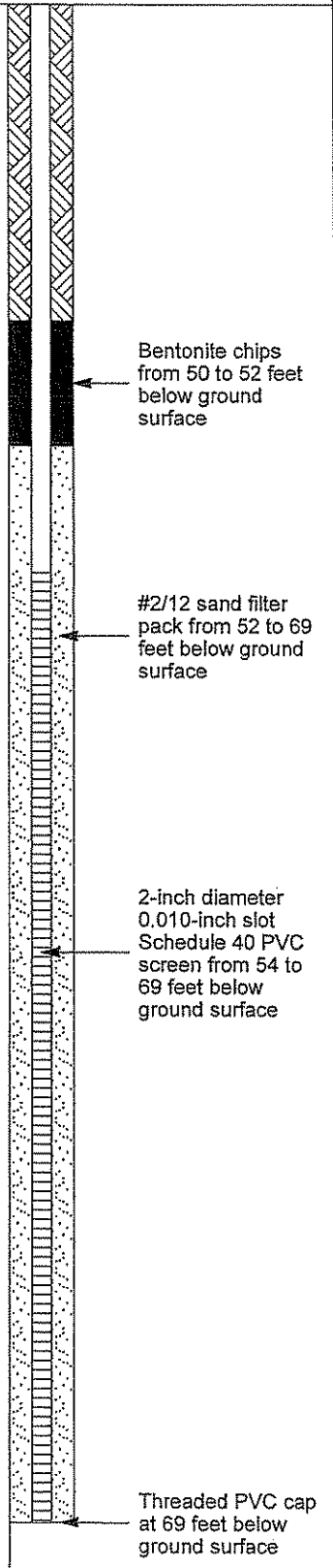
INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	LOG OF SOIL BORING: MW9
DRIVEN	RECOVER									
18	18	5		21						
		10								
		13								
			0.1	22					CL	
				23						
				24						
18	18	10		25						
		13								
		25	0.1	26						CLAY WITH SOME SILT - very dark grayish brown (2.5Y 3/2), hard, low plasticity, moist.
				27						
				28						
				29						
18	18	6		30						
		12								
		8	0.1	31						-becoming very stiff to stiff.
				32						
				33						
				34						
18	18	10		35						
		10								
		14	0.2	36						- becoming dark grayish brown (2.5Y 4/2), very stiff.
				37						
				38						
				39						
18	18	7		40						
		7								
		11	0.1	41						- becoming stiff to very stiff.
				42						
				43						
				44						
				45						

LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09

LOG OF SOIL BORING:  
**MW9**

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE WATER SAMPLE SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG OF SOIL BORING: <b>MW9</b>
DRIVEN	RECOVER						
18	18	17		46			
		17					
		13	0.0	47		CL	- becoming olive brown (2.5Y 4/4).
18	18	3		48			
		3					
		12	0.0	49		GC	CLAYEY GRAVEL - olive brown (2.5Y 4/4), medium dense, rounded to well-rounded, up to 1-inch in diameter, moist.
18	15	7		50		CL	CLAY WITH SOME SILT - olive brown (2.5Y 4/4), stiff, low to medium plasticity, very moist.
		14		51			
		20	0.0	52		SC	SANDY GRAVEL WITH CLAY / GRAVELLY SAND WITH CLAY - olive brown (2.5Y 4/4), medium dense to dense, fine to coarse grained sand, subrounded gravels up to 1-inch in diameter, wet.
18	18	9		53		CL	CLAY WITH SOME SILT - olive brown (2.5Y 4/4), stiff, low to medium plasticity, very moist.
		26					
		40	0.0	54		SC	SANDY GRAVEL WITH CLAY / GRAVELLY SAND WITH CLAY - olive brown (2.5Y 4/4), very dense, fine to coarse grained sand, subrounded gravels up to 1-inch in diameter, wet.
18	16	6		55		CL	CLAY WITH SOME SILT - olive brown (2.5Y 4/4), stiff, low to medium plasticity, very moist.
		12		56			
		20	0.0	57			WELL GRADED SAND WITH SOME GRAVEL - dark brown (10YR 2/3) medium dense, fine to coarse grained, subangular to subrounded gravels up to 1-inch in diameter, wet.
18	14	4		58			
		12					
		23	0.3	59			- becoming dense.
12	9	9		60			
		50@6"	0.2	61			- becoming very dense.
18	10	11		62		SW	
		16		63			- decreasing gravel content, dense, fine to medium grained sand.
		25		64			
18	13	9		65			
		14		66			
		36	0.1	67			
12	8	12		68			- becoming very dense.
		50@6"	0.1	69			Boring terminated at 69 feet below ground surface.
				70			

LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09



**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

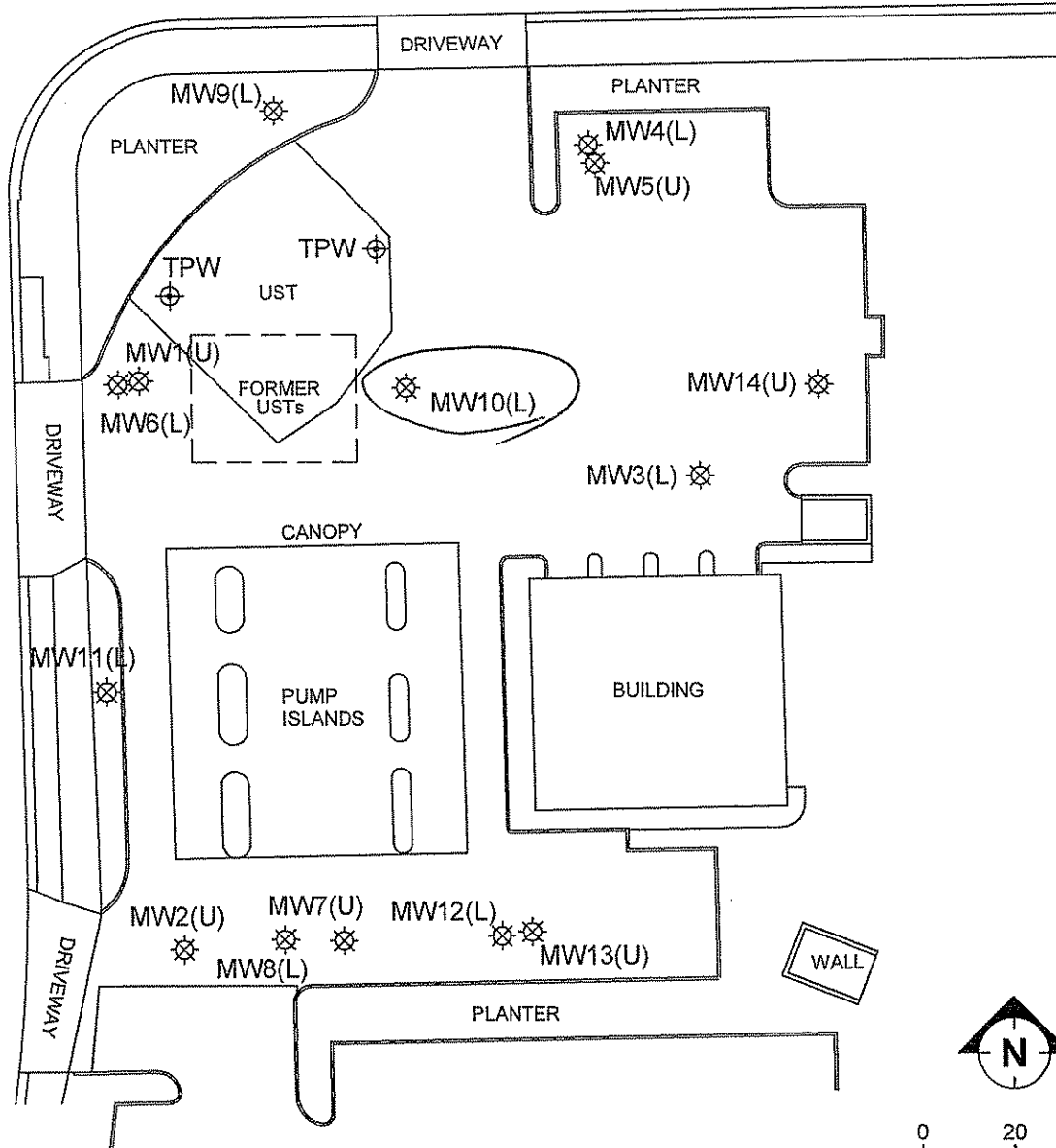
**REMOVED**

**LEGEND**

- ☼ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit

**LAS POSITAS BOULEVARD**

**SANTA RITA ROAD**



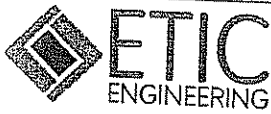
FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
FORMER EXXON RS 73567  
3192 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

FIGURE:

1



CLIENT ExxonMobil	SITE NUMBER 73567	LOCATION 3192 Santa Rita Road, Pleasanton, California
----------------------	----------------------	---

LOG OF SOIL BORING: **MW10**

DRILLING AND SAMPLING METHODS: Cleared to 8 feet below ground surface using a soil vacuum and hand auger. Drilled using a hollow stem auger rig utilizing 8-inch augers. Sampled with a split spoon sampler.

COORDINATES:  
ELEVATION TOP OF CASING:  
CASING BELOW SURFACE:

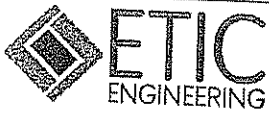
WATER LEVEL	▽ 48.3	▽ 46.5		
TIME	1055	0805		
DATE	12/9/08	12/10/08		
REFERENCE	GS	TOC		
			START TIME 1100	FINISH TIME 1500
			DATE 12/8/08	DATE 12/9/08

DRILLING COMPANY: Woodward Drilling, Inc.  
LICENSE NUMBER: C57-710079

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER								Concrete	
				0					DESCRIPTION BY: E. Appel	<p>DETAILS</p> <ul style="list-style-type: none"> <li>Single bolt, watertight, Morrison well box</li> <li>2-inch diameter Schedule 40 PVC riser casing from original grade to 52 feet below ground surface</li> <li>Cement grout from surface to 48 feet below ground surface</li> </ul>
				1			AC/AB	<p>CONCRETE - to 0.5 feet below ground surface.</p> <p>AGGREGATE BASE - from 0.5 to 1 feet below ground surface.</p> <p>CLAY WITH SILT - very dark gray (2.5Y 3/1), very stiff, medium plasticity, moist.</p>		
				2						
				3						
				4						
6	6			5			CL	<p>- occasional subrounded to rounded gravels up to 2 inches in diameter.</p>		
				6						
				7						
				8						
				9						
18	18	3		10			ML	<p>CLAYEY SILT - dark olive gray (5Y 3/2), medium stiff, low plasticity to non-plastic, moist.</p>		
		3		11						
		4	77.6	12			CL	<p>CLAY WITH SILT - very dark gray (2.5Y 3/1), medium stiff, medium plasticity, moist.</p>		
				13						
				14						
18	13	3		15			SC	<p>CLAYEY SAND - brown (10YR 4/3), medium dense, fine to medium grained, very moist.</p>		
		4		16						
		9	81.1	17			CL	<p>SILTY CLAY - very dark gray (2.5Y 3/1), stiff, medium plasticity, moist.</p>		
				18						
				19			CL	<p>CLAY WITH SILT - black (2.5Y 2.5/1), medium stiff to stiff, moderate plasticity, moist, caliche</p>		
				20						

LOG OF SOIL .JING 7-3567.GPJ ETIC.GDT 1/22/09





CLIENT  
ExxonMobil

SITE NUMBER  
73567

LOCATION  
3192 Santa Rita Road,  
Pleasanton, California

LOG OF SOIL BORING:

**MW10**

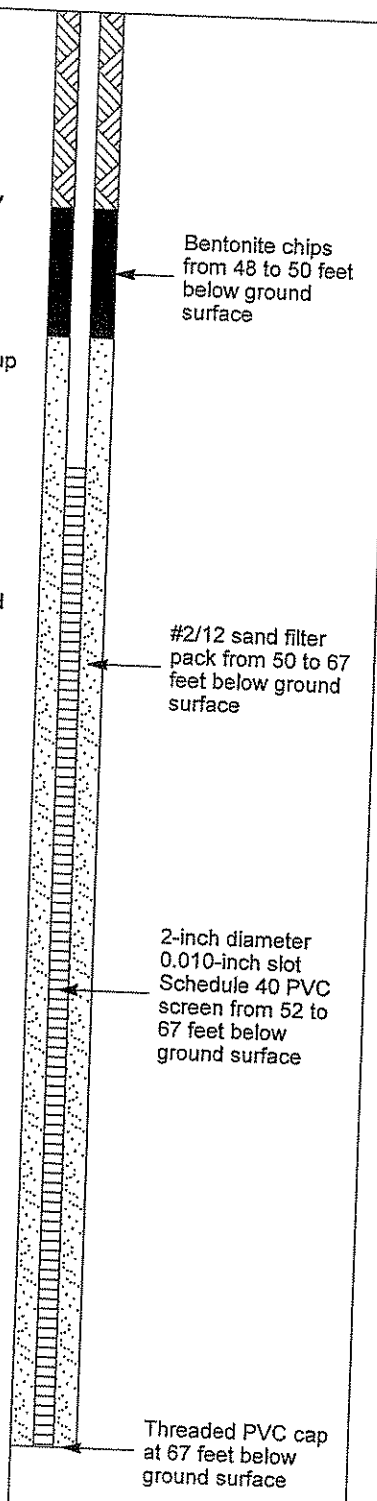
INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG OF SOIL BORING: MW10
DRIVEN	RECOVER								
18	15	5	17.2	21				stringers.	
		5		22					
		5		23					
				24					
18		4	37.0	25				- becoming very stiff, diminishing caliche.	
		10		26					
	6	15		27					
				28					
				29					
18	18	6	38.9	30				- becoming dark grayish brown (2.5Y 4/2).	
		9		31					
		12		32					
				33					
				34					
18	18	5	10.5	35				- diminishing silt content, caliche nodules up to 0.25 inches in diameter.	
		10		36					
		12		37					
				38					
				39					
18	18	7	59.9	40				- increasing silt content, stiff to very stiff, no caliche.	
		7		41					
		11		42					
				43					
				44					
				45					

LOG OF SOIL .JING 7-3567.GPJ ETIC.GDT 1/22/09

LOG OF SOIL BORING:

