Nicole Arceneaux
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
Suite 5119
San Ramon, CA 94583
Tel (925) 790-6912
Nicole.Arceneaux@chevron.com

September 16, 2015

Mr. Keith Nowell
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: Well Destruction Report
1629 Webster Street, Alameda, California
Fuel Leak Case No.: RO0000450

Dear Mr. Nowell,

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 contact me at (925) 790-6912.

Sincerely,

Nicole Arceneaux
Union Oil of California – Project Manager

Attachment
Well Destruction Report

ARCADIS
Infrastructure · Water · Environment · Buildings

Imagine the result

Chevron Environmental Management Company

Well Destruction and Site Closure Report

Former Unocal Station No. 0843
1629 Webster Street
Alameda, California

September 11, 2015

ARCADIS

Christine Meyer
Staff Geologist

Katherine Brandt, PG
Senior Geologist

Tonya Russi
Project Manager

Well Destruction and Site Closure Report

Former Unocal Station No. 0843
1629 Webster Street
Alameda, California

Prepared for:
Chevron Environmental Management Company

Prepared by:
ARCADIS U.S., Inc.
2000 Powell Street
7th Floor
Emeryville
California 94608
Tel 510.652.4500
Fax 510.652.4906
www.arcadis-us.com

Our Ref.:
B0047584.2015

Date:
September 11, 2015

ARCADIS

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Acronyms and Abbreviations

ACEH	Alameda County Environmental Health
ACPWA	Alameda County Public Works Agency
ARCADIS	ARCADIS U.S., Inc.
bgs	below ground surface
City	City of Alameda
Delta	Delta Environmental Consultants
HASP	Health and Safety Plan
MTBE	methyl tertiary butyl ether
report	Well Destruction and Site Closure Report
RWQCB	Regional Water Quality Control Board
site	former Unocal Station No. 0843, located at 1629 Webster Street in Alameda, California
Union Oil	Union Oil Company of California

1. Introduction

On behalf of Chevron Environmental Management Company's affiliate, Union Oil Company of California (Union Oil), ARCADIS U.S., Inc. (ARCADIS) prepared this Well Destruction and Site Closure Report (report) for the former Unocal Station No. 0843, located at 1629 Webster Street in Alameda, California (site; Figures 1 and 2).

The site is an active leaking underground storage tank cleanup site (Alameda County Case No. RO0000450). The site is currently part of a joint offsite methyl tertiary butyl ether (MTBE) investigation with the Shell Service Station #13-5032 (Alameda County Case No. RO0002745, Shell Service Station), located at 1601 Webster Street, directly south and upgradient of the site. The joint investigation is being conducted to delineate the vertical and horizontal extents of MTBE in deep zone groundwater (20 to 40 feet below ground surface [bgs]). In letters dated April 24 and July 1, 2015 (Appendix A), ACEH approved destruction of the site monitoring wells.

2. Site Description

The site is a rectangular-shaped property (Alameda County Assessor's Parcel # 74-430-1-1) that currently contains an active auto service and repair shop with a parking lot. The site will be developed for retail space with residential units above the stores, and is anticipated to be a lot-line to lot-line slab-on-grade construction.

All underground storage tanks, dispenser islands, and associated product piping were removed when the former Unocal Service Station was decommissioned. Property in the immediate vicinity of the site is mixed-use residential and commercial. The site is bounded to the north by Pacific Avenue, to the east by Webster Street, and to the south and west by commercial property. Twelve active groundwater monitoring wells (MW-1, MW-1AR, MW-1BR, and MW-3 through MW-11) and one temporary sparge point (TSP-1) are currently associated with the site (Figure 2). The site owner plans to redevelop the property in the next few months.

3. Geology and Hydrogeology

3.1 Regional and Site Geology

The site is located at the eastern portion of the San Francisco Bay and is underlain by interbedded Holocene-age marine beach and near-shore deposits, primarily composed of semiconsolidated, well-graded to poorly graded sand, silty sand/sandy silt, silt, and

clayey sand, with interbedded silt and clay lenses less than 2 feet in thickness (Delta Environmental Consultants [Delta] 2010). During previous investigation activities, borings were advanced to a maximum depth of 55 feet bgs.

3.2 Regional and Site Hydrogeology

The site is located within the San Francisco Bay area and is bounded to the southwest by the bay and to the north-northeast by the Oakland Inner Harbor (Figure 1). San Francisco Bay marks a natural topographic separation between the northern and southern coastal mountain ranges. The San Francisco Bay estuarine system conveys the waters of the Sacramento and San Joaquin rivers into the Pacific Ocean. The rivers enter the bay through the delta at the eastern end of Suisun Bay (Regional Water Quality Control Board [RWQCB] 2011). Boring advancement data indicate that the first water was encountered at depths ranging from 4 to 19 feet bgs at the site.

Quarterly groundwater monitoring and reporting have been conducted at the site since March 1999. Data from these monitoring events indicate that the static depth to groundwater varies from 4.5 to 9.5 feet bgs. The groundwater elevation has increased in site monitoring wells by approximately 4 feet since late 2008. Groundwater seasonal fluctuation varies by less than 2 feet. The groundwater flow direction is generally to the north-northeast, with infrequent variations to the northwest.

During the most recent groundwater monitoring event conducted on February 12, 2015, the depth to groundwater ranged from 11 to 12.44 feet bgs. The groundwater flow direction was to the northeast with a hydraulic gradient of 0.003 foot per foot.

4. Scope of Work

The activities associated with destruction of the site monitoring wells included:

- Notify the property owner and the RWQCB at least 10 days prior to initiating field work.
- Destroy eight shallow zone groundwater monitoring well locations, two onsite deep zone groundwater monitoring well locations, and two offsite shallow zone groundwater monitoring well locations via pressure grouting.
- Destroy one TSP-1 by overdrilling (the 1-inch casing size is too small to pressure grout).

5. Field Activities

5.1 Health and Safety

Field activities were completed with safety as a foremost concern. ARCADIS prepared a Health and Safety Plan (HASP) for the site, which addressed the proposed monitoring well and TSP-1 destruction activities at the site. The HASP is intended to identify and prevent potential safety hazards.

Utilities were located and marked prior to destruction activities by a private utility locator. Underground Services Alert was notified a minimum of 72 hours prior to initiating field activities. Cruz Brothers, LLC, a private utility locator, was contracted to complete an additional line of evidence. Utilities were noted running adjacent to offsite wells MW-5 and MW-6.

The City of Alameda (City) was contacted to verify the preferred surface completion method for wells MW-5 and MW-6 in the City's right of way. ARCADIS requested a variance from the City to leave the well vault collars in place and filled with concrete due to the proximity of the utilities. The City granted the variance and the Alameda County Public Works Agency (ACPWA) was notified of the variance. The related correspondence is provided in Appendix B.

5.2 Well Destruction Permits

The ACPWA required well destruction permits prior to implementing the field work. The City required a right of way permit prior to implementing the utility clearance and well destruction activities in Webster Street. The permits were acquired prior to the private utility locate and were renewed before the offsite well destruction activities for MW-5 and MW-6. All associated permits are provided in Appendix C.

5.3 Well Destruction Activities

Ten shallow monitoring wells, two deep monitoring wells, and TSP-1 were destroyed in preparation for site redevelopment (Figure 2). ACEH approved these wells for destruction in their letter dated July 1, 2015 The wells included:

- Shallow zone groundwater monitoring wells (onsite): MW-1, MW-1AR, MW-1BR, MW-3, MW-4, MW-9, MW-10, and MW-11
- Temporary sparge point (onsite): TSP-1

- Shallow zone groundwater monitoring wells (offsite): MW-5 and MW-6
- Deep zone groundwater monitoring wells (onsite): MW-7 and MW-8

Each monitoring well was pressure grouted with neat cement. TSP-1 was overdrilled using a 10-inch-diameter auger to the total depth, per ACPWA regulations for 1-inch-diameter wells. Prior to the advancement of the auger, TSP-1 was visually inspected for subsurface obstructions and utilities using an air knife to 8 feet 1 inch bgs.

Associated flush-mount well vaults were removed and backfilled with concrete to match the surface grade. Exceptions to the removal of well vaults include MW-5 and MW-6, which are located in the public right-of-way.

Well destruction logs were generated to document the field measurements for the wells prior to destruction and the amount of materials used in the destruction process (Appendix D). The total depth of the wells, including TSP-1, were confirmed prior to the well destruction activities. Well construction details, including total depths, are listed in Table 1. The original Department of Water Resources Water Well Drillers Report (DWR Form 188) was signed by the driller and submitted to Department of Water Resources on September 9, 2015 (Appendix E).

6. Management of Investigation-Derived Waste

Soil cuttings and decontamination water from the well destruction activities were temporarily stored onsite in properly labeled Department of Transportation-approved 55-gallon steel drums, pending waste profiling results. Investigation-derived waste was transported by Belshire Environmental Services to Waste Management Altamont Landfill, located in Livermore, California. The initial transport manifest is included as Appendix F.

7. Conclusion

ARCADIS has completed all site activities relating to ACEH fuel leak case RO0000450. ARCADIS considers this site investigation closed pending approval by ACEH.

8. References

Delta. 2010. Corrective Action Plan, 76 Service Station No. 0843, 1629 Webster Street, Alameda, California. April 7.

RWQCB. 2011. San Francisco Bay Basin (Region 2) Water Quality Control Plan. December 31.

ARCADIS

Table

Table 1
Well Construction Details
Unocal Service Station No. 0843
1629 Webster Street
Alameda, California

Well ID	Installation Date	TOC Elevation (feet aMSL)	Boring Depth (ft bgs)	Well Depth (ft bgs)	Boring Diameter (inches)	Well Diameter (inches)	Screen Interval (ft bgs)	Screen Size (inches)	Sand Filter Pack	Screen Zone Within Soil Type	Filter Pack Interval (ft bgs)	Seal Interval (ft bgs)	Well Location
MW-1	3/2/1999	19.13	20.5	20.5	8	2	5-20.5	0.020	#3	SP/SC	5-20.5	4-5	Onsite
MW-1AR	5/13/2009	19.29	30.5	30.5	8	2	25-30.5	0.020	#3	SM	23-30.5	21-23	Onsite
MW-1BR	5/15/2009	19.13	35	35	8	2	30-35	0.020	#3	SM	28-35	26-28	Onsite
MW-2	3/2/1999	15.57	20.5	20.5	8	2	5-20.5	0.020	#3	SP	5-20.5	4-5	Onsite
MW-2A	12/5/2002	15.56	--	11.5	--	2	--	--	--	--	--	--	Onsite
MW-3	3/2/1999	18.05	20.5	20.5	8	2	5-20.5	0.020	#3	ML	5-20.5	4-5	Onsite
MW-4	3/2/1999	18.14	20.5	20.5	8	2	5-20.5	0.020	#3	ML	5-20.5	4-5	Onsite
MW-5	12/8/1999	16.45	21.5	20	8	2	5-20	0.010	#2/12	CL/SM	4.5-21.5	3.5-4.5	Offsite
MW-6	12/8/1999	16.97	21.5	20	8	2	5-20	0.010	#2/12	SM	4.5-21.5	3.5-4.5	Offsite
MW-7	5/14/2009	17.81	30	30	8	2	25-30	0.020	#3	SC	23-30	21-23	Onsite
MW-8	5/14/2009	18.13	30	30	8	2	25-30	0.020	#3	SW-SM	23-30	21-23	Onsite
MW-9	5/13/2009	18.75	25	25	8	2	20-25	0.020	#3	SW-SM	18-25	16-18	Onsite
MW-10	5/20/2009	18.84	30	30	8	2	25-30	0.020	#3	SM	23-30	21-23	Onsite
MW-11	5/15/2009	18.72	28	28	8	2	23-28	0.020	#3	SC	21-28	19-21	Onsite
TSP-1	5/14/2009	--	30.5	30	8	0.75	--	0.020	#3	SM	25-30.5	20-25	Onsite

Abbreviations

ft aMSL	Feet above Mean Sea Level
ft bgs	Feet below ground surface
GWE	Groundwater elevation
--	Not available
SP	Poorly-graded sand
SW - SM	Well-graded silt and sand
SM	Silty sand
ML	Silt
CL	Clay
SC	Clayey sand

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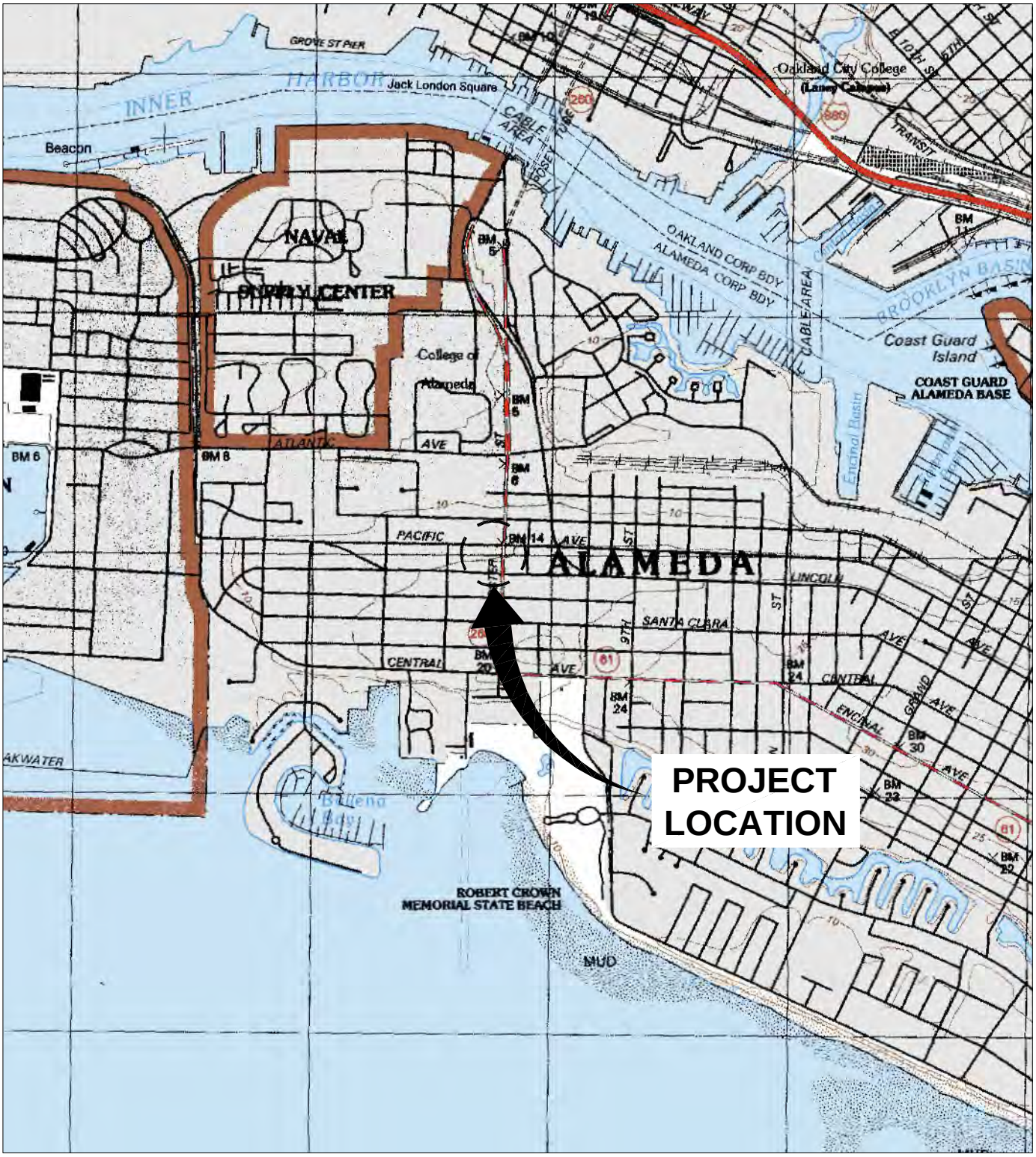
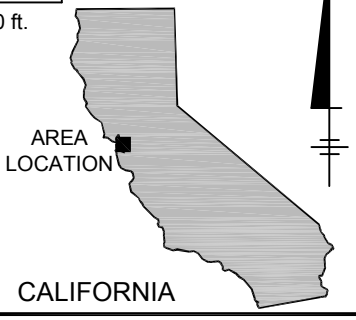
Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND WEST, CALIFORNIA, 1993.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



UNION OIL
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE LOCATION MAP

ARCADIS

FIGURE
1

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD: J. HARRIS PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Petaluma\ACT\B0047584\0000\0001\DWG\47584N01.dwg LAYOUT: 1SAVED: 4/19/2011 11:40 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 4/20/2011 10:57 AM BY: HARRIS, JESSICA
XREFS: IMAGES: PROJECTNAME: ---
Oakland West.jpg

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
C:\Users\jharris\Desktop\ENVCAD\B0047584\2014\00001\WORK PLAN\DWG\47584B01.dwg LAYOUT: 2 SAVED: 2/19/2014 12:07 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 2/19/2014 12:54 PM BY: HARRIS, JESSICA

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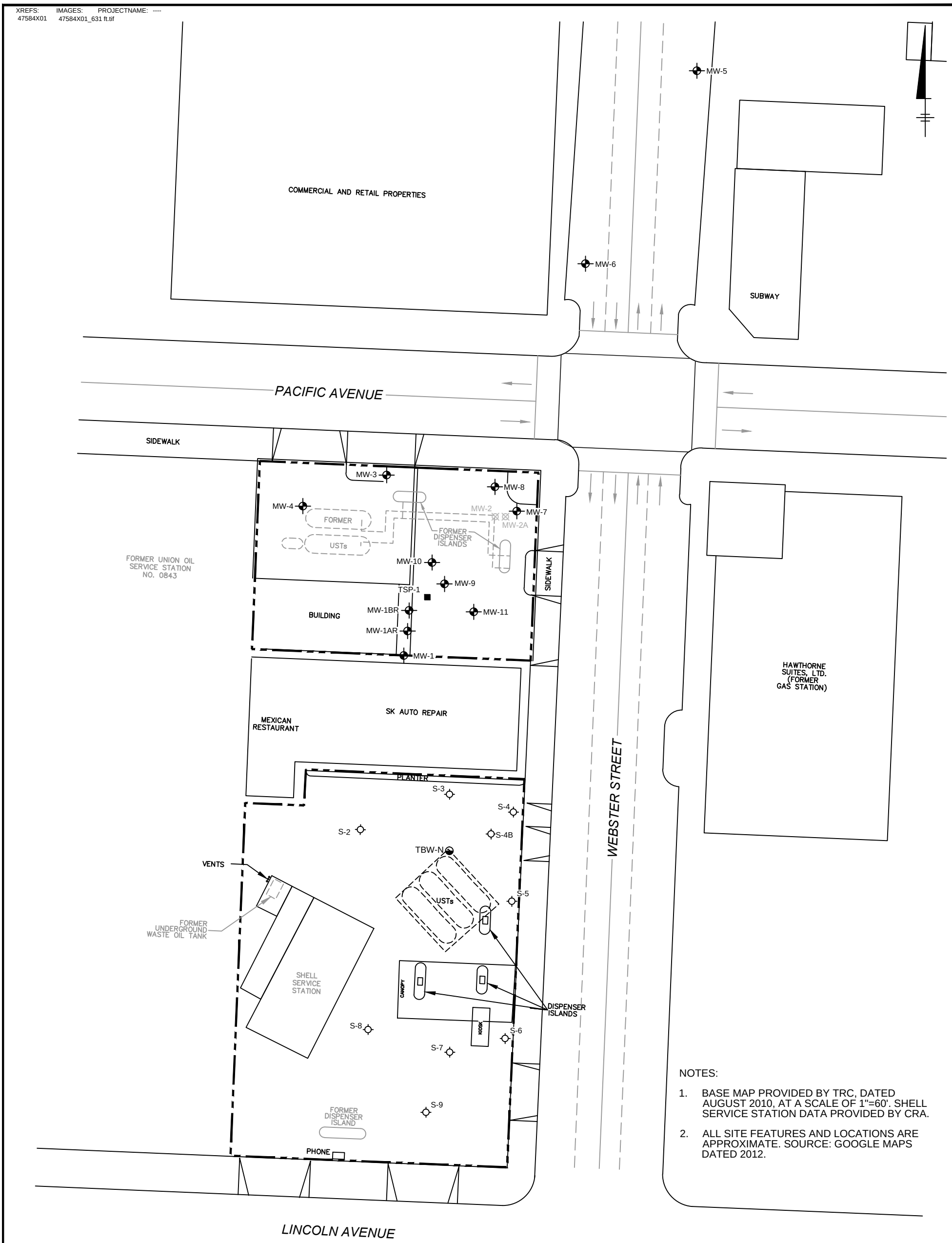

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER UNION OIL SERVICE STATION NO. 0843 MONITORING WELL (SHALLOW AND DEEP)
- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

Appendix A

Alameda County Environmental Health Communication

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 24, 2015

Nicole Arceneaux
Chevron Corporation
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via email to: Nicole.Arceneaux@chevron.com)

Ed Ralston
Phillips 66 Company
76 Broadway
Sacramento, CA 95818
(Sent via E-mail to: Ed.C.Ralston@p66.com)

Sam and Michele Koka
802 Pacific Avenue
Alameda, CA 94501
(Sent via email to: skauto@alamedanet.net and mjkoka@alamedanet.net)

Subject: Landowner Identification for Case Closure Consideration for Fuel Leak Case No. RO0000450 (GeoTracker Global IDT0600102263), Unocal #0843, 1629 Webster Street, Alameda, CA 94501

Dear Responsible Parties:

Alameda County Environmental Health (ACEH) is considering the above referenced site for potential case closure. As you are aware a site investigation and groundwater monitoring for underground storage tank leaks has been performed at the subject property to which you are named as the primary or active responsible parties.

List of Landowners Form

Pursuant to Section 25297.15 (a) of the California Health and Safety Code, Alameda County Environmental Health (ACEH), the local agency, shall not consider cleanup or site closure proposals from the primary or active responsible party, issue a closure letter, or make a determination that no further action is required with respect to a site upon which there was an unauthorized release of hazardous substances from an underground storage tank subject to this chapter unless all current record owners of fee title to the site of the proposed action have been notified of the proposed action by the primary or active responsible party. ACEH is required to notify the primary or active responsible party of their requirement to certify in writing to the local agency that the notification requirement in the above-mentioned regulation has been satisfied and to provide the local agency with a complete mailing list of all record fee title owners.

To satisfy this requirement, please complete the enclosed *List of Landowners Form*, and return it to ACEH by the date identified below.

Site Management Requirements

ACEH staff has evaluated the case file and believes the case may be eligible for closure. Closure would be under a commercial land use scenario with site management requirements, as residual soil contamination remains in soil beneath the site. ACEH required preparation of a Site Management Plan (SMP) addressing potential contaminants of concern should excavation or construction activities occur in

areas of residual contamination. These activities require planning and implementation of appropriate health and safety procedures by the responsible party (or current property owner/developer) prior to and during excavation and construction activities. The SMP, dated July 17, 2014, was prepared by Arcadis U.S. Inc. (Arcadis) for the subject site and approved by ACEH July 23, 2014.

Re-evaluation of this case is required if land uses changes to any residential or other conservative land use, or any redevelopment occurs as residual contamination is documented to remain in the soil beneath the site.

Public Participation

Public participation is a requirement for the Corrective Action Plan and case closure processes. In order to notify potentially affected members of the public of the potential fuel leak case closure, *Notification of Potential Case Closure* will be distributed to addresses in the immediate vicinity. The *Notification of Potential Case Closure* requests that landowners or residents submit any comments or questions to ACEH regarding potential case closure. ACEH will consider all comments from the public prior to potential case closure.

Monitoring Well Destruction and Waste Removal Activities

After public comments have been addressed you will be requested to destroy site monitoring wells and remove any remaining investigation, remediation, and well destruction derived waste from the site.

