ConocoPhillips
76 Broadway
Sacramento, California 95818

May 11, 2010

Barbara Jakub
Alameda County Health Agency
1131 Harbor Bay parkway, Suite250
Alameda, California 94502-577

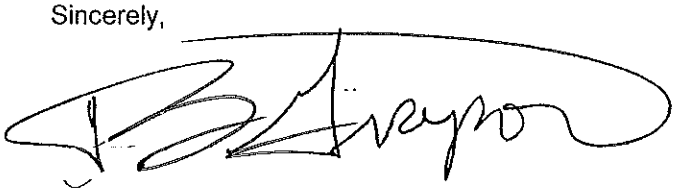
Re: ***Monitoring Well Abandonment Report***
76 Service Station # 5484 RO # 0352
18950 Lake Chabot Road
Castro Valley, CA

Dear Ms. Jakub:

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 me at (916) 558-7666.

Sincerely,



Terry L. Grayson
Site Manager
Risk Management & Remediation

May 12, 2010

Ms. Barbara Jakub
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California, 94502

RE: MONITORING WELL ABANDONMENT REPORT
76 Service Station No. 5484
18950 Lake Chabot Rd
Castro Valley, California

DELTA

Dear Ms. Jakub:

On behalf of ConocoPhillips Company (ConocoPhillips), Delta Consultants (Delta) is submitting this *Monitoring Well Abandonment Report* for the subject site.

Please contact James Barnard at (916) 503-1279 if you have questions.

Sincerely,

DELTA CONSULTANTS

James B. Barnard
Project Manager

Enclosure

cc: Mr. Terry Grayson – COP (electronic copy only)

a member of: Inogen Environmental Alliance

11050 White Rock Road Suite 110 Rancho Cordova, California 95670 USA
Phone +1 916.638.2085 / USA Toll Free 800.477.7411
Fax +1 916.638.8385 www.deltaenv.com

MONITORING WELL ABANDONMENT REPORT

76 SERVICE STATION NO. 5484
18950 LAKE CHABOT RD
CASTRO VALLEY, CA

May 12, 2010

Prepared for

ConocoPhillips Company
76 Broadway
Sacramento, California

The material and data in this report were prepared under the supervision and direction of the undersigned.

Delta Consultants

Alan Buehler
Staff Geologist

James B. Barnard
California Registered Professional Geologist No. 7478

REGISTERED PROFESSIONAL GEOLOGIST
JAMES B. BARNARD
No. 7478
Expires: 9/10
GEOLOGY
STATE OF CALIFORNIA

1.0 INTRODUCTION

On behalf of ConocoPhillips, Delta has prepared this report for the 76 Service Station No. 5484 (site) located at 18950 Lake Chabot Rd, Castro Valley, California (Figure 1).

The purpose of this report is to provide a summary of monitoring well abandonment activities.

2.0 SITE BACKGROUND

2.1 PREVIOUS ENVIRONMENTAL WORK

The site is located on the southeast corner of the intersection of Lake Chabot Road and Quail Avenue, and is an active 76 service station and automotive service facility. Current site facilities consist of two gasoline underground storage tanks (USTs), a waste oil UST, two dispenser islands, and a station building.

In June 1988, a leak was detected in the unleaded product system during an annual tank precision test. Three monitoring wells (MW-1 through MW-3) were subsequently installed on-site in July 1988 by Applied GeoSystems (AGS) to evaluate subsurface conditions. Soil samples collected from the well borings contained total petroleum hydrocarbons (TPH) up to 79 milligrams per kilogram (mg/kg) and benzene, toluene, ethyl-benzene, and total xylenes (BTEX) (up to 26 mg/kg). Groundwater samples collected from the monitoring wells contained TPH up to 7,800 micrograms per liter (µg/L) and benzene up to 640 ug/L. Approximately 1 foot of free product was observed in monitoring well MW-3 in October 1988.

In May and June 1989, two off-site monitoring wells (MW-4 and MW-5) and an additional on-site monitoring well (MW-6) were installed. Soil samples collected from the well borings generally did not contain TPH as gasoline (TPHg) or BTEX with the exception of TPHg at 2.4 mg/kg in the sample collected at 13.5 feet below ground surface (bgs) from well boring MW-5.

In June 1989, two 10,000-gallon gasoline USTs and one 280-gallon waste oil UST located to the southeast of the station building were removed from the site. During the removal, monitoring wells MW-1 and MW-3 were destroyed. Five soil samples collected at 6 feet bgs from the sidewalls of the gasoline UST excavation contained TPHg ranging from 1,400 mg/kg to 4,300 mg/kg. As a result, impacted soil was over-excavated in the area of the former gasoline USTs and dispensers. An area measuring approximately 60 feet by 70 feet was excavated to depths of 10 feet to 15 feet bgs. Soil samples collected from the sidewalls and bottom of the excavation contained TPHg (up to 8.9 mg/kg) and BTEX (up to 0.88 mg/kg). Soil samples collected beneath the former waste oil UST at 7 feet bgs contained TPHg up to 650

mg/kg and total oil and grease (TOG) up to 19,000 mg/kg. Therefore, impacted soil was also over-excavated in this area to approximately 10 to 11 feet bgs. Approximately 1,900 cubic yards of impacted soil was excavated and disposed off-site between June and August 1989. Two 12,000-gallon fiberglass, double-wall USTs and a 520-gallon waste oil UST (north of the station building) were installed.