**MW10**

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG OF SOIL BORING: MW10
DRIVEN	RECOVER								
18	18	11		46				CL - becoming very stiff.	
		13		47					
		17	19.0	48				CLAYEY SAND - light olive brown (2.5Y 5/3), very dense, medium to coarse grained, very moist.	
18	14	38	16.5	49					
		50@2		50				POORLY GRADED SAND WITH GRAVEL - dark olive brown (2.5Y 3/3), very dense, fine to coarse grained sand, subangular to subrounded gravels up to 2 inches in diameter, wet.	
12	12	14		51					
		50@6		52				CLAY WITH SILT - dark grayish brown (2.5Y 4/2), medium stiff to stiff, moderate plasticity, moist.	
12	11	22	1.3	53					
		50@5"		54				POORLY GRADED SAND WITH GRAVEL AND SOME CLAY - dark olive brown (2.5Y 3/3), very dense, medium grained, subangular to subrounded gravels up to 2 inches in diameter, wet.	
18	15	7		55					
		14		56				WELL GRADED SAND WITH GRAVEL - dark olive brown (2.5Y 4/2), very dense, fine to coarse grained, angular to subangular gravels up to 1 inch in diameter.	
		29	0.8	57					
18	6	5		58				CLAY WITH SILT - dark grayish brown (2.5Y 4/1), medium stiff to stiff, moderate plasticity, wet.	
		9		59					
		20		60				POORLY GRADED SAND WITH GRAVEL AND SOME CLAY - dark olive brown (2.5Y 3/3), very dense, coarse grained, subangular to subrounded gravels up to 2 inches in diameter, wet.	
12	8	28	1.0	61					
		50@2		62				CLAY WITH SILT - dark grayish brown (2.5Y 4/1), medium stiff to stiff, moderate plasticity, wet.	
18	15	5		63					
		5		64				POORLY GRADED SAND WITH GRAVEL AND SOME CLAY - dark olive brown (2.5Y 3/3), very dense, coarse grained, subangular to subrounded gravels up to 2 inches in diameter, wet.	
		15	0.8	65					
18	15	4		66				Boring terminated at 67 feet below ground surface.	
		7		67					
		9		68					
				69					
				70					



LOG OF SOIL .ING 7-3567.GPJ ETIC.GDT 1/22/09

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

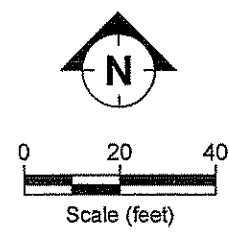
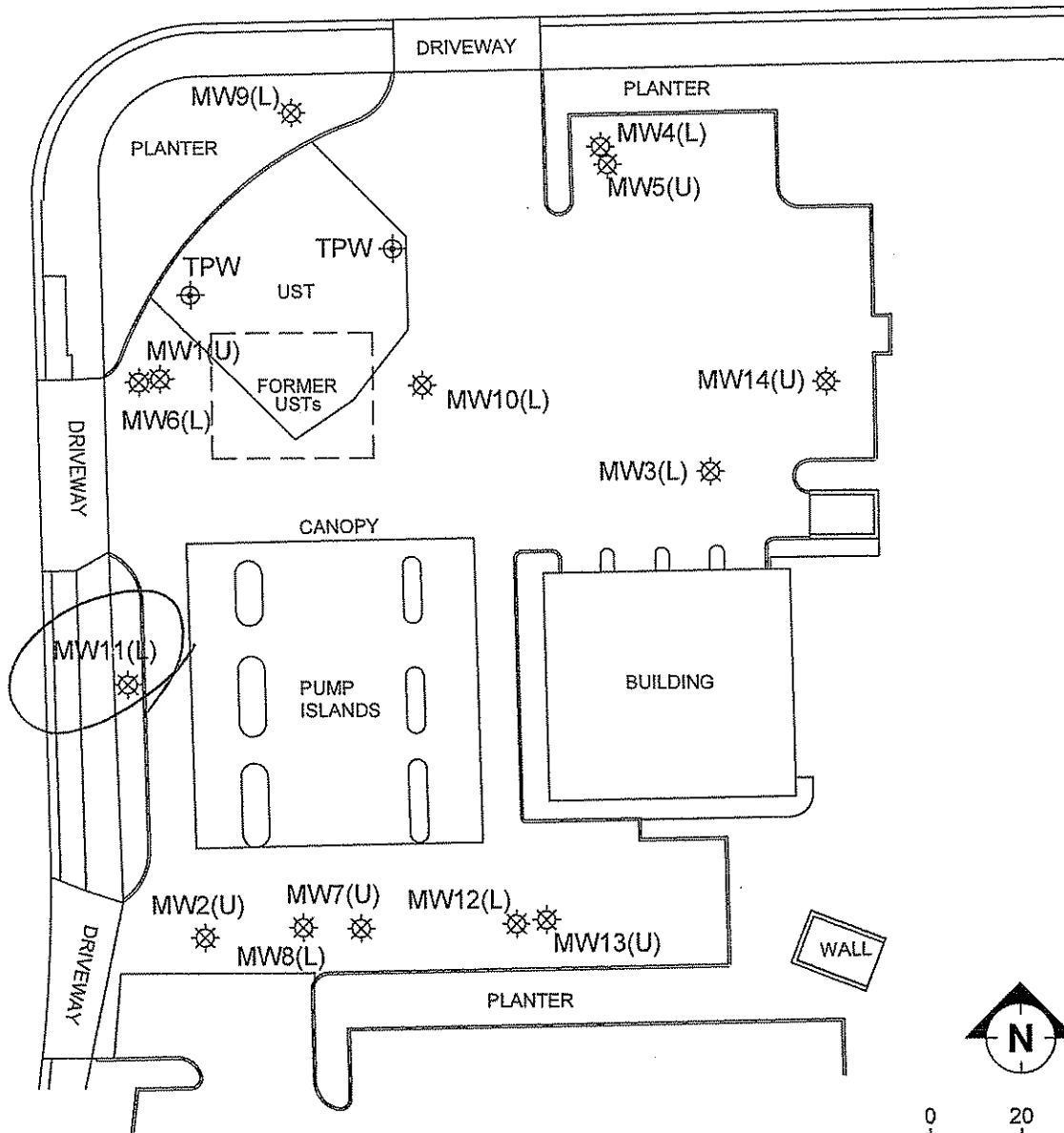
**REMOVED**

**LEGEND**

- ☒ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit

**LAS POSITAS BOULEVARD**

**SANTA RITA ROAD**



FILENAME: SITE1207.DWG 12/11/07



**SITE MAP**  
FORMER EXXON RS 73567  
3192 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

FIGURE:

**1**



CLIENT ExxonMobil	SITE NUMBER 73567	LOCATION 3192 Santa Rita Road, Pleasanton, California
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LOG OF SOIL BORING: **MW11**

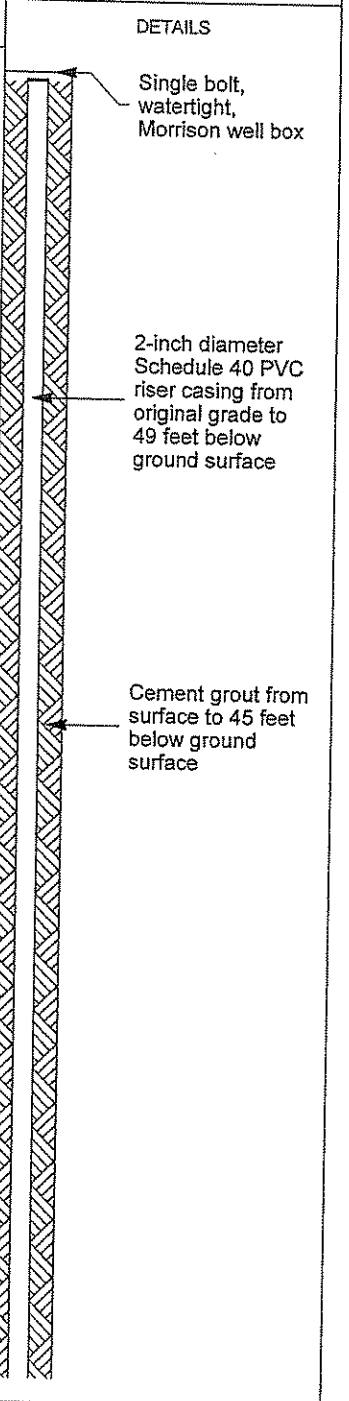
DRILLING AND SAMPLING METHODS: Cleared to 8 feet below ground surface using a soil vacuum and hand auger. Drilled using a hollow stem auger rig utilizing 8-inch augers. Sampled with a split spoon sampler.