ACEH will request the well destruction in a separate letter following the conclusion of the public notification period.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Keith Nowell), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- **April 28, 2015** – Public Comment Period Begins
- **May 1, 2015** – Return of *List of Landowner Form* (provided via E-mail or surface mail to ACEH, Attention: Keith Nowell)
- **June 27, 2015** – End of Public Comment Period (Provided all required comments have been adequately addressed)
- **4 Weeks After Completion of All Required Submittal Tasks** – Uniform Closure Letter Issued (Provided all required documents have been submitted and approved)

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.

Sincerely,

Keith Nowell

Digitally signed by Keith Nowell
DN: cn=Keith Nowell, o=Alameda County, ou=Department of Environmental Health, email=keith.nowell@acgov.org, c=US
Date: 2015.04.24 15:29:15 -07'00'

Keith Nowell, PG, CHG

Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements/Obligations and Electronic Report Upload (ftp) Instructions
Attachment 2 - *List of Landowners Form*

Attachment A – *Invitation to Comment – Potential Case Closure*
Attachment B – Mailing List

cc: Katherine Brant, Arcadis US, Inc. 2000 Powell Street, 7th Floor, Emeryville, CA 94608 (*Sent via E-mail to*: *Katherine.Brandt@arcadis-us.com*)

Susan Hugo, ACEH (*Sent via E-mail to: susan.hugo@acgov.org*)

Dilan Roe, ACEH (*Sent via E-mail to: dilan.roe@acgov.org*)
Keith Nowell, ACEH (*Sent via E-mail to: keith.nowell@acgov.org*)
GeoTracker, e-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.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

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.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** May 15, 2014
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

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

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**.
- 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)

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 deh.loptoxic@acgov.org
   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, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   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 deh.loptoxic@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.

ATTACHMENT 2

List of Landowners Form

LIST OF LANDOWNERS FORM

County of Alameda
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

CERTIFIED LIST OF RECORD FEE TITLE OWNERS FOR:

Site Name: Unocal #0843

Address: 1629 Webster Street

City, State, Zip: Alameda, CA 94501

Record ID #: RO0000450

Please fill out item 1 if there are multiple site landowners (attach an extra sheet if necessary). If you are the sole site landowner, skip item 1 and fill out item 2.

1. In accordance with Section 25297.15(a) of Chapter 6.7 of the California Health & Safety Code, I, _____ (name of primary responsible party), certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:

   Name: _____

   Address: _____

   City, State, Zip: _____
   E-mail
   Address: _____

   Name: _____

   Address: _____

   City, State, Zip: _____
   E-mail
   Address: _____

   Name: _____

   Address: _____

   City, State, Zip: _____
   E-mail
   Address: _____

2. In accordance with Section 25297.15(a) of Chapter 6.7 of the California Health & Safety Code, I _____, certify that I am the sole landowner for the above site.

Sincerely,

_____	_____	_____	_____
Signature of Primary Responsible Party	Printed Name	Date	E-mail Address

ATTACHMENT A

Invitation to Comment – Potential Case Closure

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

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

INVITATION TO COMMENT – POTENTIAL CASE CLOSURE

UNOCAL #0843
1629 WEBSTER STREET, ALAMEDA, CA 94501
FUEL LEAK CASE NO. RO0000450
GEOTRACKER GLOBAL ID T0600102263

April 30, 2015

The above referenced site is a fuel leak case that is under the regulatory oversight of the Alameda County Environmental Health (ACEH) Local Oversight Program for the investigation and cleanup of a release of petroleum hydrocarbons from an underground storage tank system. Site investigation and cleanup activities have been completed and the site has been evaluated in accordance with the State Water Resources Control Board Low-Threat Closure Policy. The site appears to meet all of the criteria in the Low-Threat Closure Policy. Therefore, ACEH is considering closure of the fuel leak case. Due to the residual contamination on site, the site would be closed as a commercial property with site management requirements that require further evaluation if the site is to be redeveloped in the future to a more conservative land use.

The public is invited to review and comment on the potential closure of the fuel leak case. This notice is being sent to the current occupants and landowners of the site and adjacent properties and other known interested parties. The entire case file can be viewed over the Internet on the ACEH website (http://www.acgov.org/aceh/lop/ust.htm) or the State of California Water Resources Control Board GeoTracker website (http://geotracker.waterboards.ca.gov). Please send written comments to Keith Nowell at the address below; all comments will be forwarded to the responsible parties. Comments **received by June 29, 2015** will be considered and responded to prior to a final determination on the proposed case closure.

If you have comments or questions regarding this site, please contact the ACEH caseworker, Keith Nowell at (510) 567--6764 or by email at keith.nowell@acgov.org. Please refer to ACEH case RO0000450 in any correspondence.

ATTACHMENT B

Mailing List

DDJ PROPERTY HOLDING INC
PARCEL #: 73-417-1
2501 NORTH MAIN ST
WALNUT CREEK CA 94597-3122

OCCUPANT
PARCEL #: 73-417-2
706 BUENA VISTA AVE
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 73-417-3
710 BUENA VISTA AVE
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 73-417-4
714 BUENA VISTA AVE
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 73-417-5-1
718 BUENA VISTA AVE
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 73-417-7
1717 CONCORDIA ST
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 73-417-8
729 PACIFIC AVE
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 73-417-9
713 PACIFIC AV
ALAMEDA 94501

OCCUPANT
PARCEL #: 73-417-10
709 PACIFIC AV
ALAMEDA 94501

OCCUPANT
PARCEL #: 73-417-12-1
1704 WEBSTER ST
ALAMEDA 94501

OCCUPANT
PARCEL #: 73-417-1
1720 WEBSTER ST
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 73-417-2
706 BUENA VISTA AV
ALAMEDA 94501

OCCUPANT
PARCEL #: 73-417-3
710 BUENA VISTA AV
ALAMEDA 94501

OCCUPANT
PARCEL #: 73-417-4
714 BUENA VISTA AV
ALAMEDA 94501

OCCUPANT
PARCEL #: 73-417-5-1
718 BUENA VISTA AV
ALAMEDA 94501

OCCUPANT
PARCEL #: 73-417-7
1719 CONCORDIA ST
ALAMEDA 94501

OCCUPANT
PARCEL #: 73-417-8
729 PACIFIC AV
ALAMEDA 94501

CHUNG TRU C & CUC T TRS
PARCEL #: 73-417-10
1715 ARBOR ST
ALAMEDA CA 94501-1216

1700 WEBSTER STREET LLC
PARCEL #: 73-417-12-1
5145 HEAVENLY RIDGE LN
RICHMOND CA 94803-2543

OCCUPANT
PARCEL #: 73-417-12-1
1706 WEBSTER ST
ALAMEDA 94501

FRANKLIN DAVID L & SUSAN A
PARCEL #: 73-417-2
38632 FULLER DR
PALM DESERT CA 92260-1231

FRANKLIN DAVID L & SUSAN A
PARCEL #: 73-417-3
38632 FULLER DR
PALM DESERT CA 92260-1231

FRANKLIN DAVID L & SUSAN A
PARCEL #: 73-417-4
38632 FULLER DR
PALM DESERT CA 92260-1231

HUANG TERRI L
PARCEL #: 73-417-5-1
230 KINGFISHER AVE
ALAMEDA CA 94501-3996

RATTO THOMAS B & DIANE V TRS & CANEPA
PARCEL #: 73-417-7
PO BOX 2462
ARNOLD CA 95223-2462

CHIN SABRINA
PARCEL #: 73-417-8
1121 ROSEWOOD WAY
ALAMEDA CA 94501-5635

PUCCI JOSEPH R & NAMKHAM UTUMPORN
PARCEL #: 73-417-9
713 PACIFIC AVE
ALAMEDA CA 94501-2128

OCCUPANT
PARCEL #: 73-417-10
709 PACIFIC AVE
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 73-417-12-1
1700 WEBSTER ST
ALAMEDA CA 94501

XING YI K & YI W
PARCEL #: 73-417-14-1
1712 WEBSTER ST
ALAMEDA CA 94501-2136

DDJ PROPERTY HOLDING INC
PARCEL #: 73-417-15
2501 NORTH MAIN ST
WALNUT CREEK CA 94597-3122

OCCUPANT
PARCEL #: 73-417-15
1716 WEBSTER ST
ALAMEDA CA 94501

ALAMEDA HOSPITALITY LLC
PARCEL #: 73-418-4-1
1628 WEBSTER ST
ALAMEDA CA 94501-2134

OCCUPANT
PARCEL #: 73-418-4-1
1620 WEBSTER ST
ALAMEDA 94501

OCCUPANT
PARCEL #: 73-418-4-1
1624 WEBSTER ST
ALAMEDA 94501

KOKA SAM & MICHELLE J
PARCEL #: 74-430-1-1
802 PACIFIC AVE
ALAMEDA CA 94501-2254

OCCUPANT
PARCEL #: 74-430-1-1
650 PACIFIC AVE
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 74-430-1-1
650 PACIFIC AV
ALAMEDA 94501

CAMPOS JOSE J & SOCORRO
PARCEL #: 74-430-3-1
1438 39TH AVE
OAKLAND CA 94601-4122

OCCUPANT
PARCEL #: 74-430-3-1
1619 WEBSTER ST
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 74-430-3-1
644 PACIFIC AV
ALAMEDA 94501

ELDERS INN LLC & ELDERS INN ON WEBSTE
PARCEL #: 74-431-2-1
1721 WEBSTER ST
ALAMEDA CA 94501-2135

OCCUPANT
PARCEL #: 74-431-2-1
1719 WEBSTER ST
ALAMEDA CA 94501

ELDERS INN LLC & ELDERS INN ON WEBSTE
PARCEL #: 74-431-2-2
1721 WEBSTER ST
ALAMEDA CA 94501-2135

OCCUPANT
PARCEL #: 74-431-2-2
1725 WEBSTER ST
ALAMEDA CA 94501

ELDERS INN LLC & ELDERS INN ON WEBSTE
PARCEL #: 74-431-2-3
1721 WEBSTER ST
ALAMEDA CA 94501-2135

OCCUPANT
PARCEL #: 74-431-2-3
1719 WEBSTER ST
ALAMEDA CA 94501

ELDERS INN LLC & ELDERS INN ON WEBSTE
PARCEL #: 74-431-3
1721 WEBSTER ST
ALAMEDA CA 94501-2135

OCCUPANT
PARCEL #: 74-431-3
1715 WEBSTER ST
ALAMEDA CA 94501

TIMBER DELL PROPERTIES LLC
PARCEL #: 74-431-4
1406 WEBSTER ST
ALAMEDA CA 94501-3825

OCCUPANT
PARCEL #: 74-431-4
1711 WEBSTER ST
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 74-431-4
649 PACIFIC AV
ALAMEDA 94501

OCCUPANT
PARCEL #: 74-431-4
1701 WEBSTER ST
ALAMEDA 94501

OCCUPANT
PARCEL #: 74-431-4
1707 WEBSTER ST
ALAMEDA 94501

OCCUPANT
PARCEL #: 74-431-4
1713 WEBSTER ST
ALAMEDA 94501

TIMBER DELL PROPERTIES LLC &
PARCEL #: 74-431-5
1406 WEBSTER ST
ALAMEDA CA 94501-3825

OCCUPANT
PARCEL #: 74-431-5
643 PACIFIC AVE
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 74-431-5
643 PACIFIC AV
ALAMEDA 94501

CITY OF ALAMEDA
PARCEL #: 74-431-6
2263 SANTA CLARA AVE
ALAMEDA CA 94501-4477

OCCUPANT
PARCEL #: 74-431-6
635 PACIFIC AVE
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 74-431-6
635 PACIFIC AV
ALAMEDA 94501

CHAN LILY & NORMAN M
PARCEL #: 74-431-8
621 PACIFIC AVE
ALAMEDA CA 94501-2126

OCCUPANT
PARCEL #: 74-431-8
621 PACIFIC AV
ALAMEDA 94501

ALDRICH SUSAN
PARCEL #: 74-431-9
617 B PACIFIC AVE
ALAMEDA CA 94501-2174

OCCUPANT
PARCEL #: 74-431-9
617 PACIFIC AVE #B
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 74-431-9
617 PACIFIC AV B #B
ALAMEDA 94501

HOYE SALLY J
PARCEL #: 74-431-13
617 PACIFIC AVE #A
ALAMEDA CA 94501-2174

OCCUPANT
PARCEL #: 74-431-13
617 PACIFIC AV A #A
ALAMEDA 94501

KEENAN THOMAS E III & JACQUELINE U TRS
PARCEL #: 74-431-14
617 PACIFIC AVE
ALAMEDA CA 94501-8209

OCCUPANT
PARCEL #: 74-431-14
617 PACIFIC AV
ALAMEDA 94501

LEAHY BARBARA
PARCEL #: 74-431-15
613 PACIFIC AVE
ALAMEDA CA 94501-2126

OCCUPANT
PARCEL #: 74-431-15
613 PACIFIC AV
ALAMEDA 94501

VOISENAT MARC & NILDA TRS
PARCEL #: 74-431-16
536 PALACE CT
ALAMEDA CA 94501-3733

OCCUPANT
PARCEL #: 74-431-16
617 PACIFIC AVE #G
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 74-431-16
617 PACIFIC AV G #G
ALAMEDA 94501

GENTRY BRIAN & MELINDA
PARCEL #: 74-431-17
617 PACIFIC AVE #F
ALAMEDA CA 94501-2174

OCCUPANT
PARCEL #: 74-431-17
617 PACIFIC AV X #X
ALAMEDA 94501

PATUBO WALDETRUDIS A & VICK P
PARCEL #: 74-431-19
609 PACIFIC AVE
ALAMEDA CA 94501-2126

OCCUPANT
PARCEL #: 74-431-19
609 PACIFIC AV
ALAMEDA 94501

WAN VINCENT L & MANDY TRS
PARCEL #: 74-431-20
605 PACIFIC AVE
ALAMEDA CA 94501-2126

OCCUPANT
PARCEL #: 74-431-20
605 PACIFIC AV
ALAMEDA 94501

HANE ESTER A
PARCEL #: 74-431-21
603 PACIFIC AVE
ALAMEDA CA 94501-2126

OCCUPANT
PARCEL #: 74-431-21
603 PACIFIC AV
ALAMEDA 94501

AGUON AMY M & KENNETH F
PARCEL #: 74-431-22
601 PACIFIC AVE
ALAMEDA CA 94501-2126

OCCUPANT
PARCEL #: 74-431-22
601 PACIFIC AV
ALAMEDA 94501

YOUNG LOUISE J TR
PARCEL #: 74-431-27-2
5574 BERWIND AVE
LIVERMORE CA 94551-1248

OCCUPANT
PARCEL #: 74-431-27-2
1727 WEBSTER ST
ALAMEDA CA 94501

YOUNG LOUISE J TR
PARCEL #: 74-431-27-3
5574 BERWIND AVE
LIVERMORE CA 94551-1248

OCCUPANT
PARCEL #: 74-431-27-3
640 BUENA VISTA AVE
ALAMEDA CA 94501

OCCUPANT
PARCEL #: 74-431-27-3
642 BUENA VISTA AV
ALAMEDA 94501

OCCUPANT
PARCEL #: 74-431-27-3
640 BUENA VISTA AV
ALAMEDA CA 94501

CHANDRA JOHANNESSON
EBMUD INDUST DISCHRG SECT
P.O. BOX 24055 MS 702
OAKLAND CA 94623-1055

ANDREW THOMAS
CITY OF ALAMEDA PLANNING
AND BUILDING DEPT
2263 SANTA CLARA AVENUE
ALAMEDA CA 94501

BOB HAUN
CITY OF ALAMEDA PUBLIC WORKS
950 W. MALL SQUARE
ALAMEDA CA 94501

MAK WAN TR
PARCEL #: 74-431-29
625 PACIFIC AVE
ALAMEDA CA 94501-2126

OCCUPANT
PARCEL #: 74-431-29
625 PACIFIC AV
ALAMEDA 94501

MELLOR CORDULA & CORDULA
PARCEL #: 74-431-30
627 PACIFIC AVE
ALAMEDA CA 94501-2126

OCCUPANT
PARCEL #: 74-431-30
627 PACIFIC AV
ALAMEDA 94501

CHERIE MCCAULOU
SF BAY RWQCB
1515 CLAY STREET SUITE 1400
OAKAND CA 94612

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

July 1, 2015

Nicole Arceneaux
Chevron Corporation
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via email to: Nicole.Arceneaux@chevron.com)

Ed Ralston
Phillips 66 Company
76 Broadway
Sacramento, CA 95818
(Sent via E-mail to: Ed.C.Ralston@p66.com)

Sam and Michele Koka
802 Pacific Avenue
Alameda, CA 94501
(Sent via email to: skauto@alamedanet.net and mjkoka@alamedanet.net)

Subject: Well Destruction Authorization for Fuel Leak Case No. RO0000450 (GeoTracker Global ID T0600102263), Unocal #0843, 1629 Webster Street, Alameda, CA 94501

Dear Responsible Parties:

The public comment period for the subject site ended on June 29, 2015. No comments were received by Alameda County Environmental Health (ACEH).

You are free to proceed with the destruction of all wells associated with the site (groundwater, vapor, etc), as requested in the June 3, 2015 letter from ACEH. As requested in the letter, please contact the Alameda County Public Works Agency to obtain well destruction permits. Following the well destruction, please provide ACEH with a well destruction report according to the schedule outlined below. The well destruction report should document site activities, provide well destruction permit documentation, and documentation indicating that any and all remaining investigation, remediation, and well destruction derived waste have been removed from the site. The State Water Resources Control Board's (SWRCBs) Well Destruction and Waste Removal Requirements fact sheet is included as an attachment.

TECHNICAL REPORT REQUEST

Please submit reports to Alameda County Environmental Health (Attention: Keith Nowell), and upload technical reports to the ACEH ftp site (Attention: Keith Nowell), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- **July 30, 2015** –Well Destruction Report (file name: RO0000450_WELL_DCM_R_yyyy-mm-dd)

Should you have any questions, please contact me at (510) 567-6764 or send me an electronic mail message at keith.nowell@acgov.org.

Sincerely,

Keith Nowell

Digitally signed by Keith Nowell
DN: cn=Keith Nowell, o=Alameda County, ou=Department of Environmental Health, email=keith.nowell@acgov.org, c=US
Date: 2015.07.01 14:28:20 -07'00'

Keith Nowell, PG, CHG
Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements/Obligations and Electronic Report Upload (ftp) Instructions

Attachment 2 – The State Water Resources Control Board's Well Destruction and Waste Removal Requirements Fact Sheet

cc: Katherine Brant, Arcadis US, Inc. 2000 Powell Street, 7th Floor, Emeryville, CA 94608 (*Sent via E-mail to*: Katherine.Brandt@arcadis-us.com)

James Yoo, Alameda Co. Dept. of Public Works, Water Resources Section, 399 Elmhurst Street, Hayward, CA 94544 (*Sent via E-mail to:* jamesy@acpwa.org)

Susan Hugo, ACEH (*Sent via E-mail to:* susan.hugo@acgov.org)

Dilan Roe, ACEH (*Sent via E-mail to:* dilan.roe@acgov.org)
Keith Nowell, ACEH (*Sent via E-mail to:* keith.nowell@acgov.org)
GeoTracker, e-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.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

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.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** May 15, 2014
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

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

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**.
- 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)

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 deh.loptoxic@acgov.org
   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, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   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 deh.loptoxic@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.

ATTACHMENT 2

Water Boards

Fact Sheet

Well Destruction and Waste Removal Requirements Prior to Underground Storage Tank Case Closure

Background: Proper destruction of wells helps to protect groundwater from potential threats and is a critical component of the Underground Storage Tank (UST) case closure process. The Low-Threat Underground Storage Tank (UST) Case Closure Policy (Policy) mandates that monitoring wells be properly destroyed prior to UST case closure, unless they will be kept and maintained in accordance with applicable local and state requirements. The Policy also mandates that all investigation and remediation-derived waste materials be removed prior to case closure. As of May 15, 2015, there were a total of 836 "Open-Eligible for Closure" cases throughout California, for which remaining wells and wastes served as impediments to closure.

Information for Responsible Parties and Site Owners: If you received a letter from the State Water Resources Control Board (State Water Board), Regional Water Quality Control Board, or a local agency directing well destruction and waste removal, you must take action before your UST case can be closed. A uniform closure letter (UCL) will not be issued for your case until the wastes are removed and the wells are either destroyed or approved for continued maintenance by the regulatory agency overseeing your UST case. Your local well permitting agency may require ongoing monitoring of wells even though the regulatory agency is not requiring it, so additional costs may be incurred. A list of open cases with directives to destroy wells and remove wastes can be viewed on the public GeoTracker webpage at: http://geotracker.waterboards.ca.gov/ptcp_destruction_report.asp.

Note: The State Water Board has the authority to administratively impose civil penalties of up to $10,000 per day per UST on responsible parties and site owners that fail to comply with the requirements of UST case closure order. **Do not let penalties be imposed on you!**

The contractor that helped you with corrective actions at your site can provide more information about the well destruction and waste removal process. If you do not currently have a contractor, you can contact the regulatory agency that is responsible for oversight of your UST case and ask if they have a list of contractors in the area. Your regulatory agency can also let you know if your contractor is required to submit a work plan for approval before well destruction and waste removal begins. Once the work is complete, submit confirmation documentation to the regulatory agency overseeing your UST case. After the well and waste

Important: Check the current standing of any contractor with the California Contractors State License Board. You can do this at the following location on the web: https://www2.cslb.ca.gov/OnlineServices/CheckLicenseII/CheckLicense.aspx

removal has been completed, approved by your regulatory agency, and communicated to the State Water Board, a UCL will be issued and uploaded to GeoTracker.

If you have an eligible claim with the UST Cleanup Fund, the cost of well destruction is considered corrective action and reasonable and necessary costs are typically reimbursable. Monitoring of wells after you have been informed that the wells should be destroyed is not normally considered to be corrective action and may not be eligible for reimbursement. Additional information can be obtained on the State Water Board UST Cleanup Fund (Fund) website at: http://www.waterboards.ca.gov/water_issues/programs/ustcf/. You may also contact the Fund staff by email: ustcleanupfund@waterboards.ca.gov, message phone line: 1-800-813-Fund (3863), or fax: 916-341-5806.

Information for Consultants/Contractors/Drillers: A list of open cases with directives to destroy wells can be viewed on the public GeoTracker webpage at: http://geotracker.waterboards.ca.gov/ptcp_destruction_report.asp. Seek approval with regulatory agencies having jurisdiction before performing any well destruction work. Encroachment permits and/or access agreements may also be necessary. A list of local well-permitting agencies can be found at: http://water.ca.gov/groundwater/wells/permitting.cfm

Reference: *Plan for Implementation of Low-Threat UST Case Closure Policy and Additional Program Improvements* (http://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2012/110612_6_final_ltcp%20imp%20plan.pdf).

(This fact sheet was last updated May 21, 2015.)

ARCADIS

Appendix B

Surface Completion Variance
Approval Correspondence

Meyer, Christine

From: Philip Lee <plee@alamedaca.gov>
Sent: Tuesday, July 28, 2015 5:29 PM
To: Meyer, Christine
Subject: RE: monitoring well decommissioning-1629 Webster Street

Christine,

Leave the well vault collars in place and filling the void with concrete to finished grade. No need to dye the concrete black since the concrete collar around the well vault collar is not dyed.

Thanks,
Philip

From: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Sent: Tuesday, July 28, 2015 3:43 PM
To: Philip Lee
Subject: RE: monitoring well decommissioning-1629 Webster Street

Hi Philip,

We completed the utility locate in preparation for the work and noticed that there are a lot of utilities, most notably a water line and a gas line, running really close to the well vaults. Please find the photos of the locations attached. The proximity of the lines is a source of concern as we do not want to risk hitting a utility, especially a gas line. Does your engineer want to consider an authorization for a variance to allow us to either leave the well vault collars in place (remove the vault lids and fill with concrete) or to seal the vault lids in using Loctite? Please let me know if you have any questions.