In November 1989, five additional borings (B-7 through B-11) were advanced to further evaluate to the extent of impacted soil. Soil samples collected from the borings contained TPHg up to 220 mg/kg and BTEX up to 160 mg/kg.
In May 1991, an additional boring (EB1) was advanced and an additional monitoring well (MW-7) was installed in the southern portion of the site. Soil samples collected from the borings contained TPHg up to 130 mg/kg and low levels of BTEX (up to 3.6 mg/kg). A groundwater sample collected from monitoring well MW-7 contained TPHg at 3,000 ug/L, TPH as diesel (TPHd) at 540 µg/L, and benzene at 160 µg/L.

In February, 2009, an attempt was made to locate the buried monitoring well MW-4. Gregg Drilling, under Delta supervision, air knifed/water knifed to 5 feet bgs in a location identified by underground radar. The attempt was unsuccessful. Delta decided that to prevent further damage to the private property, during construction of a nearby apartment complex facility, the prior contractors had likely backfilled the excavation site, burying MW-4 (without properly abandoning the well?). Original well installation data put the well under a steel reinforced concrete driveway. On February 17 and 18, 2009 two replacement monitoring wells (MW-4A and MW-4B) were installed in the near vicinity of MW-4. Soil samples collected from the borings contained Lead up to 13 mg/kg. A groundwater sample collected from onsite monitoring well MW-7 contained TPHg at 3,000 ug/L, TPH as diesel (TPHd) at 540 µg/L, and benzene at 160 µg/L.

2.2 SENSITIVE RECEPTORS

A well search was performed by AGS in 1988 within a ½-mile radius of the site; two wells were identified within the search radius. One well was a test well located approximately ½ mile south of the site, and the other well was a domestic well located approximately ½ mile south/southeast of the site. Based on groundwater flow calculations, the wells appeared to be down-gradient of the site.

A well search was conducted by Gettler-Ryan Inc. (GR) in September 1998 and consisted of a review of Department of Water Resources (DWR) files. A number of wells were identified within ¼ to ½ mile of the site, and one well was identified within ¼ mile of the site.

A sensitive receptor survey (SRS) was performed by Delta in 2006; the results of the survey were presented in our *Sensitive Receptor Report*, dated August 22, 2006. The survey consisted of a review of DWR files to evaluate the presence of wells within a ½-mile radius of the site, and a questionnaire regarding the presence of wells, sumps, or basements was mailed to property owners within 1,000 feet of the site. A total of 214 questionnaires were mailed in April 2006; only 38 responses were received. Based on the responses received, wells were located on eight of the properties, sumps used for irrigation purposes were located on three of the properties, and basements were present at 16 of the properties. Four additional property owners were mailed questionnaires based on the DWR files; however, no responses were received. Delta also conducted a site visit to evaluate the presence of schools, day care centers, and hospitals within 1,000 feet of the site. Chabot Elementary School was located approximately 470 feet southeast (cross-gradient) of the site.

Based on the U.S. Geological Survey Topographic Map (USGS) for the site vicinity (Hayward Rosa quadrangle), the nearest surface water body is an unnamed drainage located approximately 2,000 feet north of the site. The drainage originates from a reservoir located about 1 mile to the northeast.

3.0 MONITORING WELL ABANDONMENT ACTIVITES

3.1 PRE-FIELD ACTIVITIES

Before commencing field activities Delta prepared a Health and Safety Plan in accordance with state and federal requirements for use during on-site assessment activities. In addition, drilling permits were obtained for abandonment of all wells (Appendix A). Prior to drilling, Delta notified Underground Service Alert (USA) to clear the proposed abandonment locations for underground utilities.

3.2 WELL ABANDONMENT

On April 29, 2010, Delta oversaw the abandonment of two offsite monitoring wells MW-4A and MW-4B located in the grass planter box vicinity of the 18937 Lake Chabot Rd address (Figure 2). The wells were abandoned in accordance with the terms of the Amendment to the Access Agreement, revised to end on May1, 2010 (Appendix B).

Both wells MW-4A and MW-4B were abandoned in-place by method of pressure grout. Neat cement grout was applied to the well, and a pressure of 25 pounds per square inch (psi) was applied to the well for 5 minutes, in order to ensure a good surface seal. Well box material and the top foot of casing material were removed, and a plastic end cap placed over the exposed end of the casing. The hole was backfilled with garden soil topped with grass sod to match the existing surface conditions.

Historical borings logs of the abandoned wells are included as Appendix C. Department of Water Resources (DWR) Well Abandonment Reports are included as Appendix D.

DISPOSAL OF GENERATED WASTE

No waste was generated during these activities.

5.0 LIMITATONS

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 were 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 express or implied warranty as to the contents of this report.