COORDINATES:  
ELEVATION TOP OF CASING:  
CASING BELOW SURFACE:

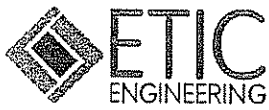
WATER LEVEL	40.0			START TIME	FINISH TIME
TIME	0943			0845	1420
DATE	12/15/08			DATE	DATE
REFERENCE	GS			12/9/08	12/15/08

DRILLING COMPANY: Woodward Drilling, Inc.  
LICENSE NUMBER: C57-710079

INCHES				DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING							Grass	
				0					ML	DESCRIPTION BY: Y. Mamiya	
				1					SP	SANDY SILT WITH CLAY - dark brown (10YR 3/3), soft, low plasticity, fine grained sand, moist.	
				2						SAND WITH CLAY - dark gray (5Y 4/1), non-plastic, fine to medium grained, moist.	
				3						SILTY CLAY - gray (2.5Y 5/1), soft, medium plasticity, moist.	
				4							
6	6			5					CL	- becoming medium stiff.	
				6							
				7							
				8							
				9							
18	18	3		10						SILTY CLAY - very dark gray (5Y 3/1), stiff, low plasticity, moist.	
		4		11							
		9	0.2	12							
				13							
				14							
18		6		15					CL		
		7		16						- becoming very stiff.	
	6	12		17							
				18							
				19							
				20							



LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09



CLIENT  
ExxonMobil

SITE NUMBER  
73567

LOCATION  
3192 Santa Rita Road,  
Pleasanton, California

INCHES				DEPTH (feet)	AIR SAMPLE WATER SAMPLE SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG OF SOIL BORING: <b>MW11</b>
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING				
18	17	5	0.1	21	[X]	[Hatched Pattern]	CLAY WITH SOME SILT - very dark gray (2.5Y 3/1), stiff, medium plasticity, moist, caliche.
		6		22			
		10		23			
				24			
18	18	10	0.3	25	[X]	[Hatched Pattern]	- becoming very dark grayish brown (2.5Y 3/2), hard.
		10		26			
		30		27			
				28			
				29			
18	18	6	0.2	30	[X]	[Hatched Pattern]	- becoming dark grayish brown (2.5Y 4/2), very stiff, pervasive caliche.
		12		31			
		30		32			
				33			
				34			
18	18	7	0.2	35	[X]	[Hatched Pattern]	- becoming dark grayish brown (2.5Y 4/2), very stiff, pervasive caliche.
		13		36			
		17		37			
				38			
				39			
18	18	5	0.2	40	[X]	[Hatched Pattern]	CLAYEY SILT - olive brown (5Y 4/3), very stiff, low plasticity, very moist to wet.
		9		41			
		10		42			
				43			- trace of fine grained sand.
				44			
				45			

LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09

INCHES				DEPTH (feet)	AIR SAMPLE WATER SAMPLE SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG OF SOIL BORING: <b>MW11</b>
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING				
18	18	5 5 15	0.2	46	X	ML	SILT WITH SOME SAND - olive brown (2.5Y 4/1), very stiff, low plasticity, fine grained sand, very moist to wet.
				47			
18	18	8 22 30		48	X		POORLY GRADED SAND WITH SOME GRAVELS - very dark grayish brown (10YR 3/2), dense, fine to medium grained, gravels up to 1.5 inches in diameter, wet.
				49	X		
				50		SP	
12	5	9 50@6"		51	X		
				52			
12	10	20 50@6"		53	X		SANDY GRAVEL - very dark grayish brown (10YR 3/2), very dense, fine to coarse grained sand, subrounded gravels up to 2 inches in diameter, wet.
				54			
				55		GP	
12	0	12 50@6"		56			
				57			
12	12	12 50@6"		58	X		WELL GRADED SAND - very dark grayish brown (10YR 3/2), very dense, fine to coarse grained, wet.
				59			
				60			
12	0	19 50@6"		61		SW	
				62			
6	6	50@6"		63	X		
				64			Boring terminated at 64 feet below ground surface.
				65			
				66			
				67			
				68			
				69			
				70			

Bentonite chips from 45 to 47 feet below ground surface

#2/12 sand filter pack from 47 to 64 feet below ground surface

2-inch diameter 0.010-inch slot Schedule 40 PVC screen from 49 to 64 feet below ground surface

Threaded PVC cap at 64 feet below ground surface

LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09

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STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

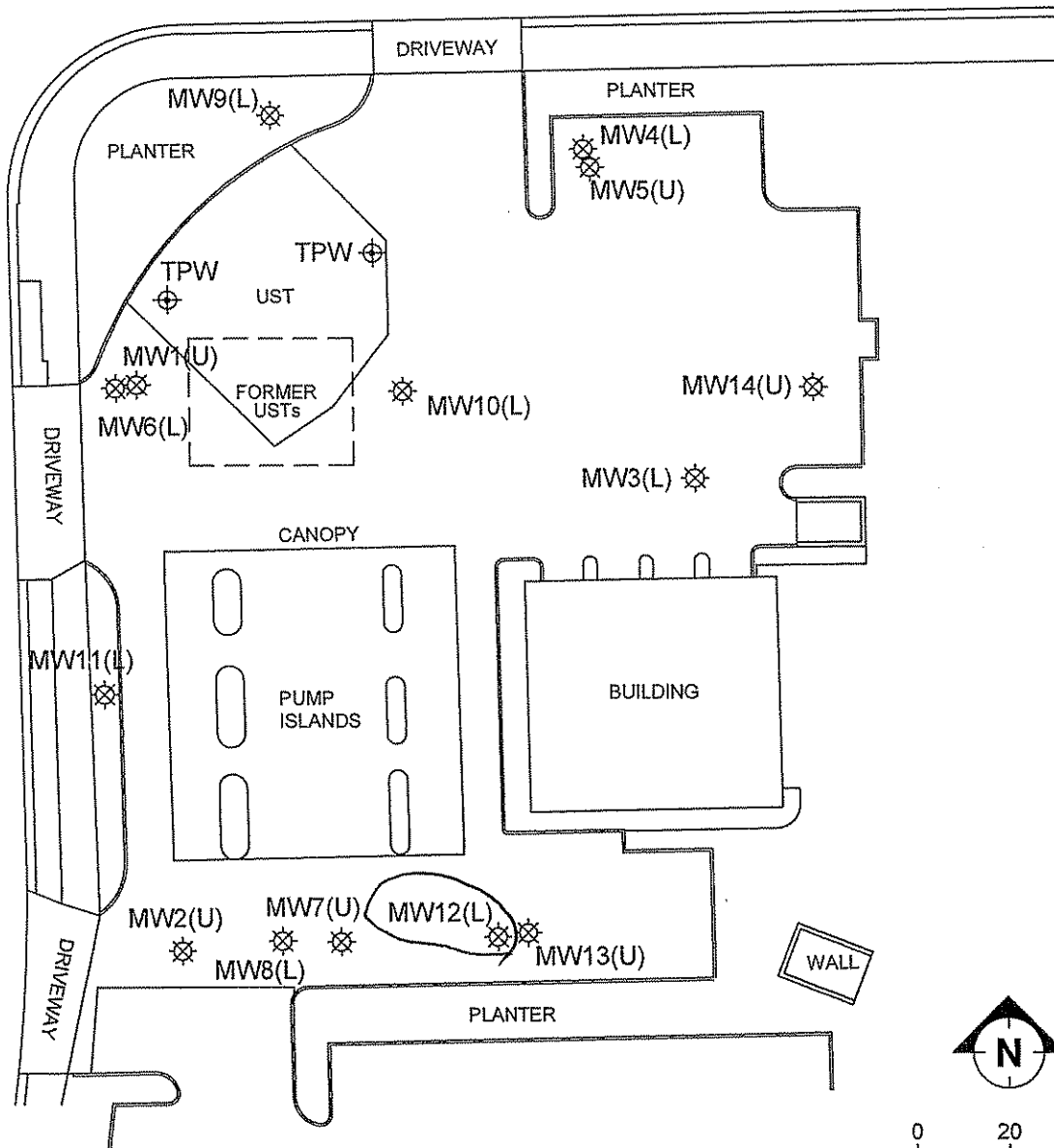


**LEGEND**

- ☼ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit

LAS POSITAS BOULEVARD

SANTA RITA ROAD



FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
FORMER EXXON RS 73567  
3192 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