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com
ARCADIS U.S., Inc |2999 Oak Road, Suite 300 | Walnut Creek, CA 94597
T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com

From: Philip Lee [mailto:plee@alamedaca.gov]
Sent: Thursday, July 16, 2015 2:58 PM
To: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Cc: Brandt, Katherine <Katherine.Brandt@arcadis-us.com>; Russi, Tonya <Tonya.Russi@arcadis-us.com>; Moniz, Robert <Robert.Moniz@arcadis-us.com>; Maurel, Sean <Sean.Maurel@arcadis-us.com>
Subject: RE: monitoring well decommissioning-1629 Webster Street

Hi Christine,

Your questions were forwarded to the engineer that happened to be reviewing Arcadis' permit EX15-0064 that was submitted on 7/13/15. Below are his comments to the permit. We will be sending all of our comments (including traffic) to the Permits Office on Monday. Please note our offices are closed on Fridays.

1. The well head shall be removed and disposed of.
2. If possible, the casing should be removed prior to sealing.
3. The well shall be sealed from the bottom to within 2 feet of the street surface by pressuring grouting. Grout may consist of Portland Cement, Concrete Bentonite, or Bentonite Chips.
4. The remainder of the well shall be filled with concrete to the final grade. Rapid setting concrete such as Quickcrete may be used and then dyed black to match the road.

Thanks,
Philip

From: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Sent: Wednesday, July 15, 2015 3:33 PM
To: Philip Lee
Cc: Brandt, Katherine; Russi, Tonya; Moniz, Robert; Maurel, Sean
Subject: RE: monitoring well decommissioning-1629 Webster Street

Hi Philip,

I wanted to confirm with you about the specifications for the top 6 inches of concrete. Can we keep it within the ~8 inch diameter original cut that is currently occupied by the vault and its associated concrete? Is standard Quickcrete acceptable or do we have to get a specific mix? Do you want it dyed black to match the road?

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com
ARCADIS U.S., Inc |2999 Oak Road, Suite 300 | Walnut Creek, CA 94597
T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com

From: Meyer, Christine
Sent: Monday, July 13, 2015 11:10 AM
To: 'Philip Lee'
Subject: RE: monitoring well decommissioning-1629 Webster Street

HI Philip,

Is there a specific concrete grade or mix that we need to use since the area is in the road and surrounded by asphalt? Can we just remove the vault area itself and fill from there or does it have to be stepped out a certain distance? Do you want us to saw cut the asphalt?

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com
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T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com

From: Philip Lee [mailto:plee@alamedaca.gov]
Sent: Monday, July 13, 2015 10:57 AM
To: Meyer, Christine
Subject: RE: monitoring well decommissioning-1629 Webster Street

Christine,

The well should be backfilled with Bentonite, except for the top 6" which should be backfilled with concrete. The well cap should be removed and disposed of.

Philip

From: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Sent: Monday, July 13, 2015 10:18 AM
To: Bob Claire; Philip Lee
Cc: Russi, Tonya; Maurel, Sean
Subject: monitoring well decommissioning-1629 Webster Street

Hi Bob and Philip,

We are preparing to decommission the monitoring wells associated with the site located at 1629 Webster Street in Alameda. I wanted to verify with you on the preference for the surface completion of the two locations that are in the City Right of Way in Webster Street (please see attached figure). Could you please let us know if we are allowed to leave vaults that are in good condition in place to reduce the amount of impacts to traffic or if we need to perform surface modifications to the area to match the surrounding materials?

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com
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Meyer, Christine

From: Yoo, James <jamesy@acpwa.org>
Sent: Monday, August 03, 2015 4:23 PM
To: Meyer, Christine
Cc: Miller, Steve; lfuruyama@groundzonees.com; Sam Brathwaite (sbrathwaite@groundzonees.com)
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi Christine,

Yes, I informed Lindsay your assigned inspector know and you should be fine with the City Engineers request to pressure grout the wells MW-5 and MW-6 and leave the vault collar and rings in place in the Right-Of-Way.

James

JAMES YOO
ENVIRONMENTAL COMPLIANCE SPECIALIST
ALAMEDA COUNTY PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 Elmhurst Street
Hayward, CA 94544
Ph: 510-670-6633
Fax: 510-782-1939
jamesy@acpwa.org
www.acgov.org/pwa/wells

From: Meyer, Christine [mailto:Christine.Meyer@arcadis-us.com]
Sent: Monday, August 03, 2015 4:08 PM
To: Yoo, James
Cc: Miller, Steve
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi James,

I wanted to verify with you that we can proceed with the surface completions in the City of Alameda right of way per their engineer's direction (removing the well vault lids, pressure grouting, backfilling the fault to the surface with concrete). Can you please send me an email in response at your earliest convenience?

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com

ARCADIS U.S., Inc |2999 Oak Road, Suite 300 | Walnut Creek, CA 94597
T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com

From: Meyer, Christine
Sent: Wednesday, July 29, 2015 3:41 PM
To: 'Yoo, James' <jamesy@acpwa.org>
Cc: Miller, Steve <stevem@acpwa.org>
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi James,

Thank you for returning my call. We will continue with the plan, per our discussion and your previous planning with Kathy Brandt, to pressure grout the monitoring wells and having TSP-1, an ozone injection well, over drilled to depth. The vaults will be removed from on site wells and the wells near utilities will be removed according to the inspector's discretion. The onsite locations will all be backfilled with concrete to surface to avoid a tripping hazard.

Please find attached the surface completion detail direction as directed by the City of Alameda for the wells MW-5 and MW-6 (located in Webster Street-City of Alameda right of way). Per our discussion, this email will be included in the well decommissioning report to confirm that the vault collars and rings will be left in place per City of Alameda's direction. Please let me know if you have any questions.

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com
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T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com

From: Yoo, James [mailto:jamesy@acpwa.org]
Sent: Wednesday, July 29, 2015 2:32 PM
To: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Cc: Miller, Steve <stevem@acpwa.org>
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi Christine,

I try to get this permit out in the next day or so. I hope to do today if possible. You should be fine for the time period that you want to conduct your work.
Sorry, there is NO variance for leaving the well vault/collars or ring in place. To complete the paperwork by the inspector and to state that the well was indeed destroyed by County standards the well vault as a whole must be removed. You do not have to drill out the wells that have a utility conflict and that judgment and call can also be made by the inspector.

Let me know if that answers your questions or feel free to call me.

James

JAMES YOO
ENVIRONMENTAL COMPLIANCE SPECIALIST
ALAMEDA COUNTY PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 Elmhurst Street
Hayward, CA 94544
Ph: 510-670-6633
Fax: 510-782-1939
jamesy@acpwa.org
www.acgov.org/pwa/wells

From: Meyer, Christine [mailto:Christine.Meyer@arcadis-us.com]
Sent: Wednesday, July 29, 2015 11:03 AM
To: Yoo, James
Cc: Miller, Steve
Subject: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi James,

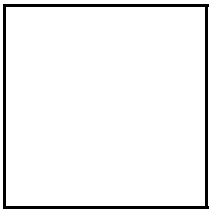
I understand that our permits are still in progress with ACPWA for the work in Alameda scheduled to start next week. Do you think we will have the permits reviewed before the end of the week?

I also wanted to check with you if we may have a variance to allow us to leave the well vault collars in place for the onsite wells. The site property is being redeveloped within the next two months and there are utility lines that run within three feet of the wells. Find attached the utility locate borehole clearance photos and utility site plans for the site. Please let me know if you have any questions.

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com
ARCADIS U.S., Inc |2999 Oak Road, Suite 300 | Walnut Creek, CA 94597
T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com



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ARCADIS

Appendix C

Alameda County Environmental Health Permits and City of Alameda Permits

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 07/31/2015 By jamesy

Permit Numbers: W2015-0682 to W2015-0694
Permits Valid from 08/03/2015 to 08/08/2015

Application Id: 1437432569884 **City of Project Site:** Alameda
Site Location: 1629 Webster St, Alameda, CA
Project Start Date: 08/03/2015 **Completion Date:** 08/08/2015
Assigned Inspector: Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama@groundzonees.com

Applicant: Arcadis - Kate Brandt
2000 Powell st, 7th Flr., Emeryville, CA 94608 **Phone:** 510-596-9675
Property Owner: Sam Koka
802 Pacific Ave, Alameda, CA 94501 **Phone:** 510-865-4414
Client: Chevron Envr. Mgmt Co.
6001 Bollinger Cyn. Rd, San Ramon, CA 94583 **Phone:** 925-790-6912

Total Due: $5029.00
Receipt Number: WR2015-0376 **Total Amount Paid:** $5029.00
Payer Name : Arcadis Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Destruction-Monitoring - 12 Wells
Driller: Gregg - Lic #: 485165 - Method: other **Work Total: $4764.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2015-0682	07/31/2015	11/01/2015	MW1	8.00 in.	2.00 in.	4.00 ft	20.50 ft	2S/4W11	No Records	No Records
W2015-0683	07/31/2015	11/01/2015	MW10	8.00 in.	2.00 in.	21.00 ft	30.00 ft	2S/4W11	W2009-0353	e0092265
W2015-0684	07/31/2015	11/01/2015	MW11	8.00 in.	2.00 in.	19.00 ft	28.00 ft	2S/4W11	W2009-0354	e0092265
W2015-0685	07/31/2015	11/01/2015	MW1AR	8.00 in.	2.00 in.	21.00 ft	30.50 ft	2S/4W11	W2009-0355	e0092255
W2015-0686	07/31/2015	11/01/2015	MW1BR	8.00 in.	2.00 in.	26.00 ft	235.00 ft	2S/4W11	W2009-0356	e0092260
W2015-0687	07/31/2015	11/01/2015	MW3	8.00 in.	2.00 in.	4.00 ft	20.50 ft	2S/4W11	No Records	No Records
W2015-0688	07/31/2015	11/01/2015	MW4	8.00 in.	2.00 in.	4.00 ft	20.50 ft	2S/4W11	No Records	No Records
W2015-0689	07/31/2015	11/01/2015	MW5	8.00 in.	2.00 in.	3.50 ft	21.50 ft	2S/4W11	No Records	No Records
W2015-0690	07/31/2015	11/01/2015	MW6	8.00 in.	2.00 in.	3.50 ft	21.50 ft	2S/4W11	No Records	No Records
W2015-0691	07/31/2015	11/01/2015	MW7	8.00 in.	2.00 in.	21.00 ft	30.00 ft	2S/4W11	W2009-0357	e0092258
W2015-0692	07/31/2015	11/01/2015	MW8	8.00 in.	2.00 in.	16.00 ft	25.00 ft	2S/4W11	W2009-0358	e0092260
W2015-0693	07/31/2015	11/01/2015	MW9	8.00 in.	2.00 in.	4.00 ft	20.50 ft	2S/4W11	W2009-0359	e0092262

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. Include permit number and site map.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 10 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 assigned inspector listed on the top of the permit 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. 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.

9. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

10. Remove the Christy box or similar structure. Destroy well MW-5 and MW-6 by overdrilling the upper 5ft. below ground surface (bgs) and then tremie grouting with neat cement. 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 by approved encroachment permit concrete material and asphalt material by Caltrans Spec or County/City Codes.

11. Remove the Christy box or similar structure. Destroy all other 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.

Alameda County Public Works Agency - Water Resources Well Permit

Remediation Well Destruction-Injection - 1 Wells
Driller: Gregg - Lic #: 485165 - Method: OP **Work Total: $265.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2015-0694	07/31/2015	11/01/2015	TSP1	8.00 in.	0.75 in.	2.00 ft	30.50 ft	3S/4W11	W2009-0630	e0092267

Specific Work Permit Conditions

1. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

2. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

3. 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.

4. Applicant shall contact assigned inspector listed on the top of the permit 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.

5. 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.

6. Remove the Christy box or similar structure. Overdrill or clean out to original depth. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

8. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

9. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a 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.

CITY OF ALAMEDA
2263 SANTA CLARA AVENUE, ROOM 190
ALAMEDA, CA 94501

(510) 747-6800
FAX (510) 865-4053

Encroachment Permit: EN15-0224

Applicant Information
SEAN MAUREL
2000 POWELL ST, 7TH FLOOR
EMERYVILLE CA 94608
951-634-8709

Contractor Information

Owner Information
YANG ESTHER M TR
P O BOX 20218
EL SOBRANTE CA 94820-0218

Project Information
Status: **Issued**
Type: **Encroachment Permit**
Category: **NA**
Sub-Type: **NA**
Parcel Number: **073-0417-012-01**
Job Address: **1700 WEBSTER ST**
Applied: **07/23/2015**
Finaled:
Issued: **07/23/2015**
Expired: **08/07/2015**
Valuation: **$0.00**
Work Description: **NO PARKING - SEAN MAUREL - (WELL DECOMMISIONING BY PRESSURE GROUTING) - AT 1700 WEBSTER & 1701 WEBSTER FROM WEDNESDAY AUGUST 5TH THRU FRIDAY AUGUST 7TH - FROM 7AM TO 4PM (4 SPACES TOTAL, 2 PER LOCATION)**

INSPECTIONS

Building:	**(510) 747-6830 (7:30 - 8:30 AM)**	**Electrical:**	**(510) 747-6830 (7:30 - 8:30 AM)**
Plumbing & Mechanical:	**(510) 747-6830 (7:30 - 8:30 AM)**	**Fire:**	**(510) 337-2120**
		Design Review:	**(510) 747-6850**

FEE DESCRIPTION	ACCOUNT CODE	UNITS	FEE AMOUNT	PAID
Engineering - Other Revenue	4210-39900 (1590)	168	$168.00	$0.00
		TOTALS:	$168.00	$0.00

RECEIPT #	PAYMENT METHOD	CHECK #	PAYOR:	RECEIPT DATE	RECEIPT AMOUNT
	Cash		SEAN A MAUREL	07/23/2015	$168.00

Cashier: NALI

Total Payments: $168.00
Balance Due: $0.00

8.5.15 @ 0730 — S. SMITH #440
DATE — POLICE — 510-337-8820

Version Date: 01/18/2012

Print Date: 7/23/2015

CITY OF ALAMEDA

2263 SANTA CLARA AVENUE, ROOM 190
ALAMEDA, CA 94501

(510) 747-6800
FAX (510) 865-4053

REVISED 7/20/15 DM

Encroachment Permit: EN15-0209

Applicant Information
SEAN MAUREL
2000 POWELL ST 7TH FLOOR
EMERYVILLE CA 94608
951-634-8709

Contractor Information

Owner Information
YANG ESTHER M TR
P O BOX 20218
EL SOBRANTE CA 94820-0218

Project Information
Status: **Issued**
Type: **Encroachment Permit**
Category: **NA**
Sub-Type: **NA**
Parcel Number: **073-0417-012-01**
Job Address: **1629 WEBSTER ST**
Work Description: **NO PARKING - ARCADIS/SEAN MAUREL - CONSTRUCTION (4 SPACES - 2 AT 1700 WEBSTER ST AND 2 1701 WEBSTER) ON 7/23/15**

Applied: **07/13/2015**
Finaled:

Issued: **07/13/2015**
Expired: **07/13/2016**

Valuation: **$56.00**

INSPECTIONS

Building:	**(510) 747-6830 (7:30 - 8:30 AM)**	**Electrical:**	**(510) 747-6830 (7:30 - 8:30 AM)**
Plumbing & Mechanical:	**(510) 747-6830 (7:30 - 8:30 AM)**	**Fire:**	**(510) 337-2120**
		Design Review:	**(510) 747-6850**

FEE DESCRIPTION	ACCOUNT CODE	UNITS	FEE AMOUNT	PAID
Engineering - Other Revenue	4210-39900 (1590)	56	$56.00	$56.00
		TOTALS:	$56.00	$56.00

RECEIPT #	PAYMENT METHOD	CHECK #	PAYOR:	RECEIPT DATE	RECEIPT AMOUNT
501053	Credit Card		SEAN A MAUREL	07/13/2015	$56.00

Cashier: LBARRAZA

Total Payments: $56.00

Balance Due: $0.00

Date & 7-23-15 Police # 423 510-337-8820

Version Date: 01/18/2012

Print Date: 7/20/2015

CITY OF ALAMEDA
2263 SANTA CLARA AVENUE, ROOM 190
ALAMEDA, CA 94501

(510) 747-6800
FAX (510) 865-4053

ENCROACHMENT PERMIT: EX15-0064

Applicant Information	Contractor Information	Owner Information
ARCADIS U S INC	ARCADIS U S INC	
P O BOX 66	P O BOX 66	
SYRACUSE CA 13214	SYRACUSE CA 13214	
925-296-7830	(315) 671-9132	

Project Information

Status: **Issued**
Type: **Right-of-Way Permit**
Category: **NA**
Sub-Type: **NA**
Parcel Number:
Job Address: **1629 WEBSTER ST**
Work Description: PRESSURE GROUTING TO DECOMMISSION (2) WELLS LOCATED ON WEBSTER ST (NORTH OF PACIFIC AVE.)

Applied: **07/13/2015**
Finaled:

Issued: **07/23/2015**
Expires: **08/13/2018**

Valuation: **$1,000.00**

ITEM #	FEE DESCRIPTION	ACCOUNT CODE	UNITS	FEE AMOUNT	PAID
250	Filing Fee	481003-37450 (1050)	1	$47.00	$47.00
2999	Technology Fee	481003-33063 (1051)	1	$12.05	$12.05
620	Records Management Fee	482001-37900 (6210)	1	$3.37	$3.37
834	Excavation: Planned Proj - Traffic Control Review (typical)	4210-37190 (6321)	1	$194.00	$194.00
965	Community Planning Fee	481005-33064 (8765)	1	$5.00	$5.00
			TOTALS:	$261.42	$261.42

RECEIPT #	PAYMENT METHOD	CHECK #	PAYOR:	RECEIPT DATE	RECEIPT AMOUNT
501037	Check	1358	KATHRINE BRANDT	07/13/2015	$261.42
Cashier: NALI					

Total Payments: $261.42

Balance Due: $0.00

INSPECTIONS

Call for an inspection when work is complete

(510) 747-7930

This is to certify that the above work has been completed to my satisfaction and approval.

8/5/15
Date

Inspector

FAX TRANSMISSION

CITY OF ALAMEDA

Alameda Point, Building 1
950 West Mall Square Room 110
Alameda, CA 94501-7552
Phone (510) 747-7930
Fax (510) 769-6030

To: Rob

Fax #: 925-274-1103

From: Greg Stom

Subject: Permit # E15-0064

Date: 8/7/15

Pages: 2 (including cover sheet)

COMMENTS: Sign off copy

JOB SITE COPY

City of Alameda

Interdepartmental Memorandum

Date: July 16, 2015

To: Permit Office

From: Philip Lee
Public Works Department

Re: Permit No. EX15-0064, Pressure Grouting to Decommission (2) Wells Located on Webster Street (North of Pacific Avenue)

Job Address: 1629 Webster Street

Applicant: Arcadis U.S., Inc.
2000 Powell Street, 7th Floor
Emeryville, CA 94608

APPROVAL NOTICE

Public Works staff has reviewed and approved the application for Permit No. EX15-0064. The following comments are the City's requirements for approval and shall be enforced, as necessary. The permittee and/or his contractor(s) shall abide by the following provisions:

Specific Comments

Civil

1. The well head shall be removed and disposed of.
2. If possible, the casing should be removed prior to sealing.
3. The well shall be sealed from the bottom to within 2 feet of the street surface by pressuring grouting. Grout may consist of Portland Cement, Concrete Bentonite, or Bentonite Chips.
4. The remainder of the well shall be filled with concrete to the final grade. Rapid setting concrete may be used and then dyed black to match the road.

Traffic

1. Work hours shall be limited to 9 am to 4 pm.
2. Applicant shall use City of Alameda No Parking signs.
3. Provide proper traffic control for pedestrians.
4. Prior to work, the Applicant shall notify these groups of the no parking signs:
    a. All businesses on Webster Street between Lincoln Avenue and Buena Vista

Avenue, and

b. The West Alameda Business Association.

"No Parking" Signs: The posting of "No-Parking" signs, as applicable, is required 48 hours in advance of the work. "No-Parking" signs are available at the Planning and Building Department, Room 190, City Hall. A fee will be charged for the signs. Only City of Alameda issued "No-Parking" signs are permitted for use within the public right-of-way.

General Comments (inspector will enforce the comments that are applicable):

1. Public Notifications: All property owners within the immediate vicinity of the work area must be notified in writing at least 5 days prior to the start of construction. The notification letter must include a brief description of the work, the anticipated project completion date and a contact name and phone number for citizens to report their concerns while work is in progress.

2. Additional Permits: The Contractor shall be responsible for obtaining all additional permits such as excavation, concrete, electrical, plumbing, or other necessary permits prior to beginning construction for any work not contained within the scope of this permit.

3. "No Parking" Signs: Posting of "No-Parking" signs including side streets, as applicable, is required 48 hours in advance. "No-Parking" signs are available at the Planning and Building Department, Room 190, City Hall. A fee will be charged for the signs. Only City of Alameda issued "No-Parking" signs are permitted for use within the public right-of-way.

4. Designated Truck Routes: All truck deliveries to the proposed work site must remain on established truck routes.

5. USA: All utilities within the work area shall be located and marked by USA prior to commencing excavation, trenching, micro-tunneling, or boring operations.

6. Work Hours: Unless stated otherwise in the specific comments, work hours are limited to the hours of 8:30 a.m. to 4:30 p.m., Monday through Friday. Be advised that uninterrupted traffic circulation within the public right-of-way is mandatory during the commute hour of 7:30 a.m. to 9:00 a.m. and 3:00 p.m. to 4:30 p.m. Work done on Saturdays, requiring inspection, is prohibited unless approved by the City Engineer and an inspector is available. Requests to work Saturday require two-week minimum prior notice. Inspection fees for Saturday work will be at time and a half (1-1/2) with a four-hour minimum. Said fee will be in accordance with the latest public works fee overtime schedule. No construction activity shall be permitted on Sundays or State and Federal holidays.

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7. Construction Staging: Storage of construction materials and equipment within the public right-of-way is not permitted.

8. URCWP (General/As Applicable): Construction materials (i.e. cement bags, paints, flammables, oils, fertilizers, pesticides, or any other materials that have potential for being discharged into the storm drain system by wind or as the result of a material spill) shall be kept in a contained and covered area on-site, as is practical, while construction is in progress. When feasible, tarps shall be used on the ground to collect fallen debris or splatters that could contribute to stormwater pollution. All temporary construction piles may remain on-site no more than 48 hours (continuous) and shall be securely covered overnight with a tarp or other device to contain debris. All construction debris shall be gathered and properly disposed of off-site on a regular basis.

9. Noise Generating Construction Activity: Maintain construction noise, dust control and cleanup to City acceptable levels. Construction equipment shall be properly muffled. Unnecessary idling of excavation and/or grading equipment is prohibited. Stationary noise-generating construction equipment such as compressors shall be located as far as practical from occupied residential housing units. Contractor shall be responsible for responding to any local complaints about construction noise.

10. Daily Work Site Cleanup: Trash and debris shall be cleaned up daily. Work area and haul routes shall be swept daily (with water sweepers) to remove construction-related materials. All construction debris shall be gathered on a regular basis and placed in a dumpster which is emptied or removed weekly. Any temporary on-site construction piles shall be securely covered with a tarp or other device to contain debris. Construction and demolition debris, and recycling, disposal shall be in accordance to the Alameda Municipal Code, Chapter XXI.

11. Storm Water BMP: Construction equipment, tools, etc. shall not be cleaned or rinsed into a street, gutter or storm drain. Concrete trucks and concrete finishing operations shall not discharge wash water into the street gutters or drains. There shall be no debris in the gutters. A contained and covered area on-site shall be used for storage of cement bags, paints, flammables, oils, fertilizers, pesticides, or any other materials that have potential for being discharged to the storm drain system by wind or in the event of a material spill. When feasible, tarps shall be used on the ground to collect fallen debris or splatters that could contribute to storm water pollution. Construction best management practices (BMP) for control of storm water runoff (e.g. straw waddles at catch basin inlets) shall be used where applicable. Contact the Public Works Environmental Services Division, at (510) 749-7930 for information on best management practices.