*****

FIGURES

Figure 1 – Site Location Map
Figure 2 – Site Plan with Abandoned Well Locations

APPENDICES

Appendix A – Well Destruction Permit
Appendix B – Access Agreement for 18937 Lake Chabot Rd Property
Appendix C – Historical Boring Logs
Appendix D – DWR Well Abandonment Report

FIGURES

APPENDIX A

Well Destruction Permit

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: 04/21/2010 By jamesy

Permit Numbers: W2010-0261 to W2010-0262
Permits Valid from 04/29/2010 to 04/30/2010

Application Id: 1271364374880 **City of Project Site:** Castro Valley
Site Location: 18950 Lake Chabot Rd, Castro Valley, CA
Project Start Date: 04/29/2010 **Completion Date:** 04/30/2010
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Applicant: Delta Environmental - James Barnard **Phone:** 916-503-1275
11050 White Rock Rd, Ste 110, Rancho Cordova, CA 95670
Property Owner: Terry Grayson, Conoco Phillips **Phone:** 916-558-7666
76 Broadway, Sacramento, CA 95818
Client: ** same as Property Owner **

Total Due: $794.00
Receipt Number: WR2010-0121 **Total Amount Paid:** $794.00
Payer Name : Delta Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Destruction-Monitoring - 2 Wells
Driller: Gregg - Lic #: 57932633 - Method: hstem **Work Total: $794.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2010-0261	04/21/2010	07/28/2010	MW-44B	8.00 in.	2.00 in.	9.00 ft	14.00 ft			
W2010-0262	04/21/2010	07/28/2010	MW-4A	8.00 in.	2.00 in.	5.00 ft	10.00 ft			

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with 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. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend

and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

6. 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.

7. Permittee, 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.

8. 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.

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.

APPENDIX B

Access Agreement for 18937 Lake Chabot Rd Property

Leigh A. Hollingsworth
Property Tax, Real Estate
Right of Way and Claims
1232 Park Street, Suite 300
Paso Robles, CA 93446
Phone (805) 226.2654
Fax (805)239-4410

June 15, 2009

CLOSING MEMO

Terry Grayson
ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

Re:	**AOC Site #:**	**1421** – 76 Service Station
	Site Address:	18950 Lake Chabot Road, Castro Valley, CA
	Acquisition#:	**5484**
	TOBIN #:	**PRW31299**
	Subject:	**Amendment to License Agreement**
	Property Owner:	John A. & Nancy D. Helton Trust, Craig H. & Kathryn Kutz Ragg Trust Dennis & Marie Corti Trust
	Property Location:	**18937 Lake Chabot Road, Castro Valley, CA**
	Owner Contact:	John & Nancy Helton Trust, Craig & Kathryn Kutz Ragg Trust Dennis & Marie Corti Trust 20980 Redwood Road, Unit #210 Castro Valley, CA 94546-5930 Attn: Craig Ragg Real Estate Phone: (510) 889-7709
	Date contract signed:	May 11, 2009
	Expiration:	**May 1, 2010 (Revised term of Agreement)**
	Pre-Construction Requirements:	Coordinate activities with Licensor in advance of work

Dear Terry:

Enclosed please find a copy of the **Amendment to License Agreement granting continued access to reinstall two (2) groundwater monitoring wells (MW-4A & MW-4B) with testing and sampling on a quarterly basis. To include two (2) new well boxes set flush with the surface of the landscaping. The term of Agreement has been revised to end on May 1, 2010.** Please maintain this copy for your files. A copy of this document is also being forwarded to Real Property Administration for tracking in Tobin and for future reference.

Please do not hesitate to call should you have any questions regarding this agreement.

Sincerely,

Leigh Ann Hollingsworth
Assistant
Principal Technical Services - Approved Service Provider for **ConocoPhillips Company**

lah
Enclosures: 1) Copy – Amendment to License Agreement
2) Copy – Project Request Form

AMENDMENT TO LICENSE AGREEMENT

This Amendment to License Agreement ("Amendment") is entered into and becomes effective on April 10, 2009 by and between **JOHN A. and NANCY D. HELTON TRUST, CRAIG H. and KATHRYN KUTZ RAGG TRUST AND DENNIS and MARIE CORTI TRUST,** ("Licensor"), and **CONOCOPHILLIPS COMPANY** ("Licensee"). Licensor and Licensee shall sometimes hereinafter be referred to as the "Parties".

RECITALS

WHEREAS, the Parties previously entered into a License Agreement dated February 1, 2009, granting Licensee access to the property of Licensor for certain environmental assessment and/or corrective action purposes, specifically, 1) to properly locate, close and abandon one (1) groundwater monitoring well; and 2) Install one (1) replacement groundwater monitoring well and conduct certain monitoring well sampling activities on a quarterly basis (the "Agreement"); and

WHEREAS, the Agreement reflects the real property of Licensor located at 18937 Lake Chabot Road, Castro Valley, California and further identified by the Alameda County Assessor as Parcel Number 084B-0502-048-01 (the "Property"); and

WHEREAS, Licensee, in cooperation with the Alameda County Health Agency (ACHA), now desires to enter the Property to conduct additional environmental investigation and/or remediation activities, more fully described as follows:

1) Reinstallation of two (2) groundwater monitoring wells, labeled as "MW-4A" and "MW-4B" on Exhibit "B", attached hereto and made a part hereof , including new well boxes set flush with the surface of the landscaping (the "Additional Work"); and
2) Quarterly access to the both groundwater monitoring wells for monitoring well sampling activities and maintenance.

WHEREAS, the Agreement by its terms expires on February 1, 2014, unless extended by agreement of the Parties; and

WHEREAS, the Parties mutually desire to revise the term of the Agreement as set forth below.

NOW THEREFORE, in consideration of the granting of the foregoing, the mutual premises, covenants, conditions and agreements hereinafter set forth, and other good and valuable consideration, the receipt and adequacy of which are acknowledged, the Parties agree as follows:

1. The above recitals are hereby incorporated by reference.

2. The Agreement is amended to include the Additional Work.

3. The term of the Agreement is revised to end on May 1, 2010.

4. Upon expiration of the Agreement, Licensee shall provide Licensor with documentation demonstrating Licensee's closure of the installations authorized by the Agreement and Licensee's compliance with all other requirements of paragraph "2" of the Agreement. Upon request by Licensor, Licensee shall promptly provide copies of all permits and approvals necessary for Licensee's conduct of all its actions under the Agreement.

5. Paragraph "8" of said License Agreement concerning notice is hereby amended as follows:

To Licensor:
John A. & Nancy D. Helton Trust
Craig H. & Kathryn Kutz Ragg Trust
Dennis & Marie Corti Trust
20980 Redwood Road, Unit #210
Castro Valley, CA 94546-5930
Phone: (510) 889-7709
Facsimile: ( )___-____

To Licensee:
ConocoPhillips Company
1232 Park Street, Suite #300
Paso Robles, CA 93446
Attention: Colleen S. Hagemann
Phone: (805) 226-2649
Facsimile: (805) 239-4410

With Copies to:
ConocoPhillips Company
76 Broadway
Sacramento, CA 95818
Attention: Terry Grayson
Phone: (916) 558-7666
Facsimile: (916) 558-7639

The person and the place to which notices are to be mailed may be changed by either party by providing written notice of same to the other.

///

///

///

6. All other terms, conditions and provisions of the Agreement shall continue in full force and effect.

THE PARTIES have executed this Amendment to License Agreement by their duly authorized representative(s).

LICENSOR

JOHN A. AND NANCY D. HELTON TRUST

By: John A & Nancy D. Helton

Name: John A. Helton & Nancy D. Helton

Title: Owner

Date: 5/4/09

LICENSEE

CONOCOPHILLIPS COMPANY

By:

Name: Frank L Nichols

Title: Advisor

Date: 11 MAY 2009

LICENSOR

CRAIG H. AND KATHRYN KUTZ RAGG TRUST

By:

Name: Craig H. Ragg - Kathryn L. Kutz Ragg

Title: owner

Date: 5/6/09

LICENSOR

DENNIS AND MARIE CORTI TRUST

By: Dennis & Marie Corti Trust

Name: Dennis M. Corti Marie Corti

Title: Owners

Date: 5/1/09

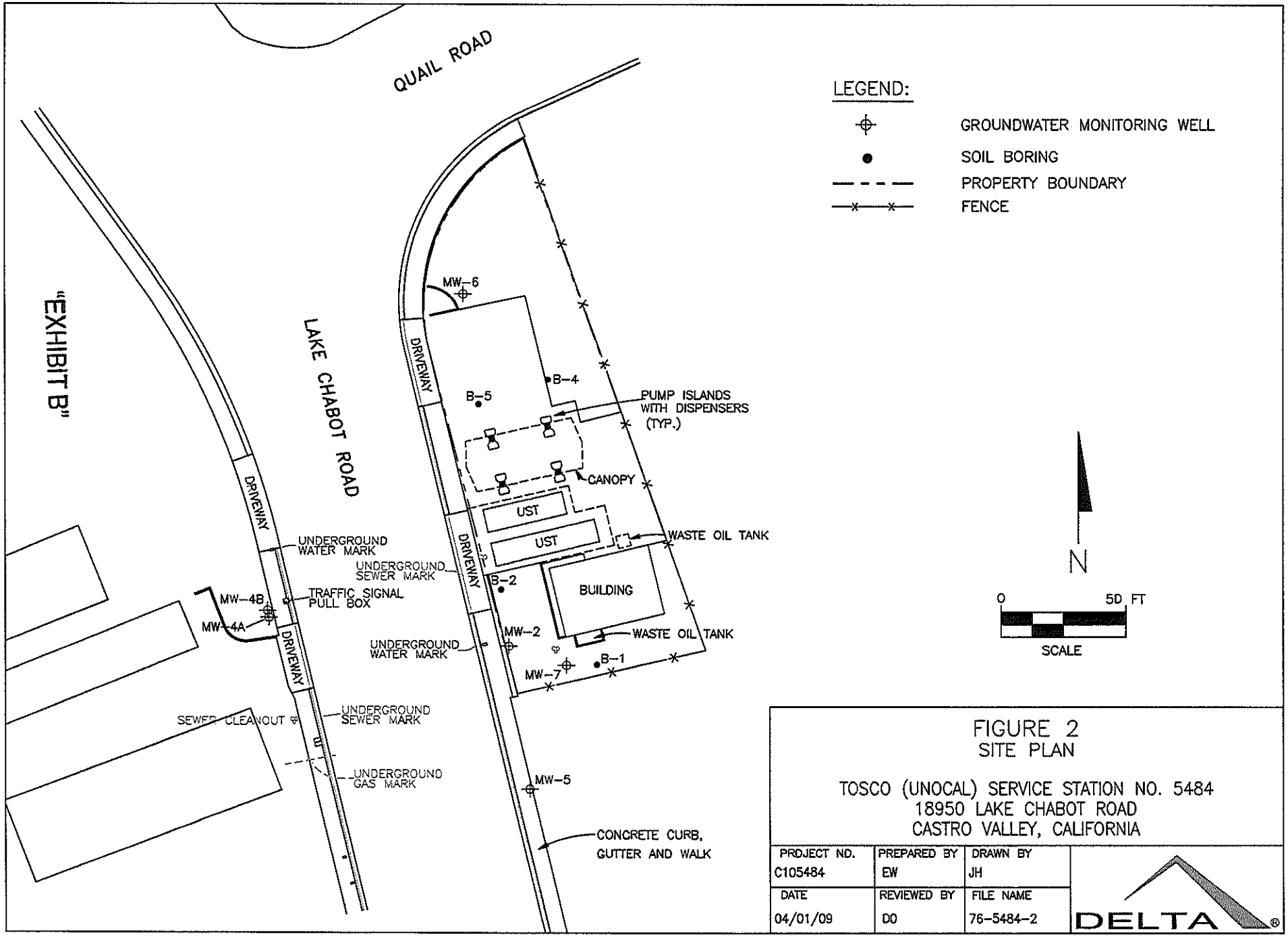


FIGURE 2
SITE PLAN

TOSCO (UNOCAL) SERVICE STATION NO. 5484
18950 LAKE CHABOT ROAD
CASTRO VALLEY, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105484	EW	JH
DATE	REVIEWED BY	FILE NAME
04/01/09	DO	76-5484-2

DELTA®

RM&R / PTRRC PROJECT REQUEST & INFORMATION FORM

RM&R Request Date	3/17/2009	PTRRC Received Date	3/17/2009	☐ NEW	☐ RENEWAL
RM&R Required Date	ASAP	PTRRC Closed Date	5/12/2009	☐ HISTORICAL	☑ AMENDMENT

SITE SPECIFIC INFORMATION

SITE OF OPEN ENVIRONMENTAL CASE

Acquisition # (4 digits)	5484
Street Address	18950 Lake Chabot Road
City	Castro Valley
State and Zip	CA 94546
Ownership Status	Former COP
Heritage Company	Unocal 76

SITE MANAGER INFORMATION

Site Manager	Terry Grayson
Street Address	76 Broadway
City	Sacramento
State, Zip	CA 95818
Office Phone	916.558.7666
Fax Number	916.558.7666
Cell Phone	916.307.3450

ACCOUNTING INFORMATION

RM&R Site ID#	1421
WNG. Number	WNG.000.1421.00.AS
Company Code	01
G/L Account No.	711000 Lic/Permits/Reg Fees

ENFOS P.O. # Required For Expenditures

Purchase Order #	
Bus. Unit # (6-7 digits)	255484

CONSULTANT INFORMATION

Company Name	Delta Consultants
Street Address	11050 White Rock Rd
City	Rancho Cordova
State and Zip	CA 95670
Project Manager	Dennis Dettloff
Work Phone	916.503.1261
Email Address:	

REGULATORY AGENCY

Agency Name	Alameda County Health Agency
Agency Location	Alameda
Agency Phone	510-639-1287
Agency Contact	Barbara Jakub
Agency Email	

PROJECT LOCATION

Assessor Parcel #	084B-0502-048-01
Street Address	18937 Lake Chabot Road
City	Castro Valley
State and Zip	CA 94546
County	Alameda
Legal Description	

LANDOWNER 1

Owner #1 Name	John A. & Nancy D. Helton Trust
Street Address	20980 Redwood Rd., Unit#210
City	Castro Valley
State and Zip	CA 94546-5930
P.O. Box	
P.O. City & Zip	
Phone	
Contact Thru	
On Premises?	

LANDOWNER 2 (If Applicable)

Owner #2 Name	Craig H.& Kathryn Kutz Ragg Trust
Street Address	20980 Redwood Rd., Unit #210
City	Castro Valley
State and Zip	CA 94546-9530
P.O. Box	
Phone	(510) 889-7709
Phone	
Contact Thru	Craig Ragg Real Estate
On Premises?	

LANDOWNER 3

Name	Dennis & Marie Corti Trust
Street Address	20980 Redwood Rd., #210
City	Castro Valley
State and Zip	CA 94546
P.O. Box	
P.O. City & Zip	
Phone	
On Premises?	

LANDOWNER ATTORNEY (If Applicable)

Law Office	
Attorney	
Street Address	
City	
State and Zip	
Phone	

PROPERTY MANAGEMENT (If Applicable)

Company	
Contact Name	
Street Address	
City	
State and Zip	
Phone	

PTRRC CONTACT

PTRRC Associate	Colleen Hagemann/JRP
Phone	805.226.2649
PTRRC Agent	Frank Nichols
City	Paso Robles
Phone	805.226.2644
COP Legal	Derrick Vallance

WORK DESCRIPTION

Obtain an Amendment to the existing License Agreement to allow for reinstallation of two previously installed GWMW's, MW-4A & MW-4B, currently located on this property. Wells were installed too high in the landscaping and the owner would like them lowered. New well boxes will enable them to be lowered and still maintain clean samples through protection from surface waters in the landscaping.

ACCESS SCOPE

Access Scope	
Other:	

Access Restrictions Detail: Coordinate work-date in advance with Licensor and revise LA to a 15 month term rather than a five year term.

PROJECT INFORMATION

Agreement Type	Access
Start Date	ASAP
Project Duration	1 year
Access Property Type	
Other (specify)	
TOBIN #	PRW31299
TOBIN Tract #	

REPORT SUBMITTAL REQUIREMENTS

Frequency	
Type	
To Whom	
Other	

AGREEMENT INFO (PTRRC AFTER CLOSING)

Agreement Date	5/11/2009
Agmt Expire Date	5/1/2010
Access Fee	N/A
Fee Frequency	N/A
Property Owner Tax ID #	N/A

PRE-NOTIFICATION REQMNTS

In Advance	Yes
When	
To Whom	Landowner 1
Other	
Form of Notification	(510) 889-7709

Indicate in which Electronic Data Management System (EDMS) Agreement resides. Upload if Not in EDMS. ☐ WEB-X ☐ LIVELINK

Required completion by RM&R or its Consultant | Drop-Down Data Selection

6/10/2009

APPENDIX C
Historical Boring Logs

Delta
Consultants

Project No:	5484	Client:	COP
Logged By:	E. Weyrens	Location:	Castro Valley
Driller:	Gregg	Date Drilled:	2/18/2009
Drilling Method:	HAS	Hole Diameter:	8"
Sampling Method:	Geoprobe	Hole Depth:	10'
Casing Type:	PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	10'
Gravel Pack:	#3	▼ First Water Depth:	
		▽ Static Water Depth:	

Boring/Well No: 4A
Page 1 of 1

Location Map

Elevation: Northing: Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1			Fill	Grass on top of fill down to 1 foot below grade
		Moist			2			CL	Sandy Lean Clay Brown in color, moist, fine grained sand Moist, no odors
		Wet			3				Water coming in at 3 fbg, possibly due to the rain or irrigation for the grass
					4				
					5				Increase in Gravel content at 4.5 fbg subangular to angular gravel, up to .5 of an inch in diameter.
					6				
					7				
					8	X			Increase in Density at 8 fbg
		wet	0	MW-4A@9	9	X	O		
		dry			10				At 9 fbg hit hard material, possibly a large rock, hard pan or bedrock, judging by the angular pieces of gravel, it is bedrock
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

Delta
Consultants

Project No:	5484	Client:	COP
Logged By:	E. Weyrens	Location:	Castro Valley
Driller:	Gregg	Date Drilled:	2/18/2009
Drilling Method:	HAS	Hole Diameter:	8"
Sampling Method:	Geoprobe	Hole Depth:	14'
Casing Type:	PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	14'
Gravel Pack:	#3	▼ First Water Depth:	
		▽ Static Water Depth:	

Boring/Well No: 4B
Page 1 of 1

Location Map

Elevation: | Northing: | Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1			Fill	Grass on top of fill down to 1 foot below grade
		Moist			2			CL	Sandy Lean Clay
									Brown in color, moist, fine grained sand
		Wet			3				Moist, no odors
									Water coming in at 3 fbg, possibly due to the rain
					4				or irrigation for the grass
					5				Increase in Gravel content at 4.5 fbg
									subangular to angular gravel, up to .5 of an inch in
					6				diameter.
					7				Fractured bedrock at 7 fbg (Switch to split spoon)
					8				
					9	X			Weathered bedrock
						X			Yellowish brown 10YR 5/4
		dry	0.6	MW-4B@10	10	X	O		Hard, No odor
					11				
					12				
					13	X			Same as above
						X			
		dry	0.8	MW-4B@14	14	X	O		
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

APPENDIX D

DWR Well Abandonment Report

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

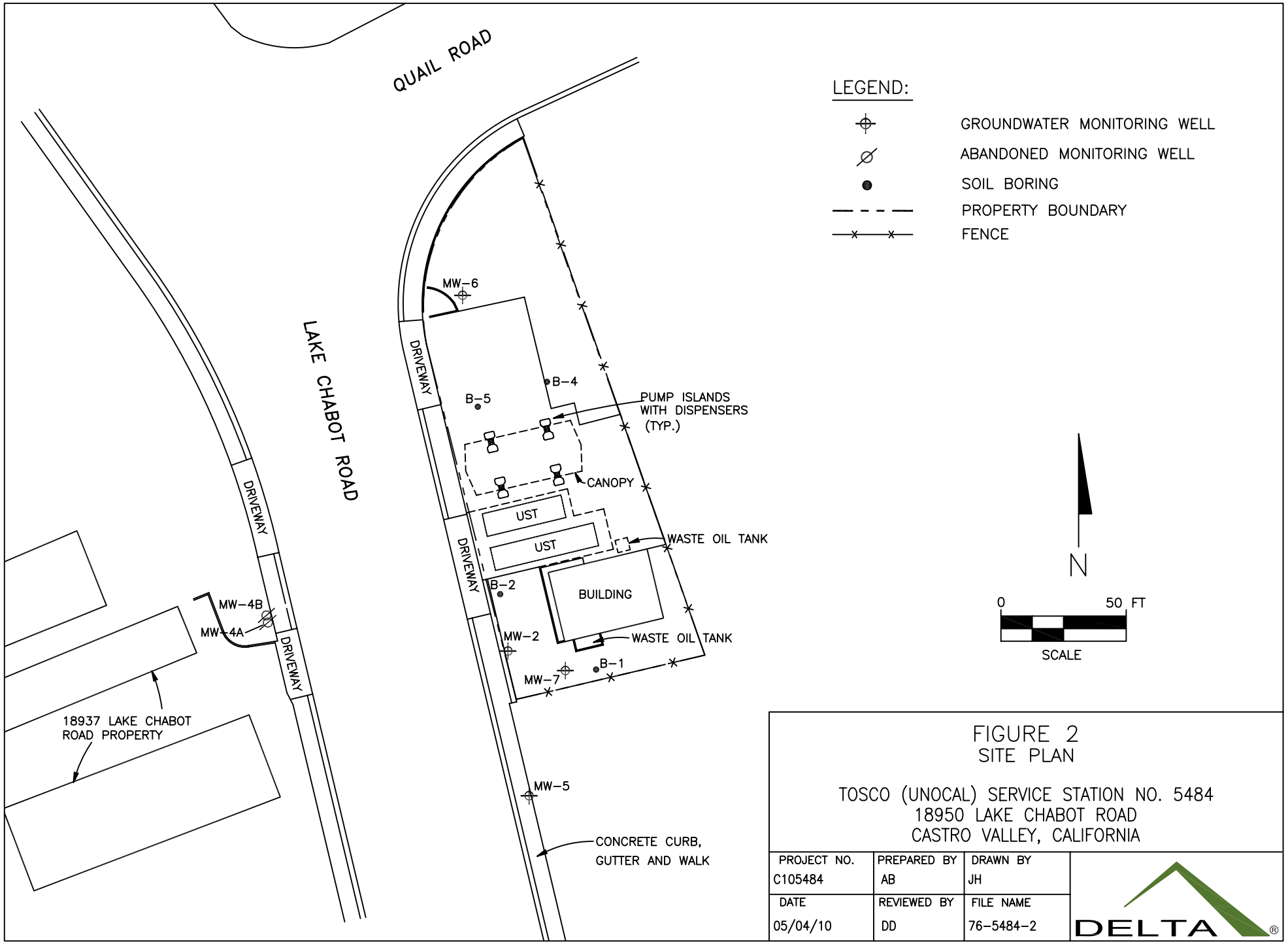


FIGURE 2
SITE PLAN

TOSCO (UNOCAL) SERVICE STATION NO. 5484
18950 LAKE CHABOT ROAD
CASTRO VALLEY, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105484	AB	JH
DATE	REVIEWED BY	FILE NAME
05/04/10	DD	76-5484-2

DELTA®

Delta
Consultants

Project No:	5484	Client:	COP
Logged By:	E. Weyrens	Location:	Castro Valley
Driller:	Gregg	Date Drilled:	2/18/2009
Drilling Method:	HAS	Hole Diameter:	8"
Sampling Method:	Geoprobe	Hole Depth:	10'
Casing Type:	PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	10'
Gravel Pack:	#3	▼ First Water Depth:	
		▽ Static Water Depth:	

Boring/Well No: 4A
Page 1 of 1

Location Map

Elevation: Northing: Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1			Fill	Grass on top of fill down to 1 foot below grade
		Moist			2			CL	Sandy Lean Clay Brown in color, moist, fine grained sand Moist, no odors
		Wet			3				Water coming in at 3 fbg, possibly due to the rain or irrigation for the grass
					4				
					5				Increase in Gravel content at 4.5 fbg subangular to angular gravel, up to .5 of an inch in diameter.
					6				
					7				
					8	X			Increase in Density at 8 fbg
		wet	0	MW-4A@9	9	X	O		
		dry			10				At 9 fbg hit hard material, possibly a large rock, hard pan or bedrock, judging by the angular pieces of gravel, it is bedrock
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

485165

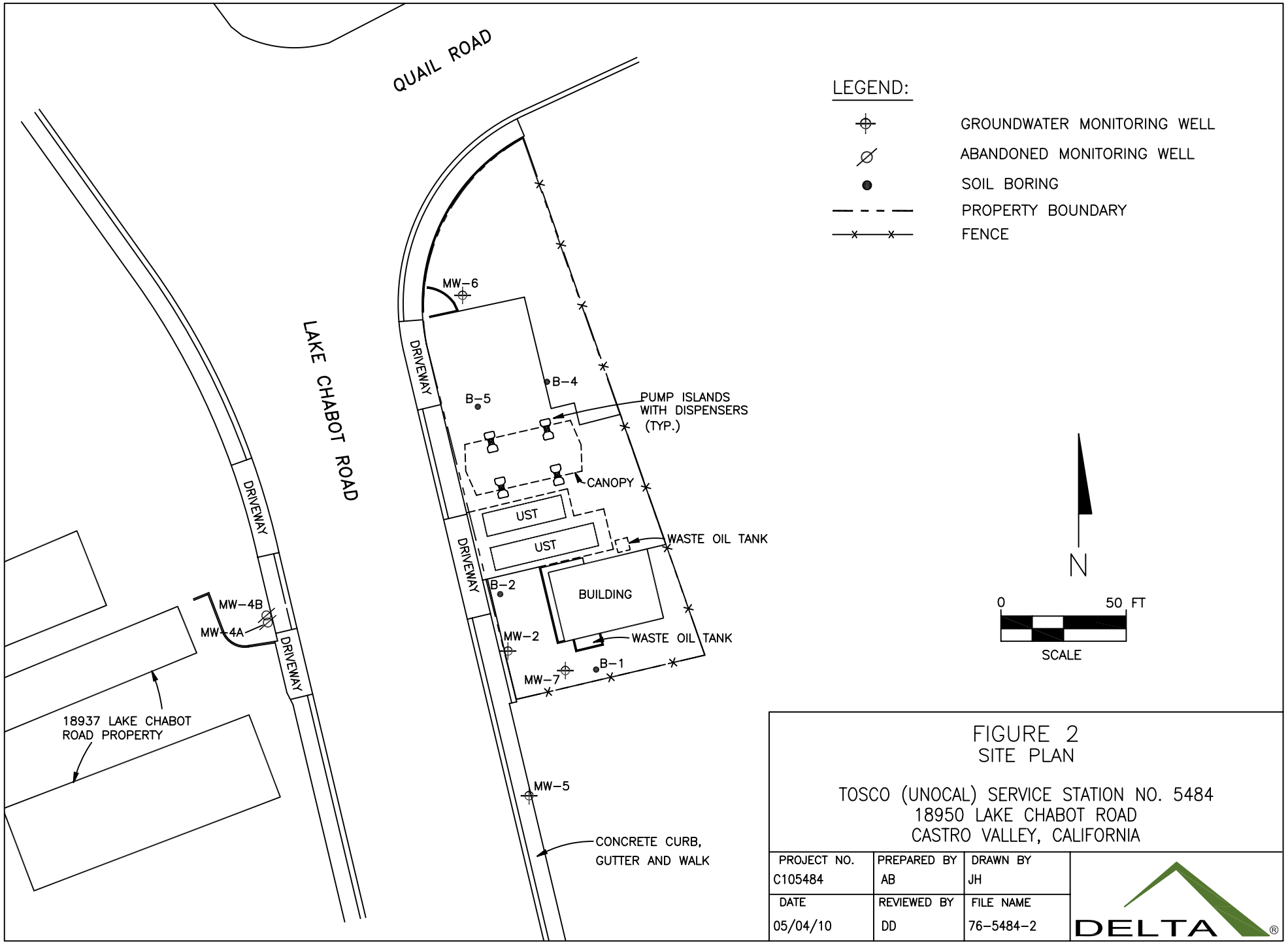


FIGURE 2
SITE PLAN

TOSCO (UNOCAL) SERVICE STATION NO. 5484
18950 LAKE CHABOT ROAD
CASTRO VALLEY, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C105484	AB	JH
DATE	REVIEWED BY	FILE NAME
05/04/10	DD	76-5484-2

DELTA®

Delta
Consultants

Project No:	5484	Client:	COP
Logged By:	E. Weyrens	Location:	Castro Valley
Driller:	Gregg	Date Drilled:	2/18/2009
Drilling Method:	HAS	Hole Diameter:	8"
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Casing Type:	PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	14'
Gravel Pack:	#3	▼ First Water Depth:	
		▽ Static Water Depth:	

Boring/Well No: 4B
Page 1 of 1

Location Map

Elevation: | Northing: | Easting:

Well Completion (Backfill / Casing)	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
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					13	X			Same as above
						X			
		dry	0.8	MW-4B@14	14	X	O		
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				