FIGURE:

1



CLIENT ExxonMobil	SITE NUMBER 73567	LOCATION 3192 Santa Rita Road, Pleasanton, California
----------------------	----------------------	---

LOG OF SOIL BORING: **MW12**

DRILLING AND SAMPLING METHODS: Cleared to 8 feet below ground surface using a soil vacuum and hand auger. Drilled using a hollow stem auger rig utilizing 8-inch augers. Sampled with a split spoon sampler.

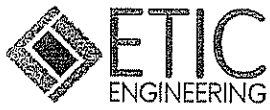
COORDINATES:  
ELEVATION TOP OF CASING:  
CASING BELOW SURFACE:

WATER LEVEL	▽ 45.7			START TIME	FINISH TIME
TIME	1330			1055	1520
DATE	12/11/08			DATE	DATE
REFERENCE	GS			12/9/08	12/11/08

DRILLING COMPANY: Woodward Drilling, Inc.  
LICENSE NUMBER: C57-710079

INCHES				DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING							Concrete	
				0					AC/AB	CONCRETE - to 0.5 feet below ground surface.	DETAILS Single bolt, watertight, Morrison well box
				1					ML	AGGREGATE BASE - from 0.5 to 0.75 feet below ground surface.	
				2					CL	CLAYEY SILT - dark olive grayish brown (2.5Y 3/2), very stiff, low plasticity, slightly moist.	2-inch diameter Schedule 40 PVC riser casing from original grade to 52 feet below ground surface
				3					CL	CLAY WITH SILT - dark grayish brown (2.5Y 4/2), very stiff, low plasticity, moist.	
6	6			4					CL	CLAY - very dark gray (2.5Y 3.1), hard, medium plasticity, moist.	Cement grout from surface to 48 feet below ground surface
				5					CL		
				6					CL		
				7					CL		
				8					CL		
18	14	9		9					SM	SILTY SAND - dark olive brown (2.5Y 3/3), medium dense, fine grained, moist.	
		9	0.4	10					SM		
		9		11					SM		
				12					SM		
				13					SM		
				14					SM		
18	18	9		15					CL	CLAY WITH SOME SILT - very dark gray (2.5Y 3/1), very stiff, medium plasticity, moist.	
		12	0.3	16					CL		
		20		17					CL		
				18					CL		
				19					CL		
				20					CL		

LOG OF SOIL B. J 7-3567.GPJ ETIC.GDT 1/22/09



CLIENT

ExxonMobil

SITE NUMBER

73567

LOCATION

3192 Santa Rita Road,  
Pleasanton, California

LOG OF SOIL BORING:

**MW12**

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG
DRIVEN	RECOVER								
18	18	5		21					
		7							
		10							
				22					
				23					
				24					
18	18	10		25					
		15	0.7	26					
		15							
				27					
				28					
				29					
				30					CL
18	18	10	0.6	31					
		10							
		10							
				32					
				33					
				34					
18	18	10	0.3	35					
		12							
		20							
				36					
				37					
				38					
				39					
18	18	5	0.2	40					ML
		8							
		10							
				41					
				42					
				43					CL
				44					
				45					

- increasing silt content, becoming very dark grayish brown (2.5Y 3/2).

CLAYEY SILT - olive brown (2.5Y 4/3), stiff, low plasticity, very moist.

CLAY WITH SILT - olive brown (2.5 4/3), very stiff to stiff, low plasticity, very moist.

LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09



CLIENT

ExxonMobil

SITE NUMBER

73567

LOCATION

3192 Santa Rita Road,  
Pleasanton, California

LOG OF SOIL BORING:

**MW12**

INCHES		BLOWS / 6" SAMPLER	O/V/A READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG DESCRIPTION	INSTALLATION NOTES
DRIVEN	RECOVER									
18	18	10	0.1	46			ML	CLAYEY SILT WITH SAND - olive brown (2.5Y 4/3), very stiff, low plasticity, very fine grained sand, very moist.		
		10								
		20		47			ML	SANDY SILT - olive brown (2.5Y 4/3), medium dense, very fine grained sand, moist.		
18		10	9	48			SP	POORLY GRADED SAND WITH CLAY - olive brown (2.5Y 4/3), dense, medium grained, wet.	Bentonite chips from 48 to 50 feet below ground surface	
		20								
		21								
18	14	6	0.3	50			SW	WELL GRADED GRAVELLY SAND - olive brown (2.5Y 4/3), loose, fine to coarse grained, subrounded gravels up to 1 inch in diameter, wet.		
		5								
		5								
12	9	12	0.1	53			GC	CLAYEY GRAVEL - olive brown (2.5Y 4/3), dense, gravels up to 1-inch in diameter, moist.		
		50@6"								
				54			SW	GRAVELLY SAND - olive brown (2.5T 4/3), loose, fine to coarse grained sand, gravels up to 1-inch in diameter, wet.	#2/12 sand filter pack from 50 to 67 feet below ground surface	
18	16	17	0.1	55			ML	CLAYEY SILT - olive brown (2.5Y 4/3), stiff, low plasticity, moist.		
		22								
		50@2		56			SW	WELL GRADED SAND WITH GRAVEL - olive brown (2.5Y 4/3), very dense, fine to coarse grained, gravels up to 1-inch in diameter, wet.		
18		9	0.2	58			SW	- diminishing gravel content, becomes dense.		
		24								
		18								
18	0	12		60			SW	- becoming very dense.	2-inch diameter 0.010-inch slot Schedule 40 PVC screen from 52 to 67 feet below ground surface	
		26								
		50@2"		61			SW			
18		7	0.7	63			SW	- becoming medium dense.		
		7								
		10								
18	4	7	0.4	66			SP	POORLY GRADED SAND - olive brown (2.5Y 4/3), medium dense, fine grained, wet.		
		9								
		17		67			SP	Boring terminated at 67 feet below ground surface.	Threaded PVC cap at 67 feet below ground surface	
				68						
				69						
				70						

LOG OF SOIL BC 7-3567.GPJ ETIC.GDT 1/22/09

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STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