12. Clean Water Program (MRP, Provision C.3.a): The project applicant is encouraged to implement one or more site design measure, such as those listed below, to protect the quality of local stormwater runoff:

a. Direct roof runoff into cisterns or rain barrels and use rainwater for irrigation or other non-potable use.
b. Direct roof runoff onto vegetated areas.
c. Direct runoff from sidewalks, walkways, and/or patios onto vegetated areas.
d. Direct runoff from driveways and/or uncovered parking areas onto vegetated areas.
e. Construct sidewalks, walkways, and/or patios with permeable surfaces.
f. Construct driveways and/or uncovered parking areas with permeable surfaces

13. Pavement, Traffic Striping & Detectors: If the street pavement in the vicinity of the job site is damaged as a result of construction activity, then either pavement repair/reconstruction or an asphalt concrete overlay shall be required, as determined by the City Engineer or assigned representative. Additionally, traffic striping & marking, signal detectors, curb, gutter and other concrete improvements, damaged as a result of construction shall be replaced to the satisfaction of the City Engineer or assigned representative. Installation and maintenance of temporary striping and pavement markers is required while work is ongoing.

14. Traffic Control: If construction work encroaches within the right-of-way, the applicant must submit a traffic control plan that conforms to the following requirements:
    - The traffic control plan shall follow the standards and guidelines provided by the most recent version of the CA MUTCD and Caltrans Standard Plans.
    - If a lane is to remain open, the lane width shall be at least:
        - 12 feet on truck routes, bus routes, and paratransit routes
        - 10 feet otherwise.
    - Base the taper lengths, delineator spacing, and sign spacing on a traffic speed equal to the posted speed limit plus 5 MPH.
    - Post an R4-7 sign at the entrances of every coned centerline delineation.
    - Notify Joseph Robinson at AC Transit (510-891-4908) if the work zone is in a bus stop, near a bus stop, or on a bus route. The work shall not interfere with AC Transit bus service in the area. Joseph Robinson shall be notified at least 2 weeks in advance of the work.
    - Notify Mastick Senior Center (510-747-7513) if the work zone is in or near a City of Alameda Paratransit Shuttle stop.
    - Pedestrians shall be properly detoured at **appropriate crossing locations** whenever a sidewalk/crosswalk is closed. See the California MUTCD for guidance. Please keep in mind those pedestrians that may be disabled. Only one crossing at an intersection shall be closed at any time.
    - Applicant shall conform to all ADA standards.
    - If flaggers are used in the detour plan, they shall be shown in the drawings.
    - The applicant must obtain approval from the property owner of any driveways being blocked.
    - If the work is encroaching onto private properties, the applicant shall get approval from the appropriate property owners before proceeding with the work.
    - Applicant shall only park their vehicle on the street, and not on/over the curb or

on the sidewalk or paths.

15. "Bell-Hole" Excavation (As Applicable): Where there are multiple "Bell-Hole" excavations within close proximity of each other complete breakout and restoration of all existing A.C. between excavations is required. The locations where this condition applies shall be determined in the field as work progresses. All work shall be done to the satisfaction of the City Engineer or designated agent.

16. CCTV Inspection (As Applicable): Where boring or micro-tunneling work is proposed, all adjacent utility lines shall be closed circuit television (CCTV) inspected prior to the commencement of work and after the completion of work. Pipe cleaning shall be performed prior to CCTV inspection and all debris shall be removed from the pipeline. If the pipeline is damaged, it shall be replaced at the permittee's expense to the satisfaction of the City Engineer or his designated agent.

17. Open Trench Excavation: At no time shall there be more than 200 lineal feet of the trench opened along any single conduit alignment, including the section opened ahead of the pipe laying and the section behind the pipe laying which has not been completely backfilled and has a temporary cap. This also dictates the maximum length of right-of-way that may be posted with no parking signs at any one time.

18. Excavation Restoration: Excavation restoration in the roadway shall conform to City of Alameda Standard Plan 2930-22 (attached) and the following condition: At the direction of the City Engineer or assigned agent, pavement restoration may extend to a maximum 18" beyond the standard plan limits where existing adjacent pavement is raveled or alligatored. Pavement restoration shall include sawcut, removal of asphalt concrete, and replacement in kind in conjunction with the trench restoration/paving course. The limits of the area within the roadway to be repaved must be pre-approved by the City Inspector. All work shall be done to the satisfaction of the City Engineer or his assigned agent.

19. Hardscape Restoration: A concrete permit is required for the demolition and restoration of concrete curb, gutter and sidewalk within the public right-of-way. Concrete restoration of concrete curb, gutter, sidewalk and/or driveway within City right-of-way shall conform to City of Alameda Standard Plan 6297-24 (available upon request). Also, existing decorative concrete (e.g. tinted concrete, etc.) shall be replaced in kind and to the nearest expansion joint.

20. Site Restoration: Upon completion of the work all existing improvements within the project area (e.g. landscaping, irrigation, utilities, paths, area drainage, etc.) shall be completely restored to prior condition, or better, within five (5) working days of installation. Any damage within the public-right-of-way shall be replaced at the permittee's expense to the satisfaction of the City Engineer or his designated agent.

21. Construction Inspection: The permittee shall notify the Senior Inspector (510) 747-7930, 48-hours prior to beginning of any work within the City right-of-way. Work performed or covered without adequate notice will be subject to rejection.

This approval notice is from the Public Works Department only. Additional hold notices MIGHT be forthcoming from other plan check departments.

Should you require further clarification regarding these comments, contact Philip Lee at (510) 747-7942.

PL:pl

G:\pubworks\Permits\2015\Excavation\EX15-0064.1629 Webster.Grout Monitor Well\EX15-0064.(A).1629 Webster.arcadis.Grout Monitor Well.doc

ARCADIS

Appendix D

Well Destruction Logs

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (#351849)	1629 WEBSTER STREET	

Well ID:	MW-1	Well Installation Permit ID:	NO RECORDS
Drilling Co.	GREGG	Well Destrucition Permit ID:	W2015 - 0082
Drilling Crew:	CHRIS, DANIEL, JAMES	Begin Date/Time:	8/4/15 @ 1144
Well Diameter:	2 INCHES	End Date/Time:	8/4/15 @ 1215
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	8.37 FT	Ground Surface Elev.:	
Well Depth:	19.56 FT	Top of Casing Elev.:	
Screen Interval:	5-20.5 FT		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size: N/A	Borehole Diam: 8 INCHES
Tremie Pipe used	(Y)/N	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	4 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	3.2 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y/(N) Amount:	$CV=(\pi r^2 h)(7.48\ gal/cu\ ft)$	(2) / 0.163
PSI 25	Time: 15 MIN	or $CV = \pi[(D/2)/12\ in/ft]^2 h\ (7.48\ gal/cu\ ft)$	4 / 0.652
Surface Completion	WELL BOX REMOVED, CONCRETE (DYED BLACK)	Assume 35% porosity for gravel pack	6 / 1.468

Description of Boring Location:

VACANT LOT ADJACENT TO SK AUTO (SW CORNER)

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (# 351849)	1629 WEBSTER STREET	

Well ID:	MW-1AR	Well Installation Permit ID:	W2009-0355
Drilling Co.	GREGG	Well Destrucition Permit ID:	W2015-0685
Drilling Crew:	CHRIS, DANIEL, JAMES	Begin Date/Time:	8/4/15 @ 1124
Well Diameter:	2 INCHES	End Date/Time:	8/4/15 @ 1156
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	8.15 FT	Ground Surface Elev.:	
Well Depth:	29.45 FT	Top of Casing Elev.:	
Screen Interval:	23 - 30.5 FT		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size: N/A	Borehole Diam: 8 INCHES
Tremie Pipe used	(Y)/N	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	7 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	4.8 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y(N) Amount:	$CV=(\pi r^2 h)(7.48\ gal/cu\ ft)$	(2) / 0.163
PSI 25	Time: 5 MIN	or $CV = \pi[(D/2)/12\ in/ft]^2 h\ (7.48\ gal/cu\ ft)$	4 / 0.652
Surface Completion	WELL BOX REMOVED; CONCRETE (COLED BLACK)	Assume 35% porosity for gravel pack	6 / 1.468

Description of Boring Location:

VACANT LOT ADJACENT TO SPK AUTO (SW CORNER)

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (#351849)	1629 WEBSTER STREET	

Well ID:	MW-1BR	Well Installation Permit ID:	W2009-0356
Drilling Co.	GREGG	Well Destrucition Permit ID:	W2015-0686
Drilling Crew:	CHRIS, DANIEL, JAMES	Begin Date/Time:	8/4/15 @ 1107
Well Diameter:	2 INCHES	End Date/Time:	8/4/15 @ 1147
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	8.49 FT	Ground Surface Elev.:	
Well Depth:	34.20 FT	Top of Casing Elev.:	
Screen Interval:	30-35 FT		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size:	N/A Borehole Diam: 8 INCHES
Tremie Pipe used	(Y)/N	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	7 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	5-6 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y/(N) Amount:	$CV=(\pi r^2 h)(7.48\ gal/cu\ ft)$	(2) / 0.163
PSI 25	Time: 5 MIN	or $CV = \pi[(D/2)/12\ in/ft]^2 h\ (7.48\ gal/cu\ ft)$	4 / 0.652
Surface Completion	WELL BOX REMOVED; CONCRETE (DYED BLACK)	Assume 35% porosity for gravel pack	6 / 1.468

Description of Boring Location:

VACANT LOT ADJACENT TO SK AUTO (SW CORNER)

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (#351849)	1629 WEBSTER STREET	

Well ID:	MW-3	Well Installation Permit ID:	NO RECORD
Drilling Co.	GREGG	Well Destrucition Permit ID:	WZ015 - 0087
Drilling Crew:	CHADS, DANIEL, JAMES	Begin Date/Time:	8/4/15 @ 1215
Well Diameter:	2 INCHES	End Date/Time:	8/4/15 @ 1237
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	NOT GAUGED	Ground Surface Elev.:	
Well Depth:	20.2 FT	Top of Casing Elev.:	
Screen Interval:	5-20.5 FT		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size: N/A	Borehole Diam: 8 INCHES
Tremie Pipe used	(Y)/N	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	6 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	3.3 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y/(N) Amount:	$CV=(\pi r^2 h)(7.48$ gal/cu ft)	(2) 0.163
PSI 25	Time: 5 MIN	or $CV = \pi[(D/2)/12$ in/ft$]^2 h$ (7.48 gal/cu ft)	4 0.652
Surface Completion	WELL BOX REMOVED ; BACKFILLED W/ DIRT	Assume 35% porosity for gravel pack	6 1.468

Description of Boring Location:

PLANTER BOX ALONG NORTH EDGE OF PROPERTY

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (# 351849)	1629 WEBSTER STREET	

Well ID:	MW-4	Well Installation Permit ID:	NO RECORDS
Drilling Co.	GREGG	Well Destrucition Permit ID:	WZ015 — 0688
Drilling Crew:	CHRIS, DANIEL, JAMES	Begin Date/Time:	8/4/15 @ 0818
Well Diameter:	2 INCH	End Date/Time:	8/4/15 @ 0846
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	NOT GAUGED	Ground Surface Elev.:	
Well Depth:	16.16 FT	Top of Casing Elev.:	
Screen Interval:	5 - 20.5 FT		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size: N/A	Borehole Diam: 8 INCHES
Tremie Pipe used	(Y)/N	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	7 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	3.34 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y/(N) Amount:	$CV=(\pi r^2 h)(7.48\ gal/cu\ ft)$	(2) / 0.163
PSI 25	Time: 5 MIN	or $CV = \pi[(D/2)/12\ in/ft]^2 h\ (7.48\ gal/cu\ ft)$	4 / 0.652
Surface Completion	QUICKCRETE (DYED BLACK)	Assume 35% porosity for gravel pack	6 / 1.468

Description of Boring Location:

~~ORCHARD~~ DRIVEWAY OF SW AUTO

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (357849)	1629 WEBSTER STREET	

Well ID:	MW-5	Well Installation Permit ID:	NO RECORD
Drilling Co.	GREGG	Well Destrucition Permit ID:	W2015 - 0689
Drilling Crew:	CHRIS; DANIEL, JAMES	Begin Date/Time:	8/5/15 @ 0910
Well Diameter:	2"	End Date/Time:	8/5/15 @ 0945
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	NOT GAUGED	Ground Surface Elev.:	
Well Depth:	20.5 FT	Top of Casing Elev.:	
Screen Interval:	5-20 FT		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size:	N/A Borehole Diam: 8 "
Tremie Pipe used	(Y)/N	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	7 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	3.34 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y/(N) Amount:	CV=($\pi r^2 h$)(7.48 gal/cu ft)	(2) 0.163
PSI	25 Time: 5 MINUTES	or CV = $\pi[(D/2)/12 \text{ in/ft}]^2 h$ (7.48 gal/cu ft)	4 0.652
Surface Completion	WELL LID REMOVED; CONCRETE IN PLACE	Assume 35% porosity for gravel pack	6 1.468

Description of Boring Location:

NORTHBOUND LANE OF WEBSTER STREET
(1708 WEBSTER STREET)

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (351849)	1629 WEBSTER STREET	

Well ID:	MW-6	Well Installation Permit ID:	NO RECORD
Drilling Co.	GREGG	Well Destrucition Permit ID:	W2015-0690
Drilling Crew:	CHRIS, DANIEL, JAMES	Begin Date/Time:	8/5/15 @ 1034
Well Diameter:	2"	End Date/Time:	8/5/15 @ 1055
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	NOT GAUGED	Ground Surface Elev.:	
Well Depth:	20.5 FT	Top of Casing Elev.:	
Screen Interval:	5-20 FT		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size: N/A	Borehole Diam: 8"
Tremie Pipe used	(Y)/N	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	6 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	3.34 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y/(N) Amount:	$CV=(\pi r^2 h)(7.48\ gal/cu\ ft)$	(2) / 0.163
PSI	25 Time: 5 MINUTES	or $CV = \pi[(D/2)/12\ in/ft]^2 h\ (7.48\ gal/cu\ ft)$	4 / 0.652
Surface Completion	WELL LID REMOVED; CONCRETE IN PLACE	Assume 35% porosity for gravel pack	6 / 1.468

Description of Boring Location:
SOUTHBOUND LANE OF WEBSTER
(1700 WEBSTER STREET)

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (#251849)	1629 WEBSTER STREET	

Well ID:	MW-7	Well Installation Permit ID:	W2009 - 0357
Drilling Co.	GREGG	Well Destrucition Permit ID:	W2015 - 0691
Drilling Crew:	CHRIS, DANIEL, JAMES	Begin Date/Time:	6/4/15 @ 0915
Well Diameter:	2 INCH	End Date/Time:	6/4/15 @ 1024
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	6.70 FT.	Ground Surface Elev.:	/
Well Depth:	29.29 FT.	Top of Casing Elev.:	
Screen Interval:	25-30 FT.		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size:	N/A Borehole Diam: 8 INCHES
Tremie Pipe used	(Y)/N	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	8.5 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	4.8 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y/(N) Amount:	$CV=(\pi r^2 h)(7.48\ gal/cu\ ft)$	(2) / 0.163
PSI	15 Time: 5 MIN 15 MIN	or $CV = \pi[(D/2)/12\ in/ft]^2 h\ (7.48\ gal/cu\ ft)$	4 / 0.652
Surface Completion	CONCRETE (DYED BLACK) / WELL BOX REMOVED	Assume 35% porosity for gravel pack	6 / 1.468

Description of Boring Location:

VACANT LOT ADJACENT TO SK AUTO (NE CORNER)

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (#351849)	1629 WEBSTER STREET	

Well ID:	MW-8	Well Installation Permit ID:	W2009 - 0358
Drilling Co.	GREGG	Well Destrucition Permit ID:	W2015 - 0692
Drilling Crew:	CHRIS, DANIEL, JAMES	Begin Date/Time:	8/4/15 @ 0907
Well Diameter:	2 INCH	End Date/Time:	8/4/15 @ 0959
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	7.65 FT.	Ground Surface Elev.:	
Well Depth:	29.33 FT.	Top of Casing Elev.:	
Screen Interval:	25-30 FT.		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size: N/A	Borehole Diam: 8 INCHES
Tremie Pipe used	(Y)/N	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	8 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	4.8 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y/(N) Amount:	$CV=(\pi r^2 h)(7.48\ gal/cu\ ft)$	(2) / 0.163
PSI 25	Time: 5 MIN	or $CV = \pi[(D/2)/12\ in/ft]^2 h\ (7.48\ gal/cu\ ft)$	4 / 0.652
Surface Completion	YES, CONCRETE (DYED BLACK) / WELLBOX REMOVED	Assume 35% porosity for gravel pack	6 / 1.468

Description of Boring Location:

VACANT LOT ADJACENT TO 5K AUTO CARE (CORNER)

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (#351849)	1629 WEBSTER STREET	

Well ID:	MW-9	Well Installation Permit ID:	WZC09 - 0359
Drilling Co.	GREGG	Well Destrucition Permit ID:	WZC15 - 0693
Drilling Crew:	CHRIS, DANIEL, JAMES	Begin Date/Time:	8/4/15 @ 1028
Well Diameter:	2 INCHES	End Date/Time:	8/4/15 @ 1114
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	8.11 FT	Ground Surface Elev.:	/
Well Depth:	24.15 FT	Top of Casing Elev.:	/
Screen Interval:	20 - 25 FT		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size: N/A	Borehole Diam: 8 INCHES
Tremie Pipe used	(Y)/N	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	6 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	4 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y(N) Amount:	$CV=(\pi r^2 h)(7.48 \text{ gal/cu ft})$	(2) / 0.163
PSI 25	Time: 5 MIN	or $CV = \pi[(D/2)/12 \text{ in/ft}]^2 h$ (7.48 gal/cu ft)	4 / 0.652
Surface Completion	WELL BOX REMOVED; CONCRETE COVER BLACK)	Assume 35% porosity for gravel pack	6 / 1.468

Description of Boring Location:

VACANT LOT ADJACENT TO SR AUTO (CENTER)

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (#351849)	1629 WEBSTER ST, ALAMEDA	

Well ID: MW-10		Well Installation Permit ID: W2009 - 0353	
Drilling Co. GREGG		Well Destrucition Permit ID: W2015 - 0683	
Drilling Crew: CHRIS, DANIEL, JAMES		Begin Date/Time: 8/4/15 @ 1015	
Well Diameter: 2 INCH		End Date/Time: 8/4/15 @ 1054	
Type of Well: MONITORING		Northing/Easting or Lat/Long:	
DTW: 8.21 FT		Ground Surface Elev.:	
Well Depth: 28.76 FT		Top of Casing Elev.:	
Screen Interval: 25-30 FT			
Destruction Method: PRESSURE GROUTING			
Total Depth Overdrilled (ft bgs): N/A		Drill Bit Size: N/A	Borehole Diam: 8 INCHES
Tremie Pipe used (Y)/N		Depth of Tremie TOTAL DEPTH	
Type of Grout NEAT CEMENT			
Amount of Grout used 8 GALLONS		Estimated Amount of Grout needed to Fill Void Space: 4.7 GALLONS	
Amount of Water used		Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used Y(N)	Amount:	$CV=(\pi r^2 h)(7.48 \text{ gal/cu ft})$	(2) / 0.163
PSI 25	Time: 5 MIN	or $CV = \pi[(D/2)/12 \text{ in/ft}]^2 h$ (7.48 gal/cu ft)	4 / 0.652
Surface Completion WELL BOX REMOVED; CONCRETE (DYED BLACK)		Assume 35% porosity for gravel pack	6 / 1.468

Description of Boring Location:

VACANT LOT ADJACENT TO SW INTO CENTER)

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
CHEVRON ALAMEDA (# 351849)	1629 WEBSTER STREET	

Well ID:	MW-11	Well Installation Permit ID:	W2009 – 0354
Drilling Co.	GREGG	Well Destrucition Permit ID:	W2015 – 0684
Drilling Crew:	CHRIS, DANIEL, JAMES	Begin Date/Time:	8/4/15 @ 1041
Well Diameter:	2 INCHES	End Date/Time:	8/4/15 @ 1136
Type of Well:	MONITORING	Northing/Easting or Lat/Long:	
DTW:	8.05 FT	Ground Surface Elev.:	
Well Depth:	27.25 FT	Top of Casing Elev.:	
Screen Interval:	23-28 FT		
Destruction Method:	PRESSURE GROUTING		
Total Depth Overdrilled (ft bgs):	N/A	Drill Bit Size: N/A	Borehole Diam: 8 INCHES
Tremie Pipe used	~~Y~~/N, YES	Depth of Tremie	TOTAL DEPTH
Type of Grout	NEAT CEMENT		
Amount of Grout used	7.5 GALLONS	Estimated Amount of Grout needed to Fill Void Space:	4.4 GALLONS
Amount of Water used	—	Grout Calculations:	Well Diameter: / Casing Volume/ft:
Bentonite used	Y/N Amount:	$CV=(\pi r^2 h)(7.48\ gal/cu\ ft)$	(2") 0.163
PSI 25	Time: 5 MIN	or $CV = \pi[(D/2)/12\ in/ft]^2 h\ (7.48\ gal/cu\ ft)$	4 0.652
Surface Completion	WELL BOX REMOVED; CONCRETE (COLOR BLACK)	Assume 35% porosity for gravel pack	6 1.468

Description of Boring Location:

VACANT LOT ADJACENT TO SK AUTO CLENTER)

ARCADIS
Infrastructure, environment, buildings

Well Destruction Log

Project Name:	Site Address:	Project No.
ALAMEDA (351849)	1629 WEBSTER STREET, ALAMEDA, CA	

Well ID: TSP-1	Well Installation Permit ID: W2009-0630
Drilling Co. GREGG	Well Destrucition Permit ID: W2015-0644
Drilling Crew: VENLE, DANDEC, JAMES	Begin Date/Time: 8/3/15 @ ~~1525~~ 1000
Well Diameter: 0.75 INCH	End Date/Time: 8/3/15 @ 1700
Type of Well: AIR SPARGE	Northing/Easting or Lat/Long:
DTW: 8.15 (MW4AR)	Ground Surface Elev.:
Well Depth: 30.5 FEET	Top of Casing Elev.:
Screen Interval: 25-30 FEET (APPROXIMATE)	
Destruction Method: OVERDRILLING	
Total Depth Overdrilled (ft bgs): 30.5 FEET	Drill Bit Size: 10 INCH Borehole Diam: 8 INCH
Tremie Pipe used (Y)/N	Depth of Tremie 30 FEET
Type of Grout ~~BENTONITE~~ SM NEAT CEMENT	
Amount of Grout used 160 GALLONS	Estimated Amount of Grout needed to Fill Void Space: ~124.5 gal
Amount of Water used —	Grout Calculations:
Bentonite used Y/N Amount:	CV=($\pi r^2 h$)(7.48 gal/cu ft)
PSI — Time: —	or CV = $\pi[(D/2)/12\ in/ft]^2 h$ (7.48 gal/cu ft)
Surface Completion WELL BOX REMOVED / CONCRETE (DYED BLACK)	Assume 35% porosity for gravel pack

Well Diameter:	Casing Volume/ft:
2	0.163
4	0.652
6	1.468

Description of Boring Location:
VACANT LOT ADJACENT TO SK AUTO (1629 WEBSTER STREET)

$\pi\left(\frac{5}{12}\right)^2$
$\pi(.417)^2$

10 4.08

ARCADIS

Appendix E

Well Completion Reports

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: B1/MW1 Plate: APPENDIX
Site: Former Tosco 76 Service Station 0843 Date: 3/2/99
Drill Contractor: Woodward Drilling
Sample Method: Split Spoon Geologist: MARK S. DOCKUM
Drill Rig: B57 Bore Hole Diameter: 8" Signature:
Location: South End of Site Approximately 50 Feet West of Southern Driveway Registration: R.G. 4412
Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" asphalt	
					SP	Sand, trace of silt, yellowish brown, moist	
5	5	0					
						Sands, trace of silt and some clay, brown, moist, some plasticity	
10	38	0			SC		
						Sand, trace of silt, light yellowish brown, wet	
15	35	0			SP		
						sand, trace of silt, olive, wet	
20	40	0					
						Total depth at 20.5 feet. Groundwater encountered at 12 feet. Static groundwater encountered at 5.8 feet.	

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

FN: 2248B001

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
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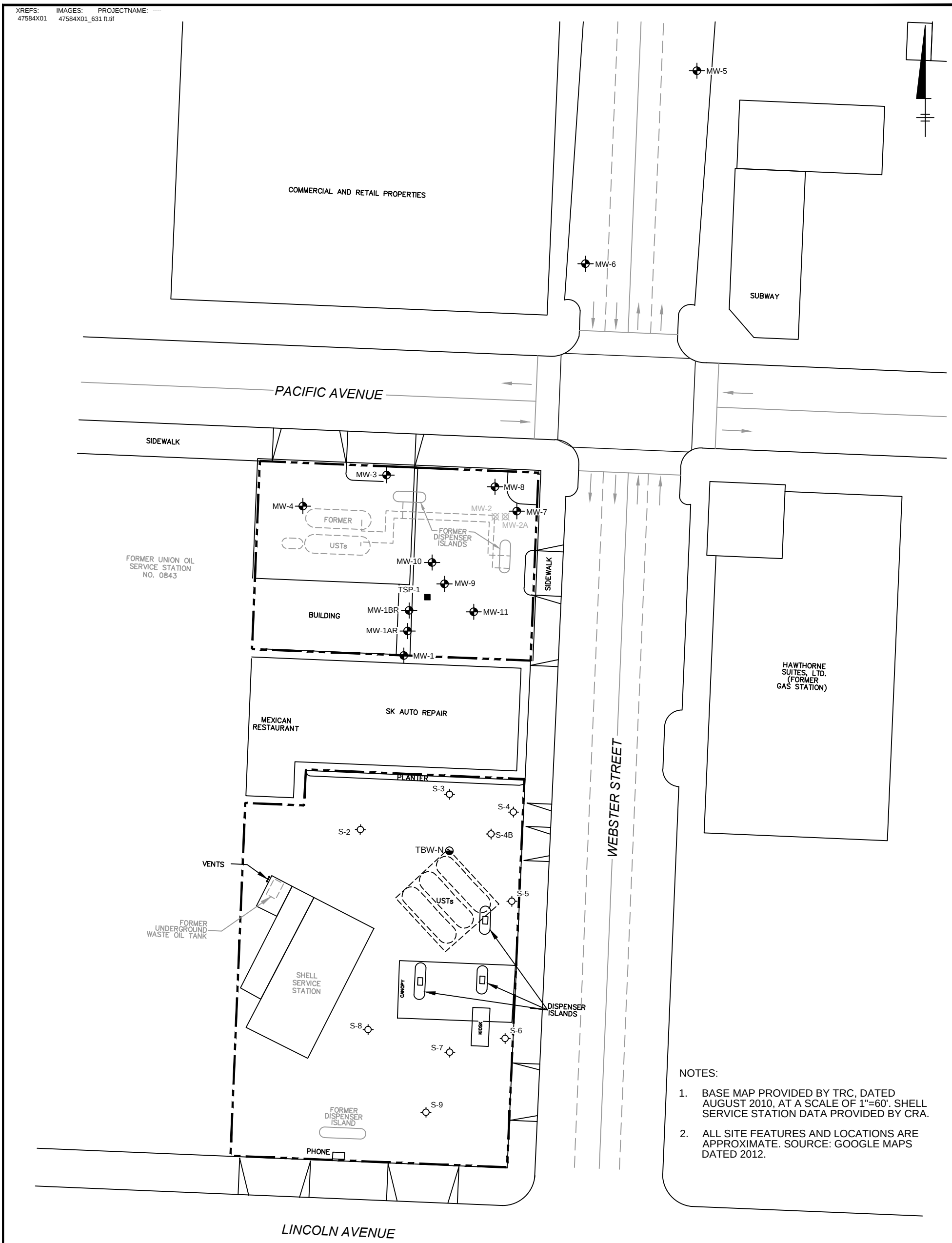


NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER UNION OIL SERVICE STATION NO. 0843 MONITORING WELL (SHALLOW AND DEEP)
- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

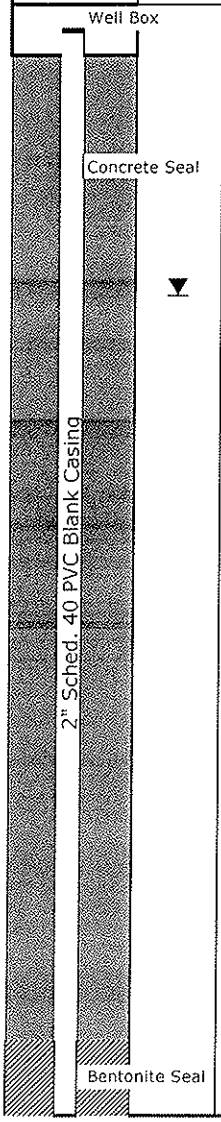
CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Delta Consultants

Project No: C102349210	Client: **ConocoPhillips**	Well No: **MW-1AR**
Logged By: Alan Buehler	Location: **1629 Webster Street**	Date Drilled: 5/13/09
Driller: **RSI Drilling**	**Alameda, California**	Page **1** of **2**
Drilling Method: Hollow Stem Auger	Hole Diameter: 8"	▽ = First Water
Sampling Method: Split Spoon	Hole Depth: 35'	▼ = Static Groundwater
Casing Type: Sched. 40 PVC	Well Diameter: 2"	
Slot Size: 0.02	Well Depth: 30.5'	
Gravel Pack: Filter Sand	First Water Depth: N/A	
Elevation	Northing	Easting



Depth (feet)	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
1–4				Air-Knife				Silty sand; trace clay with gravel.
5	moist	0.0					SM	Silty sand; light brown.
7							SM	Same as above.
9							SM	Same as above.
10	moist	0.1					SM	Silty sand with gravel; dark brown.
12							SM	Silty sand; light brown
15	wet	1.3					SM	Same as above.
20	sat.	2.9		11:23 @ 20'			SM	Encountered heaving sands to total depth of boring.

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-1AR**
Logged By:	Alan Buehler	Location: **1629 Webster Street** Alameda, California	Date Drilled: 5/13/09
Driller: **RSI Drilling**			Page **2** of **2**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	30'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	30.5'
Gravel Pack:	Filter Sand	First Water Depth:	N/A

▽ = First Water

▼ = Static Groundwater

Elevation	Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Filter Sand			N/A		23–30			SM	Encountered heaving sands to total depth of boring.
					31				**Total Depth of Boring = 30.5 Feet Below Ground Surface (bgs)**
					32–44				

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
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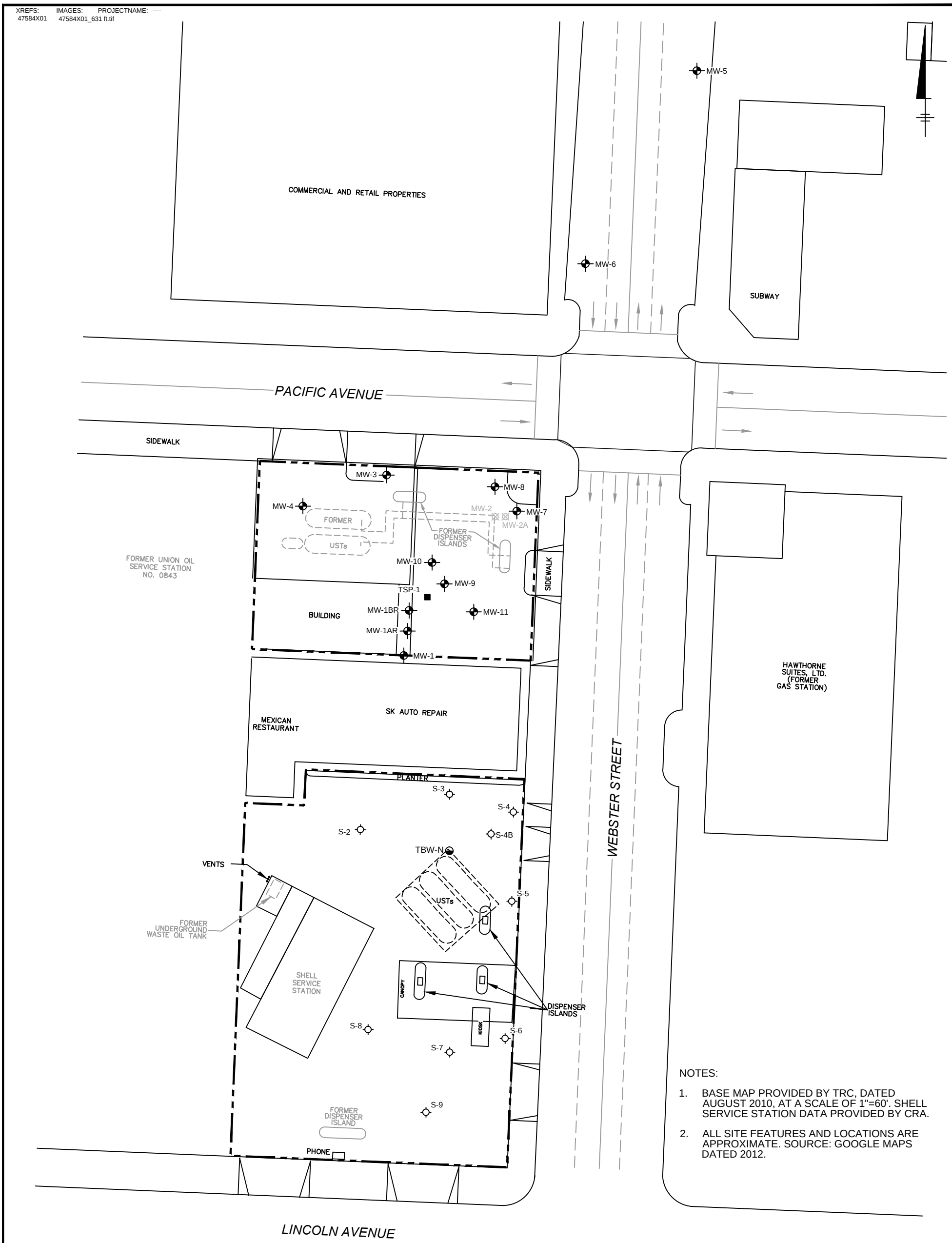

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER UNION OIL SERVICE STATION NO. 0843 MONITORING WELL (SHALLOW AND DEEP)
- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-1BR**
Logged By:	Alan Buehler	Location: **1629 Webster Street**	Date Drilled: 5/15/09
Driller: **RSI Drilling**		**Alameda, California**	Page **1** of **2**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	35'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	34.5'
Gravel Pack:	Filter Sand	First Water Depth:	N/A
Elevation		Northing	Easting

▽ = First Water

▼ = Static Groundwater

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Well Box; Concrete Seal; 2" Sched. 40 PVC Blank Casing	▼				Air-Knife	1–5				Silty sand; trace clay with gravel.
		moist				5			SM	Silty sand; light brown.
		damp				7			SM	Same as above.
		damp				9			SM	Same as above.
		moist	0.2			10			SM	Silty sand with gravel; dark brown.
						12			SM	Silty sand; light brown
		moist	0.2			15			SM	Same as above.
		moist	0.6		13:41 @ 20'	20			SM	Encountered heaving sands to total depth of boring.

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-1BR**
Logged By:	Alan Buehler	Location: **1629 Webster Street** Alameda, California	Date Drilled: 5/15/09
Driller:	**RSI Drilling**		Page **2** of **2**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	35'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	34.5'
Gravel Pack:	Filter Sand	First Water Depth:	N/A
Elevation		Northing	Easting

▽ = First Water

▼ = Static Groundwater

Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						23				
						24				
						25				Continuation of heaving sands to total depth of boring.
						26				
	Bentonite Seal					27				
						28				
	Filter Sand					29				
						30				
						31				
						32				
						33				
						34				
						35				**Total Depth of Boring = 35 Feet Below Ground Surface (bgs)**
						36				
						37				
						38				
						39				
						40				
						41				
						42				
						43				
						44				

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
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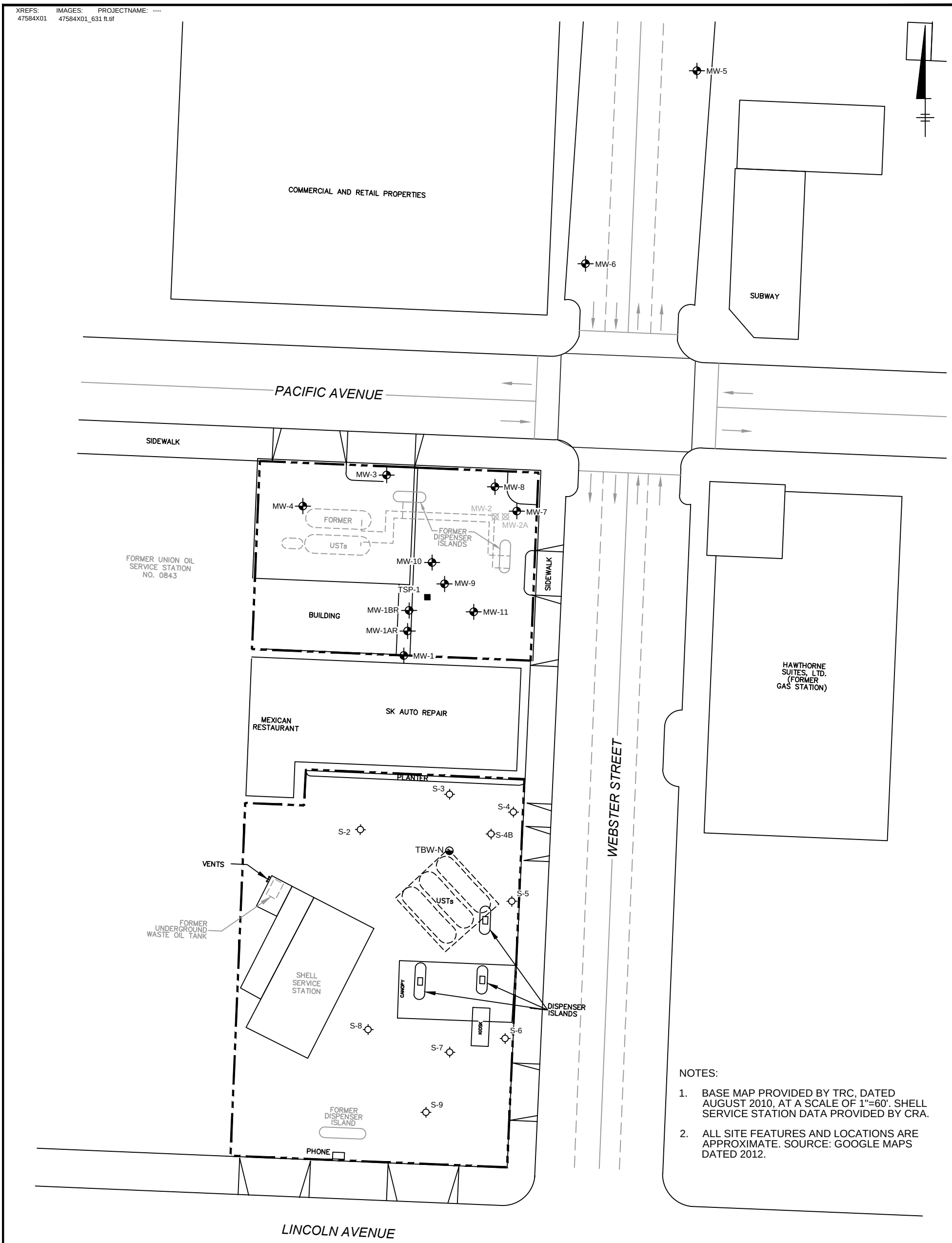

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER UNION OIL SERVICE STATION NO. 0843 MONITORING WELL (SHALLOW AND DEEP)
- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Project No.: 2248 Boring: B3/MW3 Plate: APPENDIX
Site: Former Tosco 76 Service Station 0843 Date: 3/2/99
Drill Contractor: Woodward Drilling
Sample Method: Split Spoon Geologist: MARK S. DOCKUM
Drill Rig: B57 Bore Hole Diameter: 8" Signature:
Location: North Center in the Planter Approximately 1 Foot South of the Sidewalk Registration: R.G. 4412
Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" planter soil	
						Silt, trace of sand and clay, fine-grained, dark yellowish brown, very moist, some plasticity	
5	5	0			ML		
10	35	0					
15	20	1				silt, trace of sand, fine-grained, dark yellowish brown, wet, no plasticity	
20	37	7				very moist	
						Total depth at 20.5 feet. Groundwater encountered at 12 feet. Static groundwater encountred at 4.9 feet.	

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

FN: 2248B0C3

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
C:\Users\jharris\Desktop\ENVCAD\B0047584\2014\00001\WORK PLAN\DWG\47584B01.dwg LAYOUT: 2 SAVED: 2/19/2014 12:07 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 2/19/2014 12:54 PM BY: HARRIS, JESSICA

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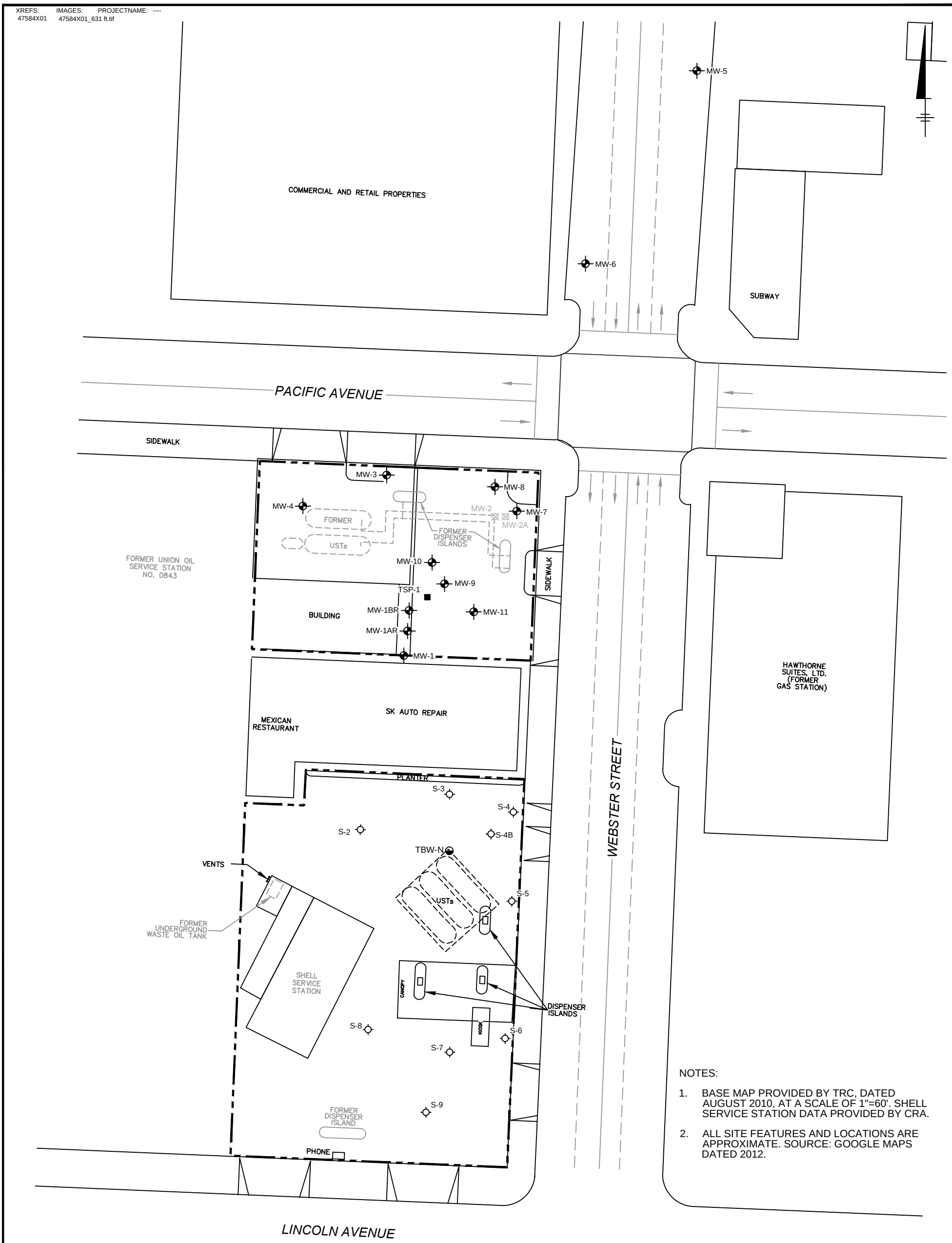

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER UNION OIL SERVICE STATION NO. 0843 MONITORING WELL (SHALLOW AND DEEP)
- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: B4/MW4 Plate: APPENDIX
Site: Former Tosco 76 Service Station 0843 Date: 3/2/99
Drill Contractor: Woodward Drilling
Sample Method: Split Spoon Geologist: MARK S. DOCKUM
Drill Rig: B57 Bore Hole Diameter: 8" Signature:
Location: Northeast Corner of Site Approximately 13 Feet South of Driveway Registration: R.G. 4412
Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						3" asphalt at top	
5	10	▽ 0			ML	silt, trace of sands, fine-grained, gravel and clay 0.5", dark yellowish brown, moist, some plasticity	
10	50	5				olive, very moist	
15	33	0 ▼				light olive brown, wet, no plasticity	
20	35	0				Total depth at 20.5 feet. Groundwater encountered at 15 feet. Static groundwater encountered at 4.7 feet.	