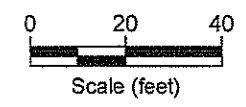
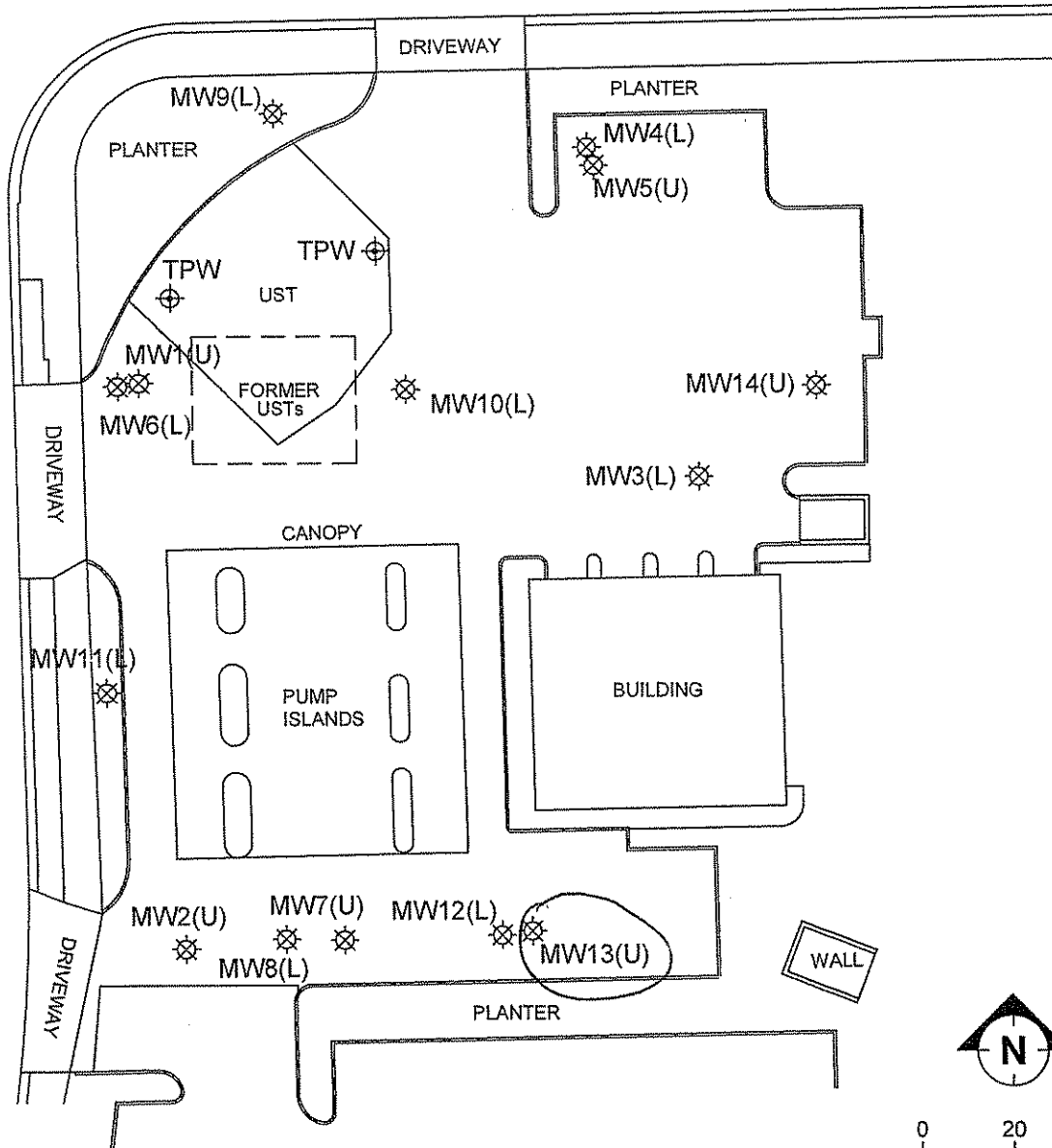
**REMOVED**

**LEGEND**

- ☒ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit

**LAS POSITAS BOULEVARD**

**SANTA RITA ROAD**



FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
FORMER EXXON RS 73567  
3192 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

FIGURE:

**1**



CLIENT ExxonMobil	SITE NUMBER 73567	LOCATION 3192 Santa Rita Road, Pleasanton, California
----------------------	----------------------	---

LOG OF SOIL BORING: **MW13**

DRILLING AND SAMPLING METHODS	Cleared to 8 feet below ground surface using a soil vacuum and hand auger. Drilled using a hollow stem auger rig utilizing 8-inch augers. Sampled with a split spoon sampler.
-------------------------------	---

COORDINATES:  
ELEVATION TOP OF CASING:  
CASING BELOW SURFACE:

WATER LEVEL				START TIME 1235	FINISH TIME 1500
TIME				DATE 12/9/08	DATE 12/15/08
DATE				REFERENCE	

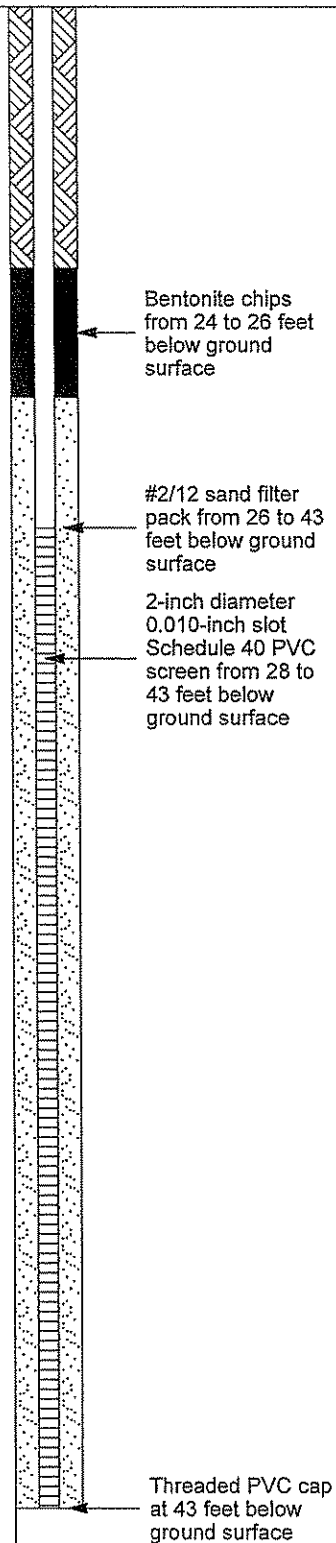
DRILLING COMPANY: Woodward Drilling, Inc.  
LICENSE NUMBER: C57-710079

INCHES				DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE	RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING							Concrete	
				0					AC/AB	CONCRETE - to 0.5 feet below ground surface.	DETAILS Single bolt, watertight, Morrison well box  2-inch diameter Schedule 40 PVC riser casing from original grade to 28 feet below ground surface  Cement grout from surface to 24 feet below ground surface
				1					ML	AGGREGATE BASE - from 0.5 to 0.75 feet below ground surface. CLAYEY SILT - dark olive grayish brown (2.5Y 3/2), stiff, non-plastic, moist.	
				2							
				3					CL	CLAY WITH SILT - dark grayish brown (2.5Y 4/2), stiff, low plasticity, moist.	
				4							
6	6			5					CL	CLAY - dark grayish brown (2.5Y 4/2), stiff, medium plasticity, moist.	
				6							
				7							
				8					CL		
				9							
18		8		10					CL	SILTY CLAY - dark grayish brown (2.5Y 4/2), very stiff, low plasticity, moist.	
		9	0.3	11							
				12							
18	18	4		13					CL	- becoming stiff.	
		6		14							
		10	0.0	15							
18		10		16					CL	CLAY WITH SILT - dark grayish brown (2.5Y 4/2), very stiff, low to medium plasticity, moist.	
		4	0.0	17							
	8	16		18							
18	18	8		19					CL		
		8		20							
		17	0.0	21							

LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09

LOG OF SOIL BORING:  
**MW13**

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE WATER SAMPLE SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG OF SOIL BORING: MW13
DRIVEN	RECOVER						
18	15	5	0.0	21	CL	- becoming very dark gray (2.5Y 3/1).	
		6					
		10					
18	13	10	0.0	23	ML	SILT WITH CLAY - olive brown (2.5Y 4/2), very stiff, low plasticity, slightly moist.	
		10					
		10					
18	4	9	0.1	25	CL	SILTY CLAY - olive brown (2.5Y 4/2), very stiff, low plasticity, moist.	
		9					
		15					
18	18	6	0.1	28	CL	CLAY WITH SOME SILT - very dark gray (2.5Y 3/1), very stiff, medium plasticity, moist.	
		10					
		10					
18	9	12	0.1	30	CL	- becoming stiff, pervasive caliche.	
		12					
		17					
18	18	7	0.1	33	CL	CLAY - olive brown (2.5Y 4/2), very stiff, medium plasticity, slightly moist, pervasive caliche.	
		9					
		14					
18	18	5	0.1	35	CL	CLAYEY SILT WITH TRACE SAND - olive brown (2.5Y 4/2), soft, low plasticity, fine grained sand, moist.	
		7					
		10					
18	18	10	0.1	38	ML	CLAY WITH SOME SILT - olive brown (2.5Y 4/2), very, low to medium plasticity, moist, pervasive caliche.	
		10					
		17					
18	18	10	0.2	40	CL	CLAY WITH SOME SILT - olive brown (2.5Y 4/2), very stiff, low plasticity, moist. Boring terminated at 43 feet below ground surface.	
		12					
		16					
18	18	10	0.2	41	CL	CLAY WITH SOME SILT - olive brown (2.5Y 4/2), very, low to medium plasticity, moist, pervasive caliche.	
		14					
		17					
				42	IML		
				43	CL		
				44			
				45			



LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09



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STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

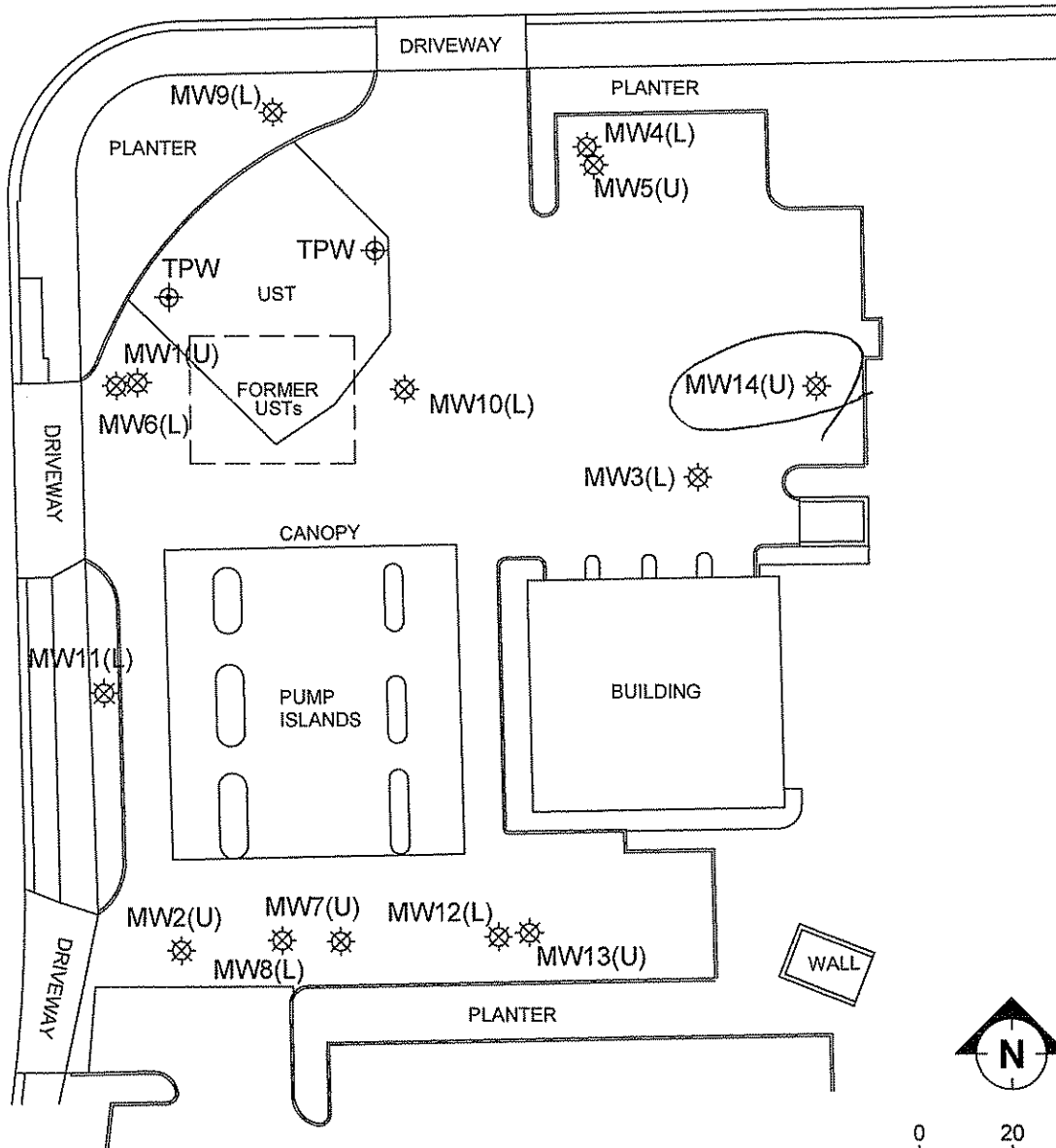
**REMOVED**

**LEGEND**

- ⊗ Destroyed groundwater monitoring well
- ⊕ Tank pit well
- (U) Well screened in upper clay unit
- (U/L) Well screened across upper clay unit and lower sand and gravel unit
- (L) Well screened in lower sand and gravel unit

LAS POSITAS BOULEVARD

SANTA RITA ROAD



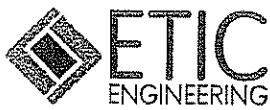
FILENAME: SITE1207.DWG 12/11/07



SITE MAP  
FORMER EXXON RS 73567  
3192 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

FIGURE:

1



CLIENT ExxonMobil	SITE NUMBER 73567	LOCATION 3192 Santa Rita Road, Pleasanton, California
----------------------	----------------------	---

LOG OF SOIL BORING: **MW14**

DRILLING AND SAMPLING METHODS: Cleared to 8 feet below ground surface using a soil vacuum and hand auger. Drilled using a hollow stem auger rig utilizing 8-inch augers. Sampled with a split spoon sampler.

COORDINATES:  
ELEVATION TOP OF CASING:  
CASING BELOW SURFACE:

WATER LEVEL				
TIME			START TIME 1100	FINISH TIME 1520
DATE			DATE 12/8/08	DATE 12/12/08
REFERENCE				

DRILLING COMPANY: Woodward Drilling, Inc.  
LICENSE NUMBER: C57-710079

INCHES				DEPTH (feet)	AIR SAMPLE WATER SAMPLE SOIL SAMPLE RECOVERED	GRAPHIC LOG	SURFACE CONDITIONS	
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING				Concrete	
				0		AC/AB	CONCRETE - to 0.5 feet below ground surface.	DETAILS Single bolt, watertight, Morrison well box
				1			AGGREGATE BASE - from 0.5 to 1 feet below ground surface.	
				2			CLAY WITH SILT - very dark gray (2.5Y 3/1), very stiff, medium plasticity, moist.	2-inch diameter Schedule 40 PVC riser casing from original grade to 23 feet below ground surface
				3		CL		
				4		CL		
6	6			5			SILTY CLAY - dark grayish brown (2.5Y 4/2), stiff, low plasticity, moist.	
				6				
				7		CL		
				8		CL		
				9		CL		
18	15	5 6 10	0.0	10			CLAY WITH SILT - dark grayish brown (2.5Y 4/2), stiff, low plasticity, moist.	
				11		CL	- with trace fine grained sand.	
				12		CL		
18	13	6 9 12		13		SP	POORLY GRADED SAND - dark gray (2.5Y 4/1), medium dense, fine grained, slightly moist.	
				14		CL	SILT WITH SOME CLAY - dark gray (2.5Y 4/1), stiff, non-plastic, slightly moist.	
18	18	5 5 8	0.0	15			SILTY CLAY - dark olive brown (2.5Y 3/3), stiff, low plasticity, moist.	
				16		CL		
18	18	6 7 9	0.0	18			CLAY - dark olive brown (2.5Y 4/2), stiff, medium plasticity, moist, pervasive caliche.	
				19		CL		
				20				Bentonite chips from 19 to 21 feet below ground surface

LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09

LOG OF SOIL BORING:

**MW14**

INCHES		BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE	WATER SAMPLE	SOIL SAMPLE RECOVERED	GRAPHIC LOG
DRIVEN	RECOVER							
18	18	8		21				
		9						
		12						
18	18	8		23				
		15						
		20	0.0	24			CL	
18	18	9		25				
		14		26				
		15	0.1	27				
18	18	9		28				
		15		29			CL	
18	17	8		30				
		8		31				
		9		32				
18	18	6		33				
		9		34			CL	
		11						
18	18	6		35				
		9		36				
		12		37			CL	
				38				
				39				
				40				
				41				
				42				
				43				
				44				
				45				

Bentonite chips from 19 to 21 feet below ground surface

- increasing silt content, becoming very dark gray (2.5Y 3/1).

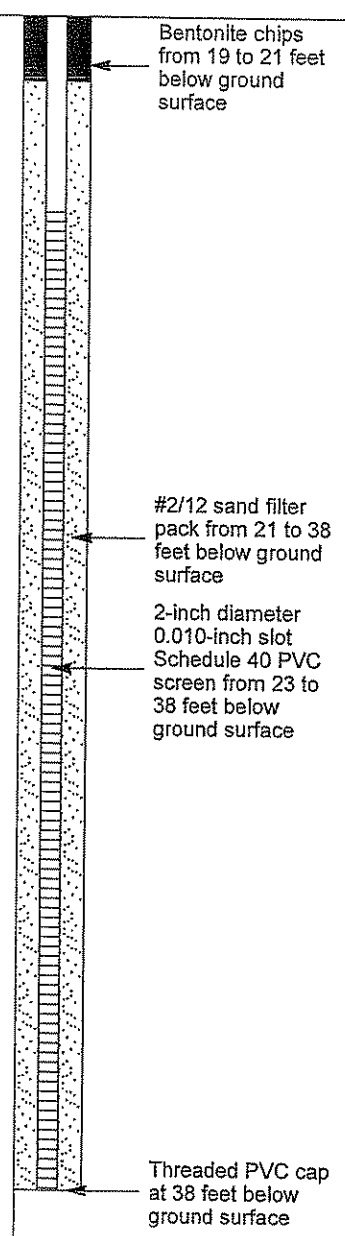
**SILTY CLAY** - dark grayish brown (2.4Y 4/2), stiff, low plasticity, moist.

**CLAY WITH SILT** - dark grayish brown (2.5Y 4/2), stiff, low plasticity, moist.

- becoming very stiff.

**SILTY CLAY** - olive brown (4/2), very stiff, low plasticity, very moist.

Boring terminated at 38 feet below ground surface.



LOG OF SOIL BORING 7-3567.GPJ ETIC.GDT 1/22/09

## **Well Destruction Permits**



# ZONE 7 WATER AGENCY

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

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Former Exxon RS 73567  
3192 Santa Rita Road  
Pleasanton, CA 94566

PERMIT NUMBER 2010048  
WELL NUMBER 3S/1E-9D10 to 9D23 (MW-1 to MW-14)  
APN 946-1105-038-04

Coordinates Source \_\_\_\_\_ ft. Accuracy \_\_\_\_\_ ft.  
LAT: \_\_\_\_\_ ft. LONG: \_\_\_\_\_ ft.  
APN 946-1105-38-4

### PERMIT CONDITIONS (Circled Permit Requirements Apply)

CLIENT  
Name ExxonMobil Environmental Services Company  
Address 4096 Piedmont Ave. #194 Phone (510) 547-8196  
City Oakland Zip 94611

- 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 Woodward Drilling Co., Inc.  
Email scott@woodwarddrilling.com Fax (707) 374-5677  
Address 550 River Road Phone (707) 374-4300  
City Rio Vista Zip 94571

- 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 Woodward Drilling Co., Inc.  
DRILLER'S LICENSE NO. C57-710079

- 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.
- 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.

WELL SPECIFICATIONS: See attached well details.  
Drill Hole Diameter \_\_\_\_\_ in. Maximum \_\_\_\_\_  
Casing Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
Surface Seal Depth \_\_\_\_\_ ft. Number 14 (MW1-MW14)

SOIL BORINGS:  
Number of Borings \_\_\_\_\_ Maximum \_\_\_\_\_  
Hole Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.

ESTIMATED STARTING DATE 8 June 2010  
ESTIMATED COMPLETION DATE 10 June 2010

- E. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.
- 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 Christina E. Woodward Date 5/19/10

Approved Wynman Hong Date 5/24/10  
Wynman Hong

ATTACH SITE PLAN OR SKETCH

May 26, 2010

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

**ExxonMobil Environmental Services Company  
3192 Santa Rita Road  
Pleasanton  
Wells 3S/1E-9D10 to 3S/1E-9D23 (MW-1 to MW-14)  
Permit 2010048**

**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.

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER EXXON RS 73567, 3192 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Well Number	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
35/E-9D12 MW1	NS	36.5	35	8	2	20-35	0.200	19-36.5	#3 Sand
35/E-9DB MW2	NS	41.5	35	8	2	20-35	0.020	19-35	#3 Sand
35/E-9D10 MW3	NS	51.5	50	8	2	35-50	0.020	34-51.5	#3 Sand
35/E-9D11 MW4	NS	51.5	50	8	2	35-50	0.020	34-51.5	#3 Sand
35/E-9D15 MW5	NS	31	30	8	2	20-30	0.020	19-31	#3 Sand
35/E-9D16 MW6	NS	54	53	8	2	43-53	0.020	42-54	#3 Sand
35/E-9D17 MW7	NS	50	49	8	2	39-49	0.020	38-50	#3 Sand
35/E-9D14 MW8	NS	70	70	8	2	55-70	0.020	55-70	#3 Sand
35/E-9D18 MW9	PVC	69	69	8	2	54-69	0.010	52-69	#2/12 Sand
35/E-9D19 MW10	PVC	67	67	8	2	52-67	0.010	50-67	#2/12 Sand
35/E-9D20 MW11	PVC	64	64	8	2	49-64	0.010	47-64	#2/12 Sand
35/E-9D21 MW12	PVC	67	67	8	2	52-67	0.010	50-67	#2/12 Sand
35/E-9D22 MW13	PVC	43	43	8	2	28-43	0.010	26-43	#2/12 Sand
35/E-9D23 MW14	PVC	38	38	8	2	23-38	0.010	21-38	#2/12 Sand

Notes:

NS Not specified.  
PVC Polyvinyl chloride.