Casing Diameter: 2" Slot Size: 0.020 , Sand Size: #3 , Grout: Portland 1 II

FN: 2248B004

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
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XREFS: IMAGES: PROJECTNAME: ----
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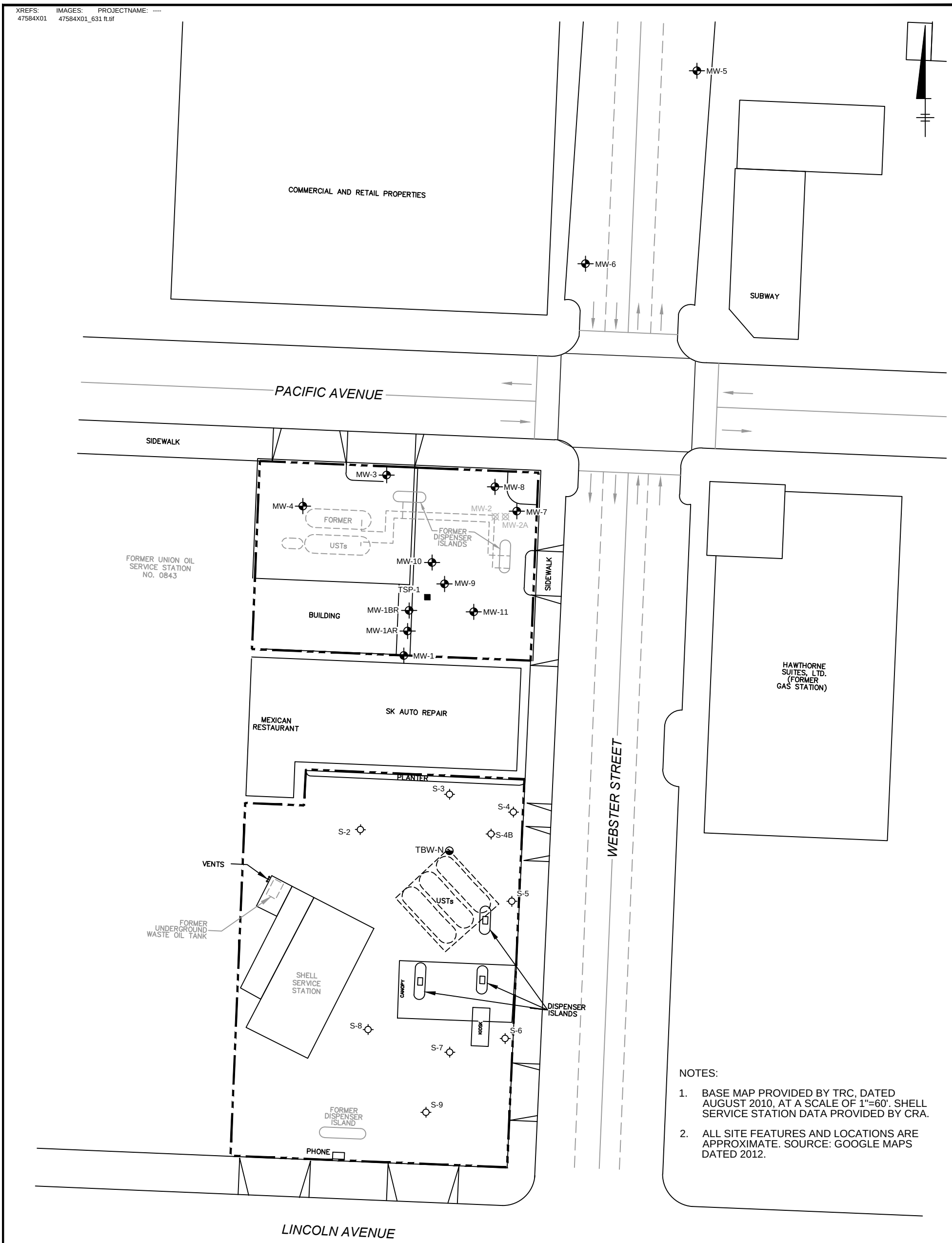

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER UNION OIL SERVICE STATION NO. 0843 MONITORING WELL (SHALLOW AND DEEP)
- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: MW5 Plate: APPENDIX

Site: Former Tosco 76 Service Station 0843 Date: 12/8/99

Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: MARK S. BOCKUM

Drill Rig: B57 Bore Hole Diameter: 8" Signature:

Location: 6.3 Feet from Curb 215 North and 95 Feet East of Northeast Site Boundary Registration: R.G. 4412

Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						1' asphalt Fill, sand	
5	9	0			CL	*Sand with some clay, olive gray, moist, slight plasticity, (25% clay, 75% sand), very fine-grained	
10	26	0			SM	Sand with some silt, yellowish orange, (25% silt, 75% sand), very fine-grained, wet, red staining	
15	36	0				same as above	
20	50	0				same as above	

Total depth at 21.5 feet.
First encountered groundwater at 10 feet.
Static groundwater at 6.9 feet.

*Soil description modified following field work.
Original field log available upon request from ERI.

Casing Diameter: 2" Slot Size: .010 , Sand Size: 2/12 , Grout: Portland I/II

FN: 2248B006

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
C:\Users\jharris\Desktop\ENVCAD\B0047584\2014\00001\WORK PLAN\DWG\47584B01.dwg LAYOUT: 2 SAVED: 2/19/2014 12:07 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 2/19/2014 12:54 PM BY: HARRIS, JESSICA

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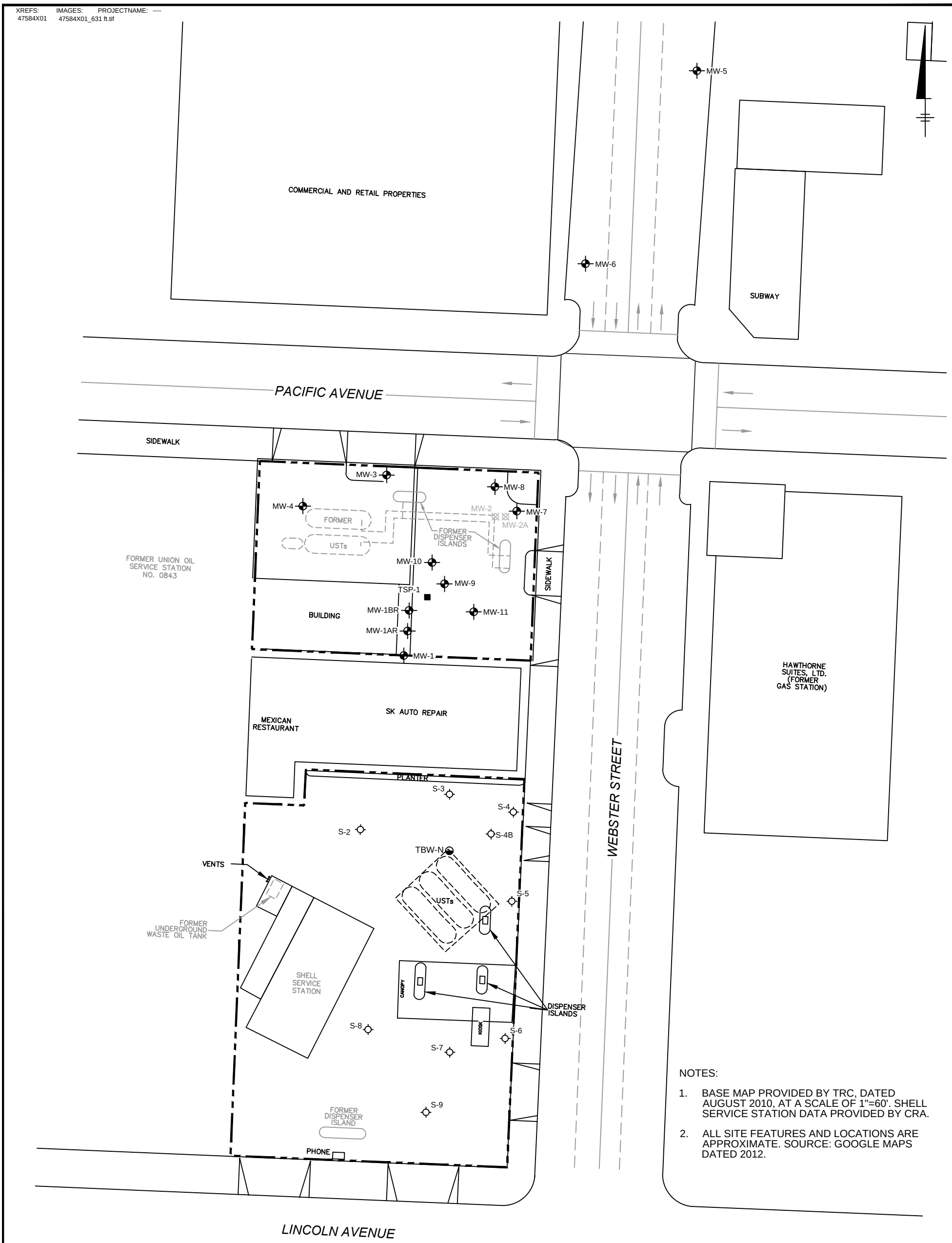

NOTES:

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2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER UNION OIL SERVICE STATION NO. 0843 MONITORING WELL (SHALLOW AND DEEP)
- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

Meyer, Christine

From: Philip Lee <plee@alamedaca.gov>
Sent: Tuesday, July 28, 2015 5:29 PM
To: Meyer, Christine
Subject: RE: monitoring well decommissioning-1629 Webster Street

Christine,

Leave the well vault collars in place and filling the void with concrete to finished grade. No need to dye the concrete black since the concrete collar around the well vault collar is not dyed.

Thanks,
Philip

From: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Sent: Tuesday, July 28, 2015 3:43 PM
To: Philip Lee
Subject: RE: monitoring well decommissioning-1629 Webster Street

Hi Philip,

We completed the utility locate in preparation for the work and noticed that there are a lot of utilities, most notably a water line and a gas line, running really close to the well vaults. Please find the photos of the locations attached. The proximity of the lines is a source of concern as we do not want to risk hitting a utility, especially a gas line. Does your engineer want to consider an authorization for a variance to allow us to either leave the well vault collars in place (remove the vault lids and fill with concrete) or to seal the vault lids in using Loctite? Please let me know if you have any questions.

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com
ARCADIS U.S., Inc |2999 Oak Road, Suite 300 | Walnut Creek, CA 94597
T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com

From: Philip Lee [mailto:plee@alamedaca.gov]
Sent: Thursday, July 16, 2015 2:58 PM
To: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Cc: Brandt, Katherine <Katherine.Brandt@arcadis-us.com>; Russi, Tonya <Tonya.Russi@arcadis-us.com>; Moniz, Robert <Robert.Moniz@arcadis-us.com>; Maurel, Sean <Sean.Maurel@arcadis-us.com>
Subject: RE: monitoring well decommissioning-1629 Webster Street

Hi Christine,

Your questions were forwarded to the engineer that happened to be reviewing Arcadis' permit EX15-0064 that was submitted on 7/13/15. Below are his comments to the permit. We will be sending all of our comments (including traffic) to the Permits Office on Monday. Please note our offices are closed on Fridays.

1. The well head shall be removed and disposed of.
2. If possible, the casing should be removed prior to sealing.
3. The well shall be sealed from the bottom to within 2 feet of the street surface by pressuring grouting. Grout may consist of Portland Cement, Concrete Bentonite, or Bentonite Chips.
4. The remainder of the well shall be filled with concrete to the final grade. Rapid setting concrete such as Quickcrete may be used and then dyed black to match the road.

Thanks,
Philip

From: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Sent: Wednesday, July 15, 2015 3:33 PM
To: Philip Lee
Cc: Brandt, Katherine; Russi, Tonya; Moniz, Robert; Maurel, Sean
Subject: RE: monitoring well decommissioning-1629 Webster Street

Hi Philip,

I wanted to confirm with you about the specifications for the top 6 inches of concrete. Can we keep it within the ~8 inch diameter original cut that is currently occupied by the vault and its associated concrete? Is standard Quickcrete acceptable or do we have to get a specific mix? Do you want it dyed black to match the road?

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com
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T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com

From: Meyer, Christine
Sent: Monday, July 13, 2015 11:10 AM
To: 'Philip Lee'
Subject: RE: monitoring well decommissioning-1629 Webster Street

HI Philip,

Is there a specific concrete grade or mix that we need to use since the area is in the road and surrounded by asphalt? Can we just remove the vault area itself and fill from there or does it have to be stepped out a certain distance? Do you want us to saw cut the asphalt?

Thanks,

Christine

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T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com

From: Philip Lee [mailto:plee@alamedaca.gov]
Sent: Monday, July 13, 2015 10:57 AM
To: Meyer, Christine
Subject: RE: monitoring well decommissioning-1629 Webster Street

Christine,

The well should be backfilled with Bentonite, except for the top 6" which should be backfilled with concrete. The well cap should be removed and disposed of.

Philip

From: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Sent: Monday, July 13, 2015 10:18 AM
To: Bob Claire; Philip Lee
Cc: Russi, Tonya; Maurel, Sean
Subject: monitoring well decommissioning-1629 Webster Street

Hi Bob and Philip,

We are preparing to decommission the monitoring wells associated with the site located at 1629 Webster Street in Alameda. I wanted to verify with you on the preference for the surface completion of the two locations that are in the City Right of Way in Webster Street (please see attached figure). Could you please let us know if we are allowed to leave vaults that are in good condition in place to reduce the amount of impacts to traffic or if we need to perform surface modifications to the area to match the surrounding materials?

Thanks,

Christine

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Meyer, Christine

From: Yoo, James <jamesy@acpwa.org>
Sent: Monday, August 03, 2015 4:23 PM
To: Meyer, Christine
Cc: Miller, Steve; lfuruyama@groundzonees.com; Sam Brathwaite (sbrathwaite@groundzonees.com)
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi Christine,

Yes, I informed Lindsay your assigned inspector know and you should be fine with the City Engineers request to pressure grout the wells MW-5 and MW-6 and leave the vault collar and rings in place in the Right-Of-Way.

James

JAMES YOO
ENVIRONMENTAL COMPLIANCE SPECIALIST
ALAMEDA COUNTY PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 Elmhurst Street
Hayward, CA 94544
Ph: 510-670-6633
Fax: 510-782-1939
jamesy@acpwa.org
www.acgov.org/pwa/wells

From: Meyer, Christine [mailto:Christine.Meyer@arcadis-us.com]
Sent: Monday, August 03, 2015 4:08 PM
To: Yoo, James
Cc: Miller, Steve
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi James,

I wanted to verify with you that we can proceed with the surface completions in the City of Alameda right of way per their engineer's direction (removing the well vault lids, pressure grouting, backfilling the fault to the surface with concrete). Can you please send me an email in response at your earliest convenience?

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com

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T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com

From: Meyer, Christine
Sent: Wednesday, July 29, 2015 3:41 PM
To: 'Yoo, James' <jamesy@acpwa.org>
Cc: Miller, Steve <stevem@acpwa.org>
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi James,

Thank you for returning my call. We will continue with the plan, per our discussion and your previous planning with Kathy Brandt, to pressure grout the monitoring wells and having TSP-1, an ozone injection well, over drilled to depth. The vaults will be removed from on site wells and the wells near utilities will be removed according to the inspector's discretion. The onsite locations will all be backfilled with concrete to surface to avoid a tripping hazard.

Please find attached the surface completion detail direction as directed by the City of Alameda for the wells MW-5 and MW-6 (located in Webster Street-City of Alameda right of way). Per our discussion, this email will be included in the well decommissioning report to confirm that the vault collars and rings will be left in place per City of Alameda's direction. Please let me know if you have any questions.

Thanks,

Christine

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www.arcadis-us.com

From: Yoo, James [mailto:jamesy@acpwa.org]
Sent: Wednesday, July 29, 2015 2:32 PM
To: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Cc: Miller, Steve <stevem@acpwa.org>
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi Christine,

I try to get this permit out in the next day or so. I hope to do today if possible. You should be fine for the time period that you want to conduct your work.
Sorry, there is NO variance for leaving the well vault/collars or ring in place. To complete the paperwork by the inspector and to state that the well was indeed destroyed by County standards the well vault as a whole must be removed. You do not have to drill out the wells that have a utility conflict and that judgment and call can also be made by the inspector.

Let me know if that answers your questions or feel free to call me.

James

JAMES YOO
ENVIRONMENTAL COMPLIANCE SPECIALIST
ALAMEDA COUNTY PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 Elmhurst Street
Hayward, CA 94544
Ph: 510-670-6633
Fax: 510-782-1939
jamesy@acpwa.org
www.acgov.org/pwa/wells

From: Meyer, Christine [mailto:Christine.Meyer@arcadis-us.com]
Sent: Wednesday, July 29, 2015 11:03 AM
To: Yoo, James
Cc: Miller, Steve
Subject: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi James,

I understand that our permits are still in progress with ACPWA for the work in Alameda scheduled to start next week. Do you think we will have the permits reviewed before the end of the week?

I also wanted to check with you if we may have a variance to allow us to leave the well vault collars in place for the onsite wells. The site property is being redeveloped within the next two months and there are utility lines that run within three feet of the wells. Find attached the utility locate borehole clearance photos and utility site plans for the site. Please let me know if you have any questions.

Thanks,

Christine

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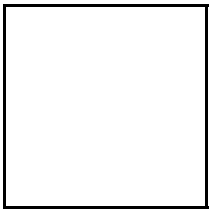

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CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2248 Boring: MW6 Plate: APPENDIX

Site: Former Tosco 76 Service St. on 0843 Date: 12/8/99

Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: MARK S. DOCKUM

Drill Rig: B57 Bore Hole Diameter: 8" Signature:

Location: 6.5 Feet from Curb 130 Feet North and 18 Feet East of Northeast Site Boundary Registration: R.G. 4412

Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6" asphalt, 6" concrete	
						Fill, sand with some gravel	
5	8					no recovery	
						Sand with some silt, yellowish orange, (25% silt, 75% sand), very fine-grained, wet	
10	21	▼ 5			SM	same as above	
15	19	28				same as above	
20	80	3				same as above	
						Total depth at 21.5 feet. First encountered groundwater at 9.8 feet.	

Casing Diameter: 2" Slot Size: 0.010 , Sand Size: 2/12 , Grout: Portland I/II

FN: 2248G006

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
C:\Users\jharris\Desktop\ENVCAD\B0047584\2014\00001\WORK PLAN\DWG\47584B01.dwg LAYOUT: 2 SAVED: 2/19/2014 12:07 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 2/19/2014 12:54 PM BY: HARRIS, JESSICA

XREFS: IMAGES: PROJECTNAME: ----
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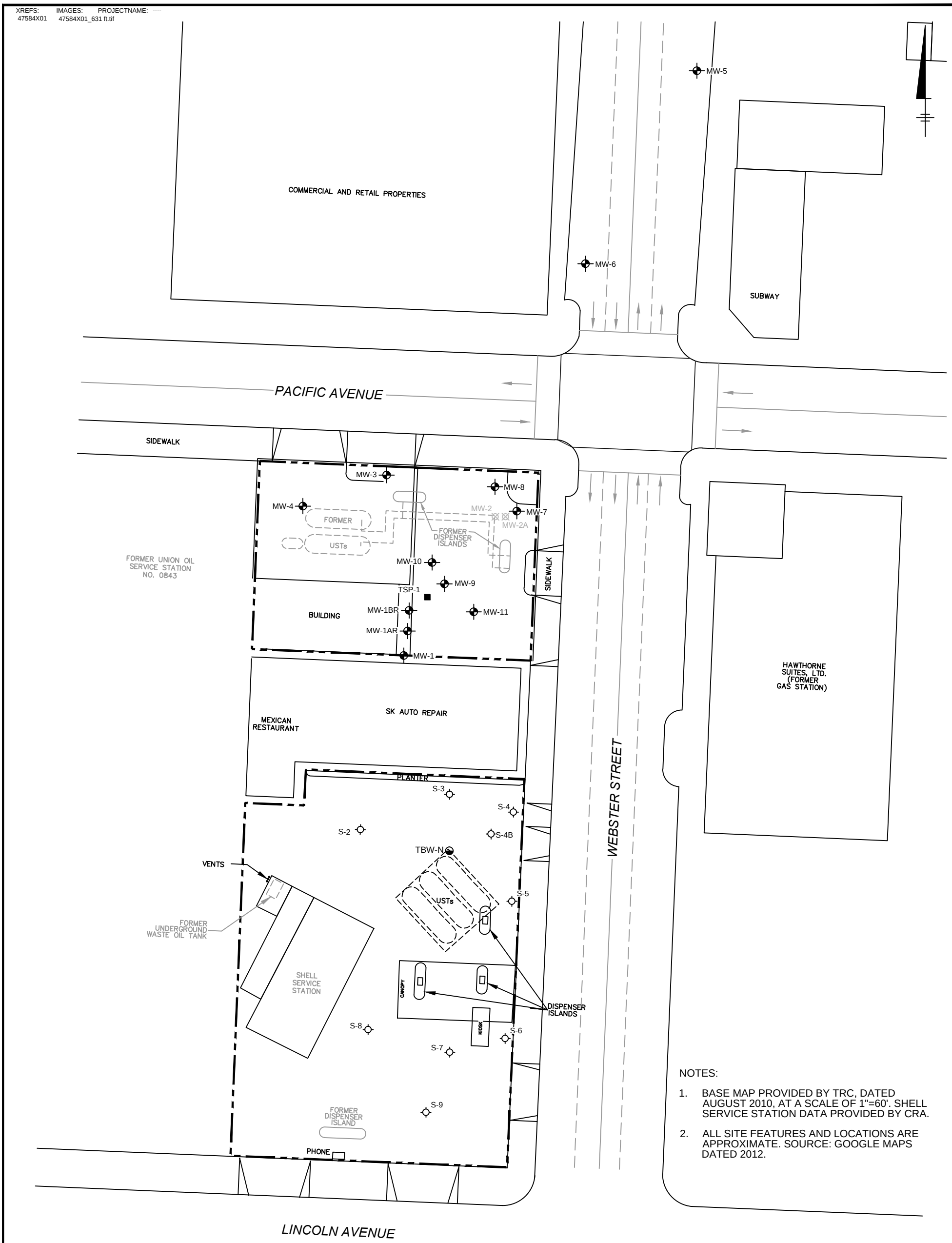

NOTES:

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2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER UNION OIL SERVICE STATION NO. 0843 MONITORING WELL (SHALLOW AND DEEP)
- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

Meyer, Christine

From: Philip Lee <plee@alamedaca.gov>
Sent: Tuesday, July 28, 2015 5:29 PM
To: Meyer, Christine
Subject: RE: monitoring well decommissioning-1629 Webster Street

Christine,

Leave the well vault collars in place and filling the void with concrete to finished grade. No need to dye the concrete black since the concrete collar around the well vault collar is not dyed.

Thanks,
Philip

From: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Sent: Tuesday, July 28, 2015 3:43 PM
To: Philip Lee
Subject: RE: monitoring well decommissioning-1629 Webster Street

Hi Philip,

We completed the utility locate in preparation for the work and noticed that there are a lot of utilities, most notably a water line and a gas line, running really close to the well vaults. Please find the photos of the locations attached. The proximity of the lines is a source of concern as we do not want to risk hitting a utility, especially a gas line. Does your engineer want to consider an authorization for a variance to allow us to either leave the well vault collars in place (remove the vault lids and fill with concrete) or to seal the vault lids in using Loctite? Please let me know if you have any questions.

Thanks,

Christine

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Sent: Thursday, July 16, 2015 2:58 PM
To: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Cc: Brandt, Katherine <Katherine.Brandt@arcadis-us.com>; Russi, Tonya <Tonya.Russi@arcadis-us.com>; Moniz, Robert <Robert.Moniz@arcadis-us.com>; Maurel, Sean <Sean.Maurel@arcadis-us.com>
Subject: RE: monitoring well decommissioning-1629 Webster Street

Hi Christine,

Your questions were forwarded to the engineer that happened to be reviewing Arcadis' permit EX15-0064 that was submitted on 7/13/15. Below are his comments to the permit. We will be sending all of our comments (including traffic) to the Permits Office on Monday. Please note our offices are closed on Fridays.

1. The well head shall be removed and disposed of.
2. If possible, the casing should be removed prior to sealing.
3. The well shall be sealed from the bottom to within 2 feet of the street surface by pressuring grouting. Grout may consist of Portland Cement, Concrete Bentonite, or Bentonite Chips.
4. The remainder of the well shall be filled with concrete to the final grade. Rapid setting concrete such as Quickcrete may be used and then dyed black to match the road.

Thanks,
Philip

From: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Sent: Wednesday, July 15, 2015 3:33 PM
To: Philip Lee
Cc: Brandt, Katherine; Russi, Tonya; Moniz, Robert; Maurel, Sean
Subject: RE: monitoring well decommissioning-1629 Webster Street

Hi Philip,

I wanted to confirm with you about the specifications for the top 6 inches of concrete. Can we keep it within the ~8 inch diameter original cut that is currently occupied by the vault and its associated concrete? Is standard Quickcrete acceptable or do we have to get a specific mix? Do you want it dyed black to match the road?

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com
ARCADIS U.S., Inc |2999 Oak Road, Suite 300 | Walnut Creek, CA 94597
T. 925.296.7830 | F. 925.274.1103
www.arcadis-us.com

From: Meyer, Christine
Sent: Monday, July 13, 2015 11:10 AM
To: 'Philip Lee'
Subject: RE: monitoring well decommissioning-1629 Webster Street

HI Philip,

Is there a specific concrete grade or mix that we need to use since the area is in the road and surrounded by asphalt? Can we just remove the vault area itself and fill from there or does it have to be stepped out a certain distance? Do you want us to saw cut the asphalt?

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com
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From: Philip Lee [mailto:plee@alamedaca.gov]
Sent: Monday, July 13, 2015 10:57 AM
To: Meyer, Christine
Subject: RE: monitoring well decommissioning-1629 Webster Street

Christine,

The well should be backfilled with Bentonite, except for the top 6" which should be backfilled with concrete. The well cap should be removed and disposed of.

Philip

From: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Sent: Monday, July 13, 2015 10:18 AM
To: Bob Claire; Philip Lee
Cc: Russi, Tonya; Maurel, Sean
Subject: monitoring well decommissioning-1629 Webster Street

Hi Bob and Philip,

We are preparing to decommission the monitoring wells associated with the site located at 1629 Webster Street in Alameda. I wanted to verify with you on the preference for the surface completion of the two locations that are in the City Right of Way in Webster Street (please see attached figure). Could you please let us know if we are allowed to leave vaults that are in good condition in place to reduce the amount of impacts to traffic or if we need to perform surface modifications to the area to match the surrounding materials?

Thanks,

Christine

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Meyer, Christine

From: Yoo, James <jamesy@acpwa.org>
Sent: Monday, August 03, 2015 4:23 PM
To: Meyer, Christine
Cc: Miller, Steve; lfuruyama@groundzonees.com; Sam Brathwaite (sbrathwaite@groundzonees.com)
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi Christine,

Yes, I informed Lindsay your assigned inspector know and you should be fine with the City Engineers request to pressure grout the wells MW-5 and MW-6 and leave the vault collar and rings in place in the Right-Of-Way.

James

JAMES YOO
ENVIRONMENTAL COMPLIANCE SPECIALIST
ALAMEDA COUNTY PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 Elmhurst Street
Hayward, CA 94544
Ph: 510-670-6633
Fax: 510-782-1939
jamesy@acpwa.org
www.acgov.org/pwa/wells

From: Meyer, Christine [mailto:Christine.Meyer@arcadis-us.com]
Sent: Monday, August 03, 2015 4:08 PM
To: Yoo, James
Cc: Miller, Steve
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi James,

I wanted to verify with you that we can proceed with the surface completions in the City of Alameda right of way per their engineer's direction (removing the well vault lids, pressure grouting, backfilling the fault to the surface with concrete). Can you please send me an email in response at your earliest convenience?

Thanks,

Christine

Christine J. Meyer, GIT | Staff Geoscientist | Christine.Meyer@arcadis-us.com

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From: Meyer, Christine
Sent: Wednesday, July 29, 2015 3:41 PM
To: 'Yoo, James' <jamesy@acpwa.org>
Cc: Miller, Steve <stevem@acpwa.org>
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi James,

Thank you for returning my call. We will continue with the plan, per our discussion and your previous planning with Kathy Brandt, to pressure grout the monitoring wells and having TSP-1, an ozone injection well, over drilled to depth. The vaults will be removed from on site wells and the wells near utilities will be removed according to the inspector's discretion. The onsite locations will all be backfilled with concrete to surface to avoid a tripping hazard.

Please find attached the surface completion detail direction as directed by the City of Alameda for the wells MW-5 and MW-6 (located in Webster Street-City of Alameda right of way). Per our discussion, this email will be included in the well decommissioning report to confirm that the vault collars and rings will be left in place per City of Alameda's direction. Please let me know if you have any questions.

Thanks,

Christine

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From: Yoo, James [mailto:jamesy@acpwa.org]
Sent: Wednesday, July 29, 2015 2:32 PM
To: Meyer, Christine <Christine.Meyer@arcadis-us.com>
Cc: Miller, Steve <stevem@acpwa.org>
Subject: RE: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi Christine,

I try to get this permit out in the next day or so. I hope to do today if possible. You should be fine for the time period that you want to conduct your work.
Sorry, there is NO variance for leaving the well vault/collars or ring in place. To complete the paperwork by the inspector and to state that the well was indeed destroyed by County standards the well vault as a whole must be removed. You do not have to drill out the wells that have a utility conflict and that judgment and call can also be made by the inspector.

Let me know if that answers your questions or feel free to call me.

James

JAMES YOO
ENVIRONMENTAL COMPLIANCE SPECIALIST
ALAMEDA COUNTY PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 Elmhurst Street
Hayward, CA 94544
Ph: 510-670-6633
Fax: 510-782-1939
jamesy@acpwa.org
www.acgov.org/pwa/wells

From: Meyer, Christine [mailto:Christine.Meyer@arcadis-us.com]
Sent: Wednesday, July 29, 2015 11:03 AM
To: Yoo, James
Cc: Miller, Steve
Subject: Chevron-Alameda (1629 Webster St, Alameda, CA)

Hi James,

I understand that our permits are still in progress with ACPWA for the work in Alameda scheduled to start next week. Do you think we will have the permits reviewed before the end of the week?

I also wanted to check with you if we may have a variance to allow us to leave the well vault collars in place for the onsite wells. The site property is being redeveloped within the next two months and there are utility lines that run within three feet of the wells. Find attached the utility locate borehole clearance photos and utility site plans for the site. Please let me know if you have any questions.

Thanks,

Christine

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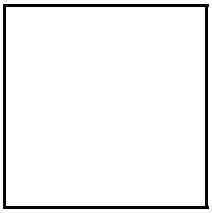

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CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Delta Consultants

Project No:	C102349210	Client:	**ConocoPhillips**
Logged By:	Alan Buehler	Location:	**1629 Webster Street**
Driller:	**RSI Drilling**		**Alameda, California**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	30'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	29.7'
Gravel Pack:	Filter Sand	First Water Depth:	9.5'
Elevation		Northing	Easting

Well No: **MW-7**
Date Drilled: 5/14/09
Page **1** of **2**

▽ = First Water
▼ = Static Groundwater

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Well Box; Concrete Seal; 2"Sched. 40PVC Blank Casing; Bentonite Seal	▼				Air-Knife	1–5				Silty sand with gravel; presence of non-native fill material (i.e. brick and railroad ties.)
		damp	14.0			5			SM	Silty sand with gravel; continued presence of non-native fill described above.
						6			SC	Clayey Sand; green to gray; slight odor.
			1530			8			SC	Same as above. Increased strong odor.
	▽	wet				9				
			1530		16:45 @ 10'	10			SC	Same as above.
						12			SC	Same as above. Less odor.
			72.0			15			SC	Same as above.
						17			SC	Same as above. Brown mottling noticed.
			9.5			20			SC	Same as above; no odor.

Delta
Consultants

Project No: C102349210
Logged By: Caitlin Morgan
Driller: **RSI Drilling**
Drilling Method: Hollow Stem Auger
Sampling Method: Split Spoon
Casing Type: Sched. 40 PVC
Slot Size: 0.02
Gravel Pack: Filter Sand

Client: **ConocoPhillips**
Location: **1629 Webster Street**
Alameda, California
Hole Diameter: 8"
Hole Depth: 30'
Well Diameter: 2"
Well Depth: 29.7'
First Water Depth: 9.5'

Well No: **MW-7**
Date Drilled: 5/14/09

▽ = First Water
▼ = Static Groundwater

Elevation | Northing | Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Filter Sand		Sat.	8.3		25			SC	Clayey sand; green to gray.
		Sat.	8.0		30			SC	Clayey sand; green to gray.
									Total Depth of Boring = 30 Feet Below Ground Surface (bgs)

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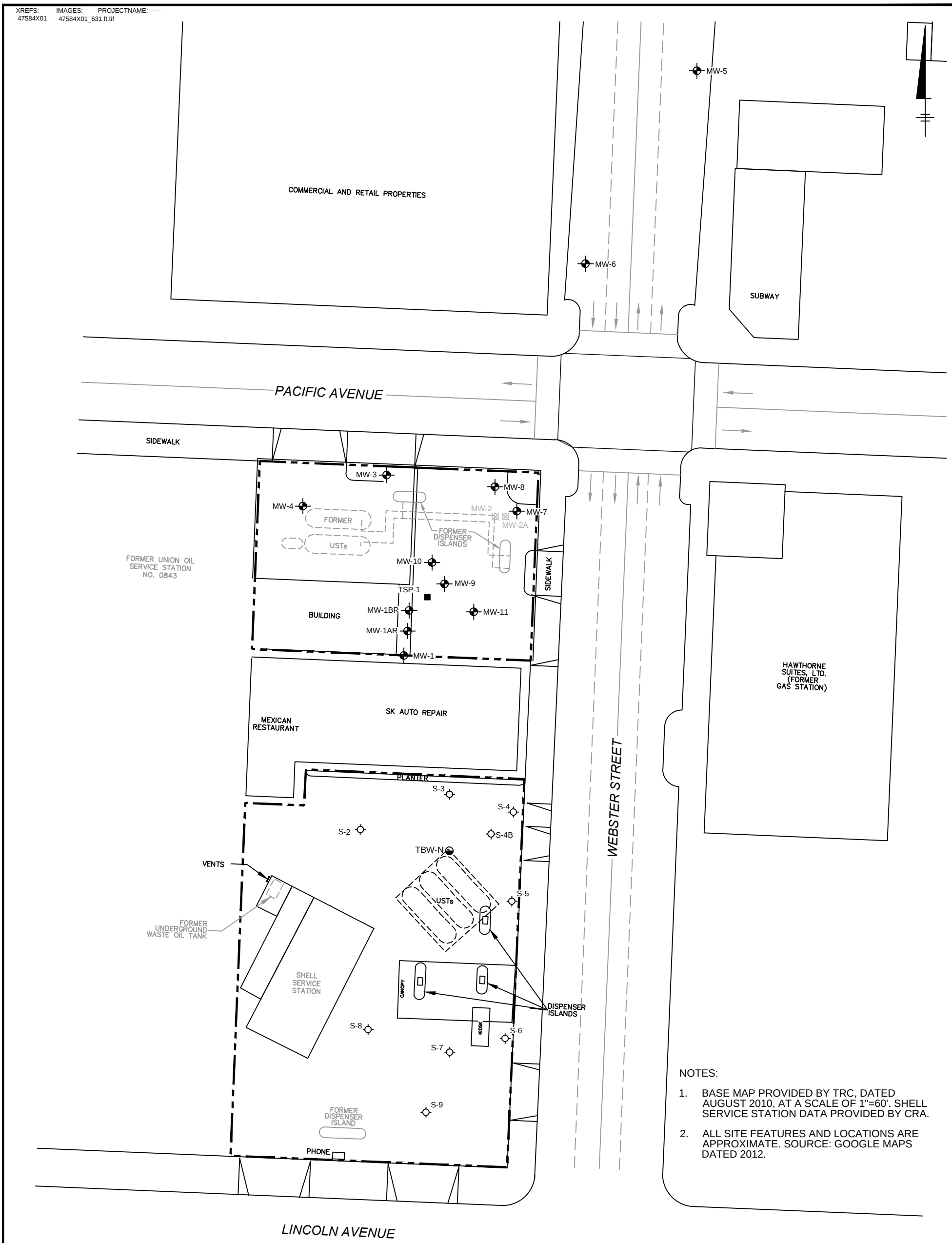


NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER UNION OIL SERVICE STATION NO. 0843 MONITORING WELL (SHALLOW AND DEEP)
- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

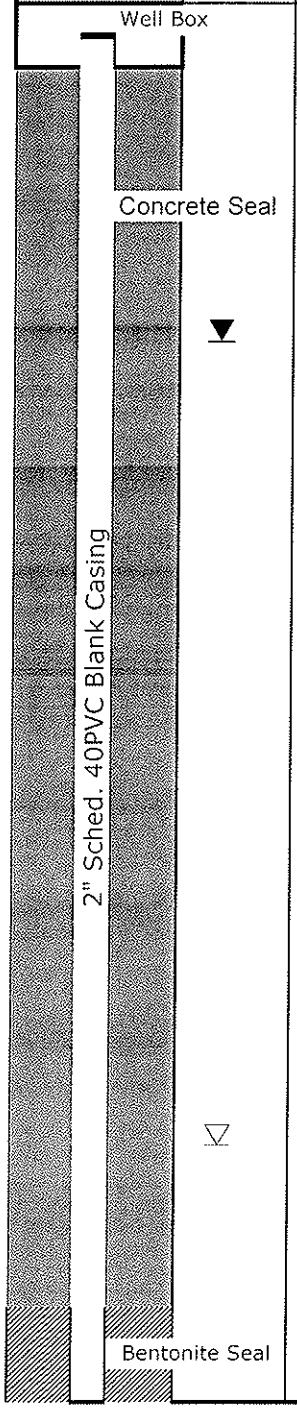
Delta
Consultants

Project No:	C102349210	Client:	**ConocoPhillips**
Logged By:	Caitlin Morgan	Location:	**1629 Webster Street**
Driller:	**RSI Drilling**		**Alameda, CA**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	30'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	29.5'
Gravel Pack:	Filter Sand	First Water Depth:	18'

Well No: **MW-8**
Date Drilled: 5/14/09

▽ = First Water
▼ = Static Groundwater

Elevation | Northing | Easting



Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
					Air-Knife	1–4			SW	Well graded sand with clay and gravel, trace roots.
	▼	moist	0.2			5–7			SW	Well graded sand with clay and gravel, trace roots; dark brown.
		moist	0.2			8–9			SW-SM	Well graded sand with silt, trace clay. More moist than above.
		moist	0.2			10–14			SW-SM	Same as above. Slight odor.
		wet	3.1		12:36 @ 15'	15–16			SC	Clayey sand, trace roots; gray; more moist than above; slight odor.
						17			SC	Same as above. Some brown mottling; less clay.
	▽	sat.				18–19			SW-SM	Well graded sand with silt, trace clay.
		sat.	0.5			20–22			SW-SM	Same as above. Less mottling.

Delta
Consultants

Project No: C102349210
Logged By: Caitlin Morgan
Driller: **RSI Drilling**
Drilling Method: Hollow Stem Auger
Sampling Method: Split Spoon
Casing Type: Sched. 40 PVC
Slot Size: 0.02
Gravel Pack: Filter Sand

Client: **ConocoPhillips**
Location: **1629 Webster Street**
Alameda, California
Hole Diameter: 8"
Hole Depth: 30'
Well Diameter: 2"
Well Depth: 29.5'
First Water Depth: 18'

Well No: **MW-8**
Date Drilled: 5/14/09

▽ = First Water
▼ = Static Groundwater

Elevation | Northing | Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Filter Sand		sat.	0.4		25			SW-SM	Same as above.
		sat.	0.4		29			SW-SM	Same as above.
					30				**Total Depth of Boring = 30 Feet Below Ground Surface (bgs)**
					23, 24, 26, 27, 28, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44				

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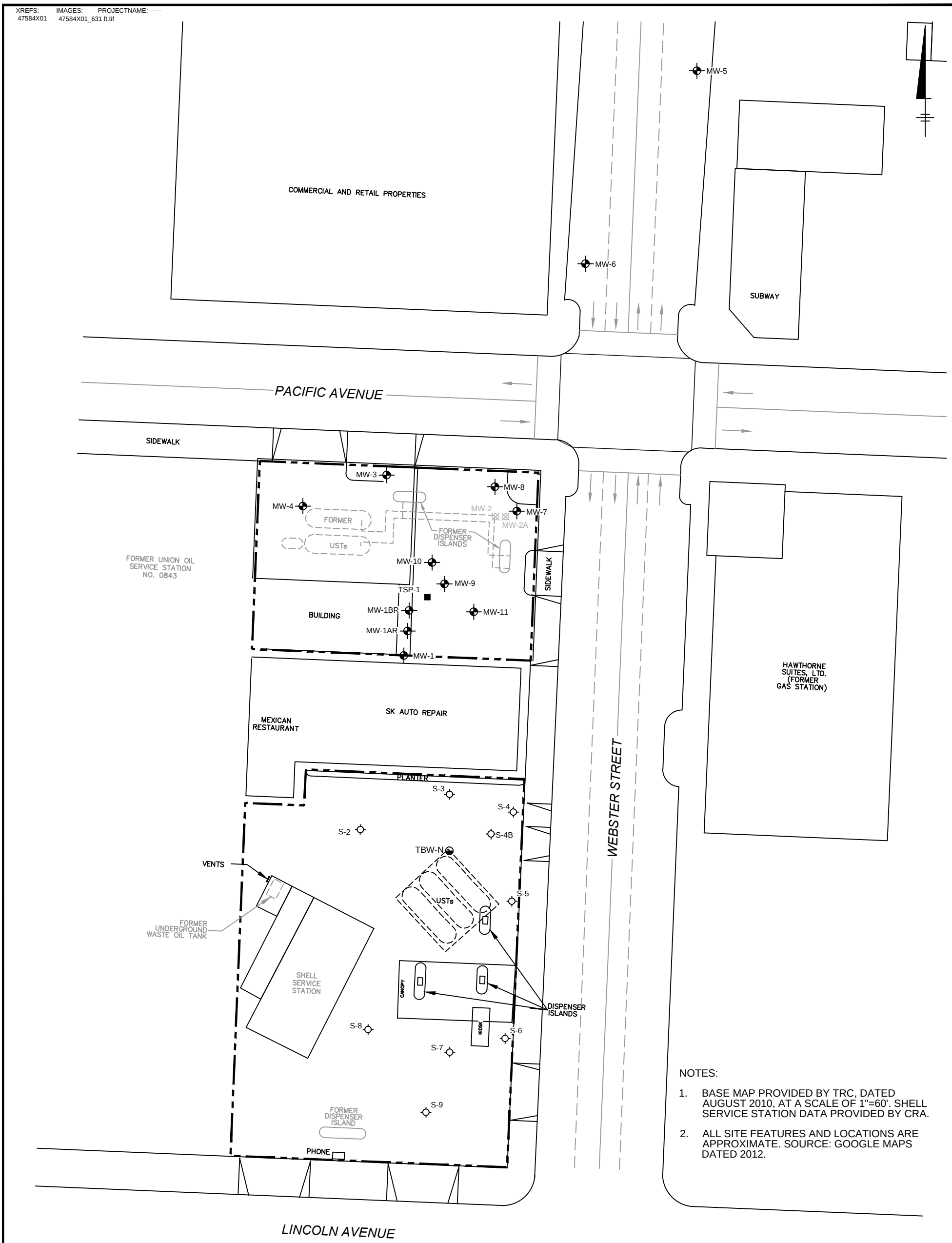

NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

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- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

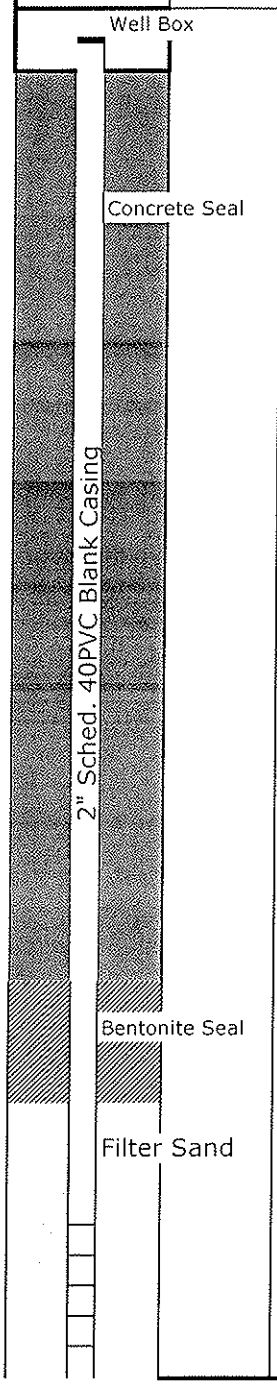
Delta
Consultants

Project No:	C102349210	Client:	**ConocoPhillips**	Well No:	**MW-9**
Logged By:	Caitlin Morgan	Location:	**1629 Webster Street**	Date Drilled:	5/13/09
Driller:	**RSI Drilling**		**Alameda, California**	Page	**1** of **2**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"		
Sampling Method:	Split Spoon	Hole Depth:	25'		
Casing Type:	Sched. 40PVC	Well Diameter:	8"		
Slot Size:	0.02	Well Depth:	24.8'		
Gravel Pack:	Filter Sand	First Water Depth:	N/A		

▽ = First Water

▼ = Static Groundwater

Elevation	Northing	Easting



Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
			Air-Knife	1–4			SW-SM	Well graded sand with silt and gravel; brown.
moist	18			5–9			SW-SM	Well graded sand with silt and gravel, trace clay, trace wood chips; brown to light brown.
moist	2105		MW-9 @10' 14:40	10–14			SW-SC	Same as above; more clay. Greenish gray; strong petroleum hydrocarbon odor.
moist	520			15–18			SW-SC	Same as above; brown w/ some greenish gray; less odor from the sample itself however at this point drillers note strong petroleum hydrocarbon odor coming from borehole. PID of 12.0 was obtained from above the open borehole/auger.
sat.	183			19–22			SW-SM	Well graded sand with silt, trace clay; brown to light brown; moist; low odors.

Delta
Consultants

Project No: C102349210
Logged By: Caitlin Morgan
Driller: **RSI Drilling**
Drilling Method: Hollow Stem Auger
Sampling Method: Split Spoon
Casing Sched. 40PVC
Slot Size: 0.02
Gravel Pack: Filter Sand

Client: **ConocoPhillips**
Location: **1629 Webster Street**
Alameda, California
Hole Diameter: 8"
Hole Depth: 25'
Well Diameter: 2"
Well Depth: 24.8'
First Water Depth: N/A

Well No: **MW-9**
Date Drilled: 5/13/09

▽ = First Water
▼ = Static Groundwater

Elevation | Northing | Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
		sat.			23			**SW-SM**	Well graded sand with silt, trace clay; brown to light brown; moist; low odors.
					24				
					25				**Total Depth of Boring = 25 Feet Below Ground Surface (bgs)**
					26				
					27				
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

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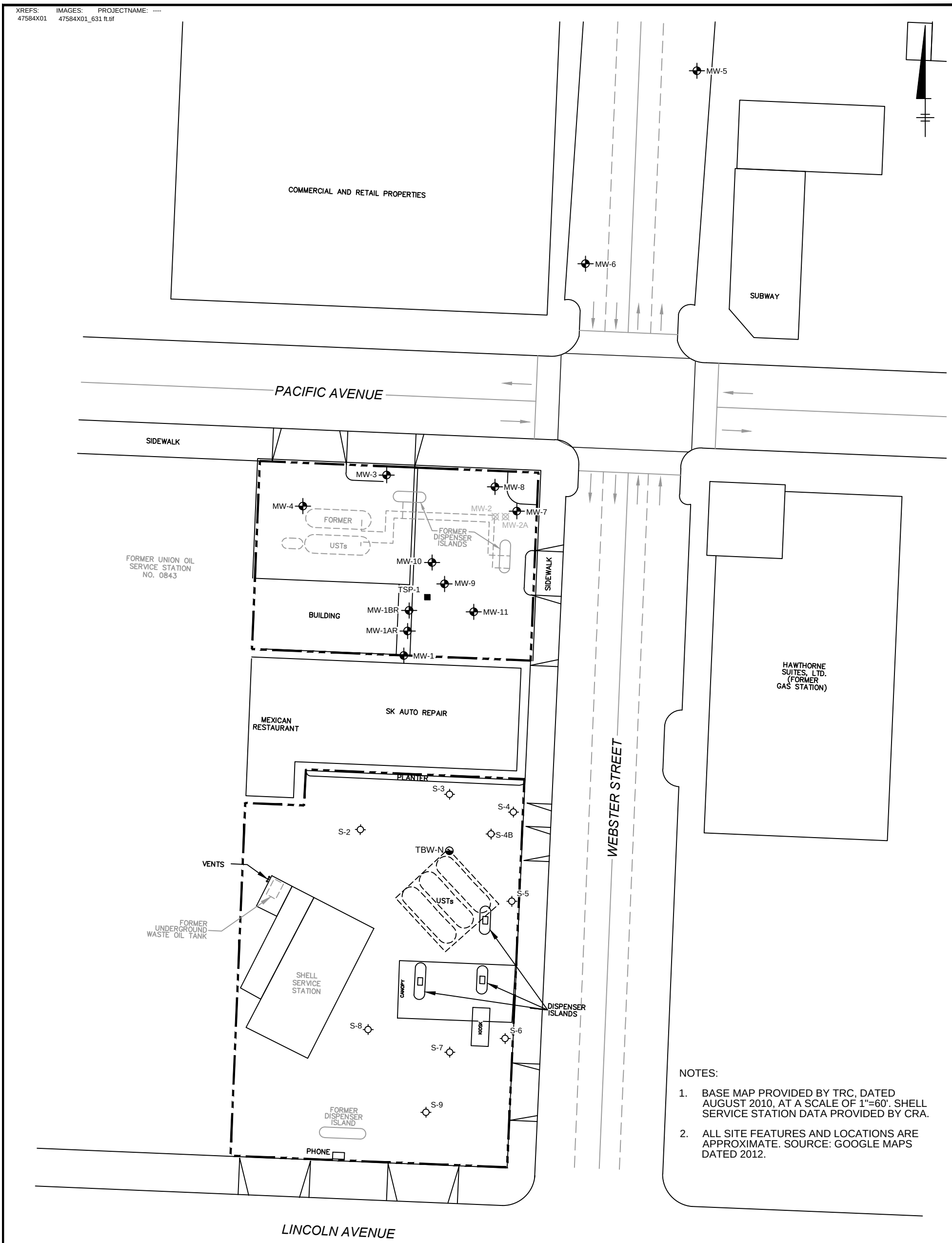

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2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

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- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

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FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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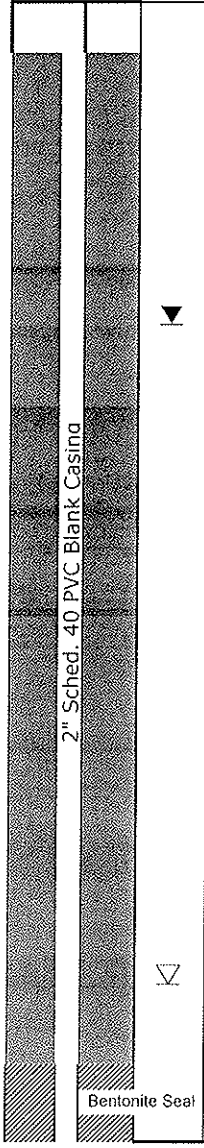
Delta Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-10**
Logged By:	Caitlin Morgan	Location: **1629 Webster Steet**	Date Drilled: 5/20/09
Driller: **RSI Drilling**		**Alameda, California**	Page **1** of **2**
Drilling Method:	Geoprobe	Hole Diameter: 8"	
Sampling Method:	Direct Push	Hole Depth: 30'	▽ = First Water
Casing Type:	Sched. 40 PVC	Well Diameter: 2"	▼ = Static Groundwater
Slot Size:	0.02	Well Depth: 30'	
Gravel Pack:	Filter Sand	First Water Depth: 19'	
Elevation		Northing	Easting



Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
				Air-Knife	1				Silty sand; trace clay and gravel.
					2				
					3				
					4				
	moist	23.0			5				**SC** Clayey sand; brown; fine to medium fine; medium plasticity; firm; slight odor.
▼					6				
					7				
					8				**SP-SC** Poorly graded sand with clay; brown with some gray; medium plasticity; soft; slight odor.
					9				
	moist	57.4		9:23 @ 10'	10				**SP-SM** Poorly graded sand with silt; fine grained; low plasticity; soft; odor more prevalent.
					11				
					12				
					13				
					14				**SP-SC** Same as at 8-feet.
	damp	0			15				**SP-SM** Same as at 10-feet. More moisture; no odor.
					16				
					17				*** Drillers indicate presence of heaving sands.
					18				
					19				
▽					20				
	sat.	3			21				**SM** Silty sand; brown.
					22				

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-10**
Logged By:	Caitlin Morgan	Location: **1629 Webster Street**	Date Drilled: 5/20/2009
Driller: **RSI Drilling**		**Alameda, California**	Page **2** of **2**
Drilling Method:	Geoprobe	Hole Diameter: 8"	
Sampling Method:	Direct Push	Hole Depth: 30"	▽ = First Water
Casing Type:	PVC	Well Diameter: 2"	▼ = Static Groundwater
Slot Size:	0.02	Well Depth: 30'	
Gravel Pack:	Filter Sand	First Water Depth: 19'	
Elevation		Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
		Sat.	2.9		24			SM	Continued heaving sands.
		Sat.	2.3		29			SM	Same as above.
					30				**Total Depth of Boring= 30 Feet Below Ground Surface (bgs)**
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
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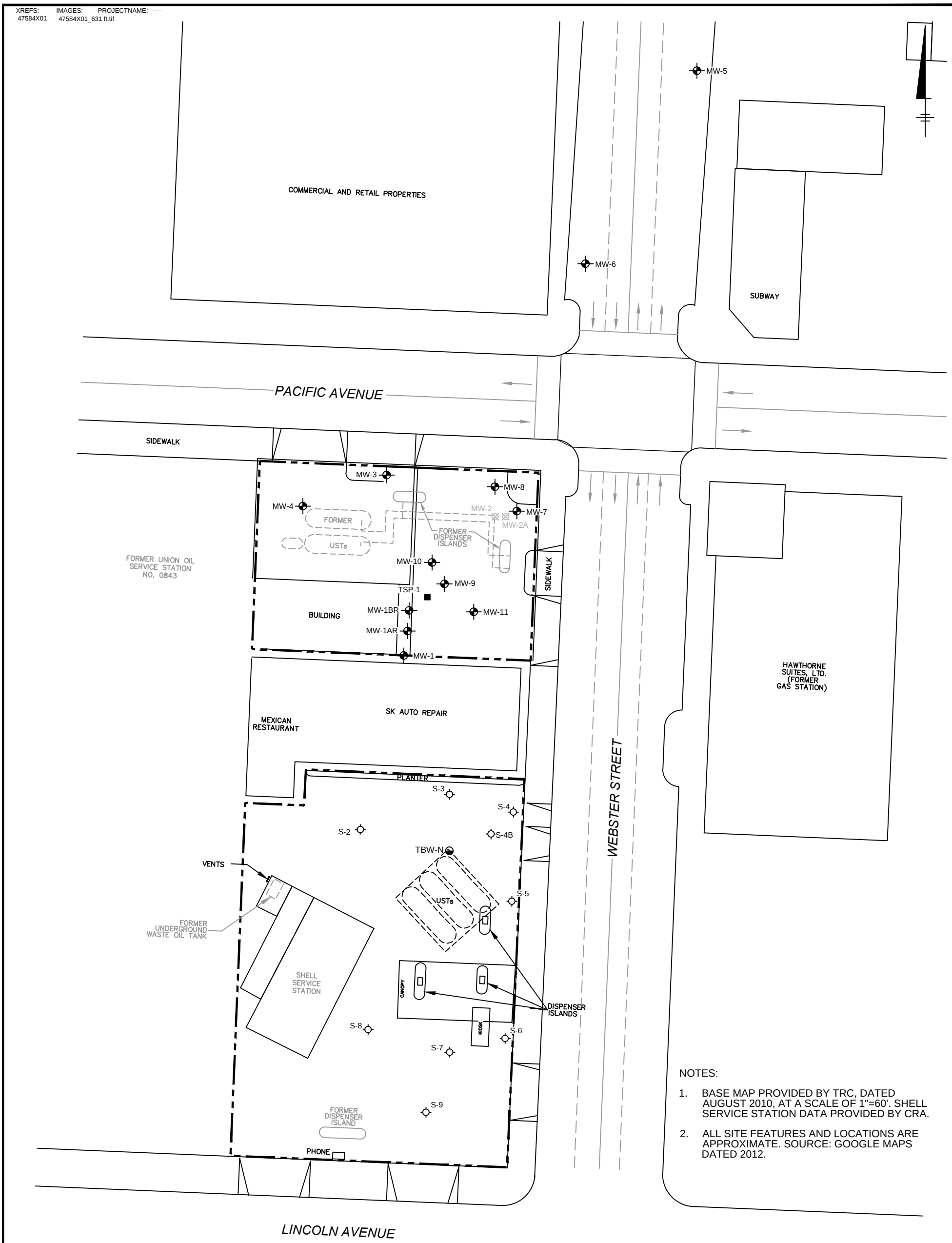


NOTES:

1. BASE MAP PROVIDED BY TRC, DATED AUGUST 2010, AT A SCALE OF 1"=60'. SHELL SERVICE STATION DATA PROVIDED BY CRA.
2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE. SOURCE: GOOGLE MAPS DATED 2012.

LEGEND

- PROPERTY BOUNDARY
- MW-1 — FORMER UNION OIL SERVICE STATION NO. 0843 MONITORING WELL (SHALLOW AND DEEP)
- TSP-1 — FORMER UNION OIL SERVICE STATION NO. 0843 TEMPORARY SPARGE POINT
- S-3 — SHELL SERVICE STATION MONITORING WELL (SHALLOW)
- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

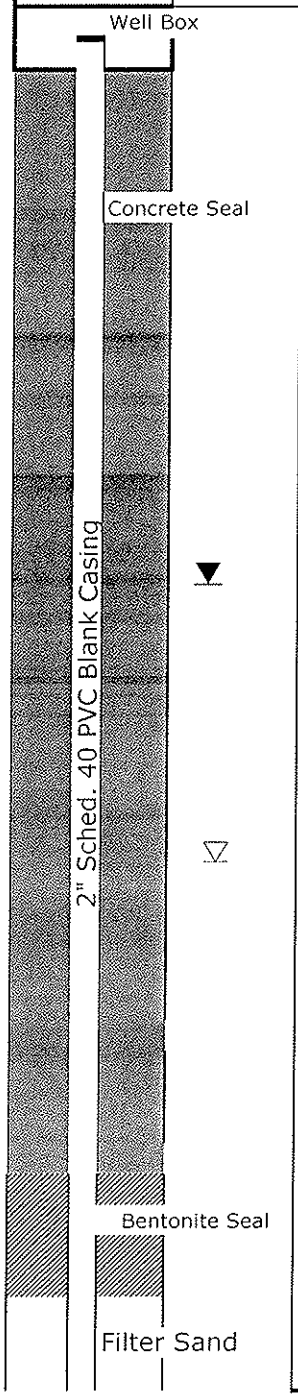
Delta
Consultants

Project No:	C102349210	Client:	**ConocoPhillips**
Logged By:	Caitlin Morgan	Location:	**1620 Webster Street**
Driller:	**RSI Drilling**		**Alameda, California**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	28'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	28.0'
Gravel Pack:	Filter Sand	First Water Depth:	14'
Elevation		Northing	Easting

Well No: **MW-11**
Date Drilled: 5/15/09

▽ = First Water

▼ = Static Groundwater



Depth (feet)	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
1–5				Air-Knife			SW-SM	Sandy clay, trace silt; brown to light brown; trace organics, also debris/fill including ceramic kitchenware.
5	dry	0.0					SC	Clayey sand with gravel; light brown, trace roots.
7	moist	0.0					SW-SM	Well graded sand with silt and gravel; brown.
10	moist	18.3		9:15 @ 10'			SC	Clayey sand with silt; gray; slight odor.
15	damp	3.4					SC	Same as above.
17							SC	Same as above; slight petroleum hydrocarbon odor.
20	sat.	1.5					SC	Same as above.

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	Well No: **MW-11**
Logged By:	Caitlin Morgan	Location: **1629 Webster Street** Alameda, California	Date Drilled: 5/15/09
Driller: **RSI Drilling**			Page **2** of **2**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	25'
Casing Type:	Sched. 40 PVC	Well Diameter:	2"
Slot Size:	0.02	Well Depth:	28"
Gravel Pack:	Filter Sand	First Water Depth:	14'

▽ = First Water

▼ = Static Groundwater

Elevation	Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
		sat.	1.3		23–27			SC	Sandy clay with silt; gray; slight odor.
					28				**Total Depth of Boring = 28 Feet Below Ground Surface (bgs)**
					29–44				

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
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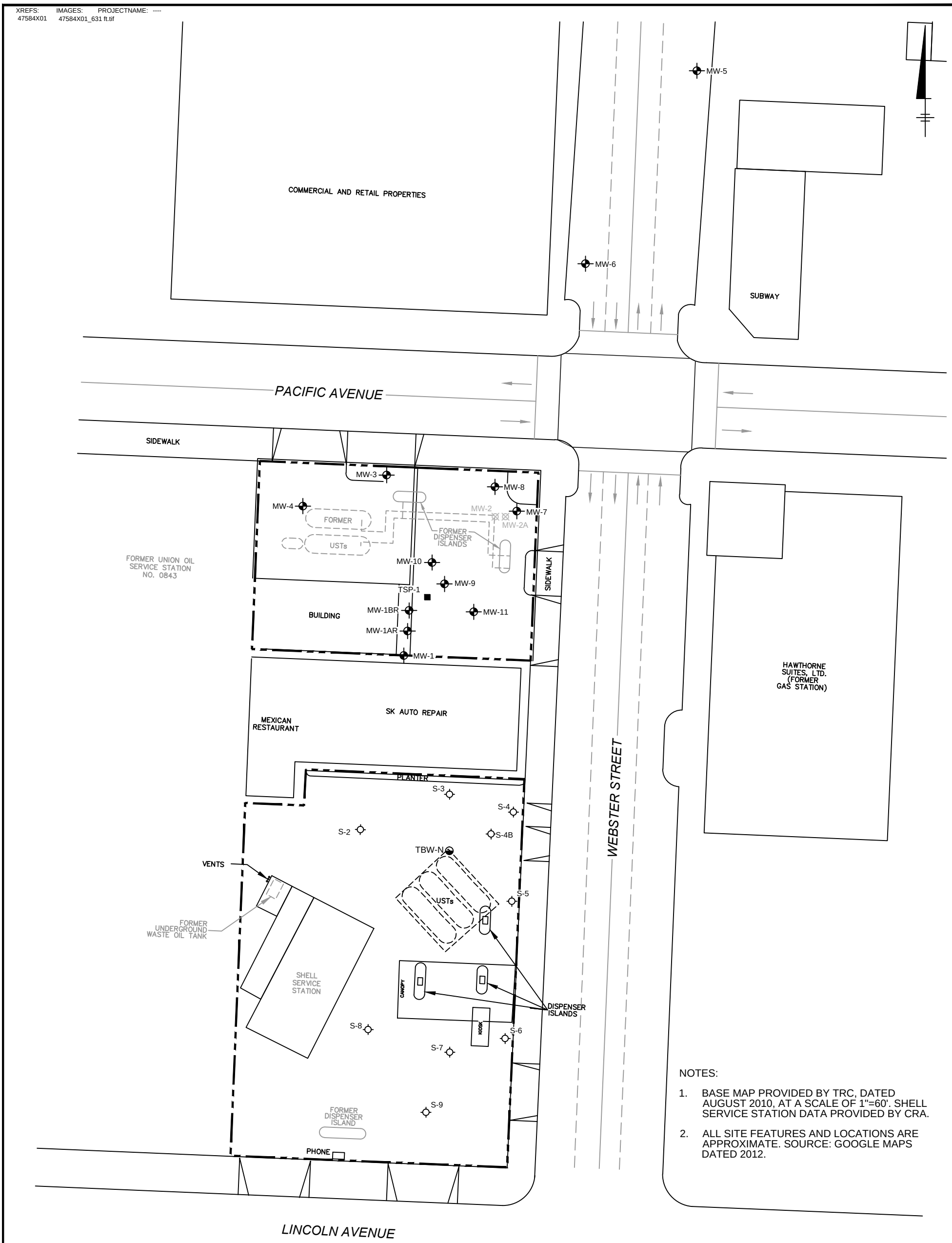

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- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

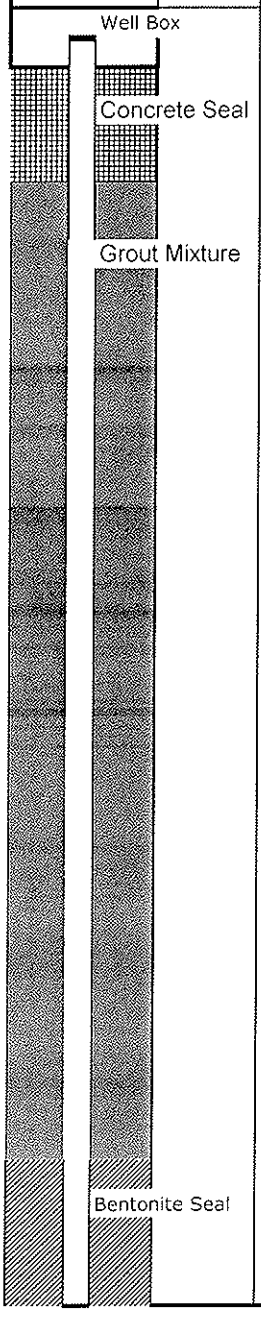
REMOVED

Delta
Consultants

Project No:	C102349210	Client:	**ConocoPhillips**
Logged By:	Alan Buehler	Location:	**1629 Webster Street**
Driller:	**RSI Drilling**		**Alameda, California**
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	30.5' bgs
Casing Type:	Sched. 40 PVC	Well Diameter:	3/4"
Slot Size:	0.020	Well Depth:	30'
Gravel Pack:	Filter Pack	First Water Depth:	N/A
Elevation		Northing	Easting

Well No: **TSP-1**
Date Drilled: 5/14/2009

▽ = First Water
▼ = Static Groundwater



Depth (feet)	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Sample Identification	Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
1–4				Air-Knife				
5	moist	0.4					SW	Well graded sand, trace fine gravel; brown.
8–9	moist						SW-SM	Fine to medium sand, with trace silt; light brown.
10–11		0.3					SW-SM	Same as above; trace clay.
12	wet						SM	Silty sand; medium firmness.
15		0.5					SM	Same as above.
20	sat.	3.2	9:10 @ 20'				SM	Same as above.
22								*** Encountered heaving sands to total depth explored.

Delta
Consultants

Project No:	C102349210	Client: **ConocoPhillips**	
Logged By:	Alan Buehler	Location: 1629 Webster Street	
Driller: **RSI Drilling**		**Alameda, California**	
Drilling Method:	Hollow Stem Auger	Hole Diameter:	8"
Sampling Method:	Split Spoon	Hole Depth:	30.5'
Casing Type:	Sched. 40 PVC	Well Diameter:	3/4"
Slot Size:	0.020	Well Depth:	30'
Gravel Pack:	Filter Sand	First Water Depth:	N/A

Well No: **TSP-1**
Date Drilled: 5/14/09

▽ = First Water
▼ = Static Groundwater

Elevation | Northing | Easting

Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						23				
						24				
						25				*** Encountered heaving sands to total depth explored.
						26				
						27				
						28				
						29				
						30				
						31				**Total depth of boring= 30.5' bgs**
						32				
						33				
						34				
						35				
						36				
						37				
						38				
						39				
						40				
						41				
						42				
						43				
						44				

Sugar Sand

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV DB: J. HARRIS, B. ROBITAILLE, J. HARRIS
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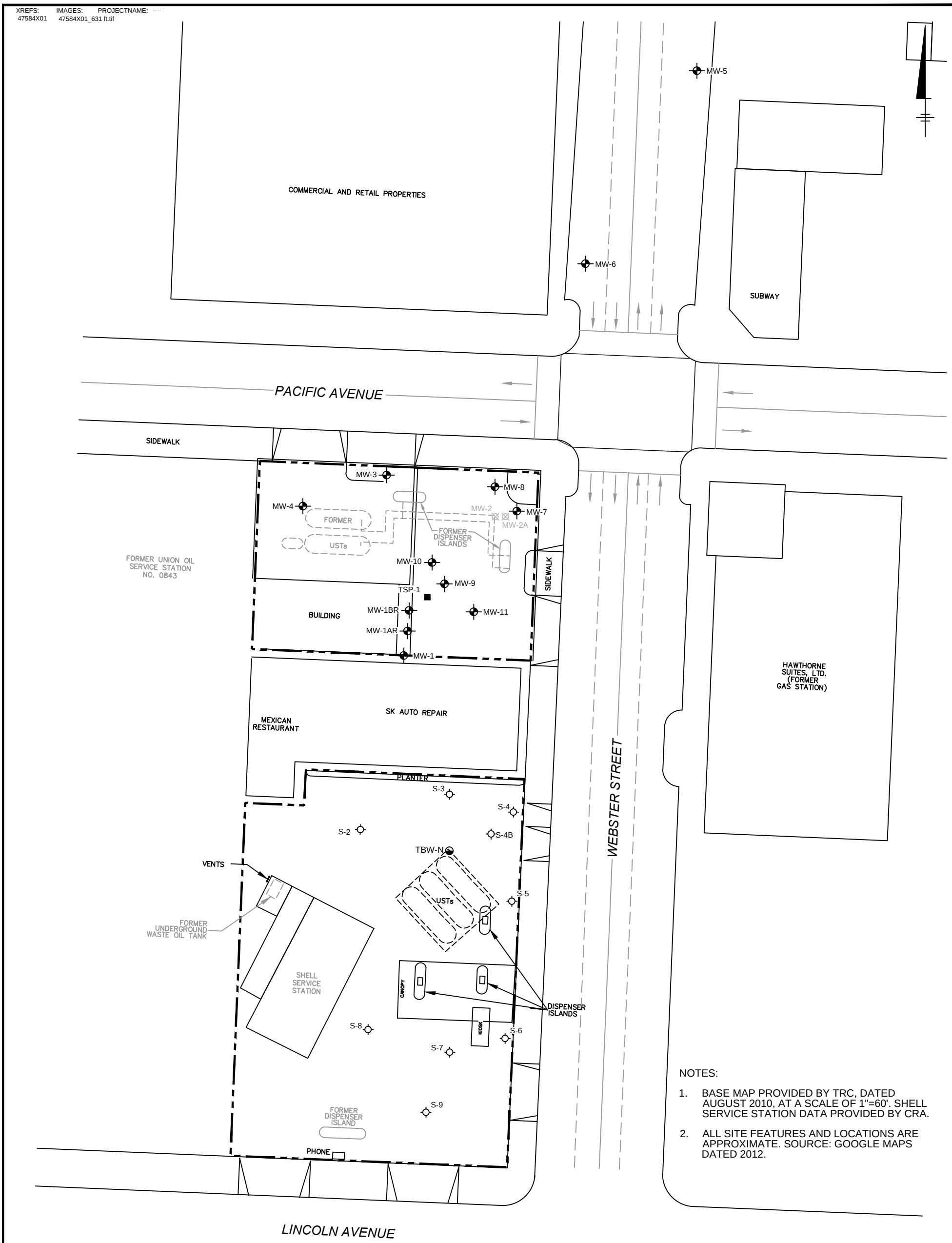

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- TBW-N — SHELL TANK BACKFILL MONITORING WELL
- MW-2A — ABANDONED WELL

0 40' 80'

APPROXIMATE SCALE

UNION OIL COMPANY OF CALIFORNIA
FORMER FACILITY NO. 0843
1629 WEBSTER STREET
ALAMEDA, CALIFORNIA

SITE PLAN

ARCADIS

FIGURE
2

Appendix F

Waste Manifest

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	(800) 424-9300	WR3118-001

GENERATOR

5. Generator's Name and Mailing Address
Chevron Environmental Management Co.
c/o Chevron Products Company Waste Desk
P.O. Box 6004
San Ramon, CA 94583
Generator's Phone: (877) 384-6044

Generator's Site Address (if different than mailing address)
Former Unocal 351840
1829 Webster Street
Alameda, CA 94501

6. Transporter 1 Company Name
BELSHIRE
U.S. EPA ID Number
CAR000135013

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Altamont Landfill and Resource Recovery Fac.
10840 Altamont Pass Road
Livermore, CA 94550
Facility's Phone: (925) 455-7500
U.S. EPA ID Number
CAD981382732

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non DOT Regulated Material (Soil contaminated with petroleum products, non-hazardous)	004	DM	2400	P	
2.						
3.				/		
4.						

13. Special Handling Instructions and Additional Information
BES#:257697
ERG: N/A
SITE ID: 351840
WR3118
PROFILE #: 81885MCA
WEAR LEVEL D PPE & SPLASH PROTECTION (IF APPLICABLE)

INT'L

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Larry Meathert of BES! on behalf of generator		05	13	13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Steven E. Mendoza		05	13	13
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)		Month	Day	Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year

169-BLC-O 6 10498 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY