

James P. Kiernan, P.E. Project Manager

Chevron Environmental Management Company 6001 Bollinger Canyon Road Room C2102 San Ramon, CA 94583 Tel (925) 842-3220 jkiernan@chevron.com

June 12, 2018

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

Re:

Former Unocal No. 6129 (351639)

Well Destruction Report

3420 35th Avenue, Oakland, California Fuel Leak Case No.: RO0000058 GeoTracker Global ID #T0600101465

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to the SWRCB's GeoTracker website.

The information in this report is accurate to the best of my knowledge. This report was prepared by Arcadis, upon whose assistance and advice I have relied.

Sincerely,

James P. Kiernan, P.E.

Project Manager

Attachment: Well Destruction Report by Arcadis



Chevron Environmental Management Company

WELL DESTRUCTION REPORT

Former Unocal #6129 (351639) 3420 35th Avenue Oakland, California Fuel Leak Case No. RO0000058

June 12, 2018

Former Unocal #6129 (351639) 3420 35th Avenue Oakland, California Fuel Leak Case No. RO0000058

Jennifer Granborg
Task Manager

Katherine Brandt
No 9132
3/31/20

Katherine Szymanowski (formerly Brandt), P.G.

(No.9132)

Project Manager / Principal Geologist

Prepared for:

Chevron Environmental Management Company

Prepared by:

Arcadis U.S., Inc.

100 Montgomery Street

Suite 300

San Francisco

California 94104

Tel 415 374 2744

Fax 415 374 2745

Our Ref.:

Y0235135.1639

Date:

June 12, 2018

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

CONTENTS

Acr	onym	ns and	Abbreviations	i								
1	Intro	duction	١	1								
	1.1	Site D	escription and Background	1								
	1.2	Well D	Destruction Planning and Previous Activities	1								
	1.3 Summary of Completed Actions											
2	Well	Destru	uction Scope Of Work	2								
	2.1	Pre-fie	eld Activities	2								
		2.1.1	Health and Safety	2								
		2.1.2	Utility Clearance	2								
		2.1.3	Permitting	2								
		2.1.4	Access to On-Site Well Locations	2								
	2.2	Well D	Destruction Activities	2								
		2.2.1	Borehole Inspection Activities	2								
		2.2.2	Pressure Grouting Activities	2								
		2.2.3	Surface Completions	3								
	2.3	Well C	Completion Reports	3								
	2.4	Waste	Disposal	3								
3	Con	clusion	s and Recommendations	3								
4	Refe	erences	S	3								

TABLE

1 Well Destruction Details

FIGURES

- 1 Site Location Map
- 2 Site Plan

APPENDICES

- A ACDEH Correspondence
- B Permits
- C Boring Logs and Well Construction Diagrams
- D Well Completion Reports

ACRONYMS AND ABBREVIATIONS

ACDEH Alameda County Department of Environmental Health

ACPWA Alameda County Public Works Agency

Arcadis U.S., Inc.

bgs below ground surface
Cascade Cascade Drilling L.P.

CEMC Chevron Environmental Management Company

DWR California Department of Water Resources

Site 3420 35th Avenue, Oakland, California

Union Oil Union Oil Company of California

USA-North Underground Service Alert

1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis) has prepared this *Well Destruction Report* (report) on behalf of Chevron Environmental Management Company's (CEMC's) affiliate, Union Oil Company of California ("Union Oil") for the former Unocal station No. 6129 (351639) located at 3420 35th Avenue in Oakland, California (the Site; Figure 1). Well destruction activities were performed as requested in the April 25, 2018 Alameda County Department of Environmental Health (ACDEH) letter (Appendix A) as the final step prior to case closure. An extension for submittal of this report to June 15, 2018 was provided by ACDEH in an email dated May 4, 2018 (Appendix A).

This report has been prepared to summarize the closure activities at the Site in May 2018. The report is organized into the following sections:

- 1 Introduction, including a site description and background, well destruction planning and a summary of completed actions (Section 1).
- Well Destruction Scope of Work, describing pre-field activities, well destruction activities, investigation-derived waste, and necessary reporting (Section 2).
- 3 Conclusions (Section 3).
- 4 References (Section 4).

1.1 Site Description and Background

The Site is an active Chevron-branded service station located on the southern corner of the intersection of 35th Avenue and Quigley Street in Oakland, California. The site layout is shown on Figure 2.

1.2 Well Destruction Planning and Previous Activities

On January 29, 2018, ACDEH issued the directive for *Case Closure Consideration* for the Site (ACDEH, 2018a). On February 15, 2018, ACDEH issued the *Invitation to Comment – Potential Case Closure* to stakeholders (ACDEH 2018b) with the public comment period ending April 20, 2018. On April 5, 2018, ACEHD issued a request for well destruction scheduling at the Site (ACDEH 2018c). A well destruction authorization letter was issued by ACDEH on April 25, 2018 (Appendix A). Closure activities included destruction of monitoring wells MW-1 through MW-3.

1.3 Summary of Completed Actions

The three (3) monitoring wells associated with the Site (MW-1, MW-2, and MW-3) were destroyed. Well construction and destruction details are summarized in Table 1. A site plan showing the approximate well locations is provided as Figure 2. Permits, boring logs/well construction diagrams, and well completion reports are provided as Appendices B, C and D, respectively. The wells were destroyed as described in Section 2.2 and in accordance with agency guidelines.

2 WELL DESTRUCTION SCOPE OF WORK

2.1 Pre-field Activities

2.1.1 Health and Safety

Prior to initiating field activities, the site-specific Health and Safety Plan was updated in accordance with state and federal requirements for use during the proposed field activities.

2.1.2 Utility Clearance

An Underground Service Alert (USA-North) ticket was obtained on May 8, 2018 to identify any public utilities in the vicinity of the wells, more than the required 48 hours prior to well destruction activities. Ground Penetrating Radar Systems, Inc., a private third-party utility locating company, also completed a utility location survey on May 1, 2018 to additionally identify any underground utilities and other potential subsurface obstructions in the vicinity of the monitoring well destruction locations.

2.1.3 **Permitting**

Well destruction permits from Alameda County Public Works Agency (ACPWA) were obtained on May 10, 2018 (permit numbers W2018-0383 [MW-1], W2018-0384 [MW-2], and W2018-0385 [MW-3] - Appendix B).

2.1.4 Access to On-Site Well Locations

The Site property owners were sent a Notification of Closure Activities letter on April 24, 2018 pursuant to the existing access agreement.

2.2 Well Destruction Activities

On May 17, 2018, Arcadis supervised Cascade Drilling L.P. (Cascade), a State of California C-57 licensed drilling contractor, during the well destruction operations. The three monitoring wells were destroyed in accordance with ACDEH guidelines and the ACPWA permit conditions (Appendix B). Well destruction activities were performed in the presence of an ACPWA grout inspector.

2.2.1 Borehole Inspection Activities

Each well was inspected prior to destruction to determine its integrity and to confirm obstructions were not present in or around the well that would have interfered with filling and sealing.

2.2.2 Pressure Grouting Activities

Depth to groundwater and total depth measurements were initially collected using a water level indicator to confirm well construction details were accurate. Monitoring well MW-3 had an expected depth of 44 feet bgs, however the bottom was tagged at 39.5 feet bgs (Table 1). The bottom of the well felt soft and unobstructed indicating sediment had infiltrated and settled at the bottom of the well. The ACPWA inspector was onsite to confirm that pressure grouting was the appropriate method of destruction.

The volume of each well was calculated to establish a minimum volume of grout to be placed in the well. After the minimum grout volume was calculated, the well was destroyed by filling with neat cement grout using a tremie pipe. Once the well was filled, the wellhead was fit with a removable manifold and connected to an air compressor and the casing was pressurized. A pressure of approximately 25 pounds per square inch was applied at the wellhead for approximately 5 minutes. Once complete, the manifold was removed and the level of grout in the well was inspected to ensure enough grout was used. Additional grout was allowed to spill over the top of the casing to fill any annular space between casing and soil.

2.2.3 Surface Completions

The well box was removed, and concrete was used to backfill the void to surface grade at each location. The ground surface was restored to match the surrounding area.

2.3 Well Completion Reports

As required by section 13751 of the California Water Code (California Department of Water Resources [DWR] 1949), DWR Well Completion Reports were submitted to the DWR by Cascade on June 8, 2018 and copies are included in Appendix D.

2.4 Waste Disposal

Well boxes were disposed off-site by Cascade as municipal waste. No other waste was generated during well destruction activities.

3 CONCLUSIONS AND RECOMMENDATIONS

All Site wells have been destroyed as required by ACDEH and as such, all case closure requirements have been completed. All investigation, remediation and well destruction waste has been removed from the Site. We look forward to receipt of the case closure letter for the Site.

4 REFERENCES

Alameda County Department of Environmental Health (ACDEH). 2018a. Case Closure Consideration, Fuel Leak Case No. RO000058, Unocal #6129, 3420 35th Ave., Oakland, CA 94619; Geotracker ID T0600101465. January 29, 2018.

ACDEH. 2018b. Invitation to Comment – Potential case Closure, Unocal #6129, 3420 35th Ave., Oakland, California, Fuel Leak case RO0000058; Geotracker ID T0600101465. February 29, 2018.

ACDEH. 2018c. Well Destruction Scheduling, Fuel Leak Case No. RO000058, Unocal #6129, 3420 35th Ave., Oakland, CA 94619; Geotracker ID T0600101465. April 5, 2018.

Arcadis U.S. Inc. (Arcadis). 2018. Notification of Closure Activities, 3420 35th Ave., Oakland, CA 94619. April 24, 2018.

TABLE

Table 1
Well Destruction Details
Former Unocal #6129
3420 35th Avenue
Oakland, California



Well ID	Drill Date	Date Destroyed	Well Depth (feet bgs)	Well Diameter (inches)	Destruction Method
Monitoring \	Wells				
MW-1	12/12/1989	5/17/2018	43.5	2	Pressure Grout
MW-2	12/12/1989	5/17/2018	43.2	2	Pressure Grout
MW-3	12/13/1989	5/17/2018	39.5	2	Pressure Grout

Explanation

Wells are of poly-vinyl-chloride (PVC) construction

bgs = Below ground surface

FIGURES

APPENDIX A

ACDEH Correspondence

From: Nowell, Keith, Env. Health < Keith. Nowell@acgov.org>

Sent: Friday, May 4, 2018 9:49 AM

To: Szymanowski, Katherine < Katherine. Szymanowski@arcadis.com>

Cc: James Kiernan < JKiernan@chevron.com>; Edwards, Carl < Carl.Edwards@arcadis.com>; Granborg, Jennifer < Jennifer.Granborg@arcadis.com>; Khatri, Paresh, Env. Health < paresh.khatri@acgov.org>

Subject: RE: RO58 - Well Destruction Schedule

Kathy,

Your request for a report submittal extension to June 15, 2018 has been approved. ACDEH requests that the report be submitted at the earliest possible date.

Regards, Keith

Keith Nowell PG, CHG

Hazardous Materials Specialist Land Water Division Alameda County Department of Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502-6540 phone: 510 / 567 - 6764

fax: 510 / 337 - 9335

email: keith.nowell@acgov.org

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



DEPARTMENT OF ENVIRONMENTAL HEALTH LOCAL OVERSIGHT PROGRAM (LOP) FOR HAZARDOUS MATERIALS RELEASES 1131 HARBOR BAY PARKWAY ALAMEDA, CA 94502 (510) 567-6700 FAX (510) 337-9335

COLLEEN CHAWLA, Agency Director

April 25, 2018

Chevron Corporation

DBA Chevron Environmental Management Company

6001 Bollinger Canyon Road

San Ramon, CA 94583

Attn.: James Kiernan (Sent via electronic mail to:

jkiernan@chevron.com)

Son T. Nguyen

c/o Tosco Corp. 6247 Ridgemont Drive PO Box 52085 Oakland, CA 94619-3726

Phoenix, AZ 85072

ConocoPhillips

Clover Trust 1997-1

Son T. Nguyen & Le Pham Family Trust

6247 Ridgemont Drive Oakland, CA 94619-3726

76 Broadway M, E, & C Department

Unocal

Sacramento, CA 95818 PO Box 2390

Attn.: Terry Grayson Brea, CA 92622-2390

Redwood and 35th Avenue Gas Station Inc.

6247 Ridgemont Drive
Oakland, CA 94619-3726
(Sent via electronic mail to:
amylepham@yahoo.com)

Son T. Nguyen Et Al 6247 Ridgemont Drive Oakland, CA 94619-3726

Suncor Holdings COP II

11601 Wilshire Blvd., Suite 700

Los Angeles, CA 90025

Attn.: Keith Marks

Tosco

2000 Crow Canyon Place, # 400

San Ramon, CA 94583

Subject: Well Destruction Authorization, Fuel Leak Case No. RO0000058, Unocal #6129, 3420 35th

Ave., Oakland, CA 94619; GeoTracker Global ID T0600101465

Dear Responsible Parties:

Thank you for submitting the well destruction scheduling information to Alameda County Department of Environmental Health (ACDEH). We requested the confirmation of the well destruction scheduling in our letter dated April 5, 2018 and received the information via your electronic mail dated April 24, 2018. We understand destruction for all wells associated with the subject case is scheduled for May 15 through 18, 2018.

The public comment period for responses regarding the potential closure of the subject case ended on April 20, 2018. No responses regarding the potential closure were received by ACDEH. Therefore, ACDEH authorizes the well destruction.

Monitoring Well Destruction and Waste Removal Activities

Following the well destruction, please provide ACDEH 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 remaining investigation, remediation, and well destruction derived waste have been removed from the site. The State Water Board's Well Destruction and Waste Removal Requirements Fact Sheet is included as an attachment.

TECHNICAL REPORT REQUEST

Please upload technical reports to the State Water Board's GeoTracker website, in accordance with the following specified file naming convention and schedule:

June 1, 2018 – Well Destruction Report (file name: RO0000058 WELL DCM R yyyy-mm-dd)

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.

Should you have any questions, please contact me at (510) 567-6764 or send me an electronic mail message at keith.nowell@acgov.org. If your email address does not appear on the cover page of this notification ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Sincerely,

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: 2018.04.25 09:20:18 -07'00'

Keith Nowell, PG, CHG

Hazardous Materials Specialist

Keil Nowell

Enclosures: Attachment 1 - Responsible Party (ies) Legal Requirements/Obligations

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

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

Katherine Szymanowski, ARCADIS U.S., Inc., 2300 Clayton Road, Suite 400, Concord, CA 94520 (Sent via electronic mail to: Katherine.Szymanowski@arcadis.com)

Dilan Roe, ACDEH, (Sent via electronic mail to: dilan.roe@acgov.org)
Paresh Khatri, ACDEH, (Sent via electronic mail to: paresh.khatri@acgov.org)
Keith Nowell, ACDEH (Sent via electronic mail to: keith.nowell@acgov.org)

Geotracker, File

Alameda County Environmental Cleanup Oversight Programs (LOP and SCP)

REVISION DATE: December 14, 2017

ISSUE DATE: July 25, 2012

PREVIOUS REVISIONS: September 17, 2013, May

15, 2014, December 12, 2016

SUBJECT: Responsible Party(ies) Legal

Requirements / Obligations

REPORT & DELIVERABLE REQUESTS

SECTION: ACDEH Procedures

Alameda County Department of Environmental Health (ACDEH) Cleanup Oversight Programs, Local Oversight Program (LOP) and Site Cleanup Program (SCP) require submission of all reports in electronic form to the State Water Board's (SWB) GeoTracker website in accordance with California Code of Regulations, Chapter 30, Division3, Title 23 and Division 3, Title 27.

Leaking Underground Fuel Tank (LUFT) Cases

Reports and deliverable requests are 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 (RP) in conjunction with an unauthorized release from a petroleum underground storage tank (UST) system.

Site Cleanup Program (SCP) Cases

For non-petroleum UST cases, reports and deliverables requests are pursuant to California Health and Safety Code Section 101480.

ELECTRONIC SUBMITTAL OF REPORTS

A complete report submittal includes the PDF report and all associated electronic data files, including but not limited to GEO_MAP, GEO_XY, GEO_Z, GEO_BORE, GEO_WELL, and laboratory analytical data in Electronic Deliverable Format™ (EDF). Additional information on these requirements is available on the State Water Board's website (http://www.waterboards.ca.gov/water-issues/programs/ust/electronic submittal/)

- Do not upload draft reports to GeoTracker
- Rotate each page in the PDF document in the direction that will make it easiest to read on a computer monitor.

GEOTRACKER UPLOAD CERTIFICATION

Each report submittal is to include a GeoTracker Upload Summary Table with GeoTracker valid values¹ as illustrated in the example below to facilitate ACDEH review and verify compliance with GeoTracker requirements.

GeoTracker Upload Table Example

Report Title	Sampl e Period	PDF Report	GEO_ MAPS	Sample ID	Matrix	GEO _Z	GEO _XY	GEO_ BORE	GEO_WEL L	EDF
2016 Subsurface Investigation Report	2016 S1	√	√	Effluent	SO					√
2012 Site Assessment Work Plan	2012	✓	✓							
2010 GW Investigation	2008 Q4	✓	√	SB-10	W	√				✓
Report				SB-10-6	SO					✓
				MW-1	WG	√	√	✓	✓	✓
				SW-1	W	✓	√	✓	√	√

¹ GeoTracker Survey XYZ, Well Data, and Site Map Guidelines & Restrictions, CA State Water Resources Control Board, April 2005

Alameda County Environmental Cleanup Oversight Programs (LOP and SCP)

REVISION DATE: NA

ISSUE DATE: December 14, 2017

PREVIOUS REVISIONS: September 17, 2013, May

15, 2014, December 12, 2016

SUBJECT: Responsible Party(ies) Legal

Requirements / Obligations

ACKNOWLEDGEMENT STATEMENT

SECTION: ACDEH Procedures

All work plans, technical reports, or technical documents submitted to ACDEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to the State Water Board's GeoTracker website." This letter must be signed by the Responsible Party, or legally authorized representative of the Responsible Party.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6731, 6735, and 7835) 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 licensed or certified professional and include the professional registration stamp, signature, and statement of professional certification. Additional information is available on the Board of Professional Engineers, Land Surveyors, and Geologists website at: http://www.bpelsg.ca.gov/laws/index.shtml.

UNDERGROUND STORAGE TANK CLEANUP FUND

For LUFT cases, RP's non-compliance with these regulations may result in ineligibility to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse the cost of cleanup. Additional information is available on the internet at: https://www.waterboards.ca.gov/water_issues/programs/ustcf/

AGENCY OVERSIGHT

Significant delays in conducting site assessment/cleanup or report submittals may result in referral of the case to the Regional Water 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.

ATTACHMENT 2



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

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 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.

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

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/CheckLicensell/CheckLicense.aspx

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







Fact Sheet

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.)

APPENDIX B

Permits

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 05/10/2018 By jamesy Permit Numbers: W2018-0383 to W2018-0385 Permits Valid from 05/17/2018 to 05/18/2018

Application Id: 1524605851680 City of Project Site:Oakland

Site Location: 3420 35th Ave, Oakland, CA 94619, USA
Project Start Date: 05/17/2018

Completion Date:05/18/2018

Assigned Inspector: Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org

Applicant: Arcadis U.S., Inc. - Jennifer Granborg Phone: 415-915-8048

100 Smith Ranch Road, San Rafael, CA 94903

Property Owner: Son T.Nguyen Pham Le Family Trust Phone: 510-919-6298

6247 Ridgemont Drive, Oakland, CA 94619

Client: James Kiernan

Client: James Kiernan Phone: 925-842-3220 6001 Bollinger Canyon Road, San Ramon, CA 94583

Contact: Carl Edwards Phone: 415-432-6945 Cell: 415-825-0759

Total Due: \$1191.00
Total Amount Paid: \$1191.00

Receipt Number: WR2018-0236 Total Amount Paid: \$1191.00
Payer Name: Jennifer Granborg Paid By: VISA PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 3 Wells

Driller: Cascade - Lic #: 938110 - Method: tremi Work Total: \$1191.00

Specifications

Perr	nit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W20	_	05/10/2018	08/15/2018	MW-1	9.00 in.	2.00 in.	20.00 ft	44.00 ft			
W20		05/10/2018	08/15/2018	MW-2	9.00 in.	2.00 in.	20.00 ft	44.00 ft			
0384 W20		05/10/2018	08/15/2018	MW-3	9.00 in.	2.38 in.	19.00 ft	44.00 ft			
0385	5										

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.
- 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 30 days. Include permit number and site map.

Alameda County Public Works Agency - Water Resources Well Permit

- 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. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

- 9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 10. 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.

APPENDIX C

Boring Logs

			-	P. O.	D T 1	G LOG		
Project KEI-P89			Вс	ring	D8106 1310			
Project Oakland	Name	Unocal	We	-	ead El	2" levation	Date Drille	ed.
Boring 1	No.		Drilling Method			Hollow-stem Auger	Drilling Co	mpany
Penetra- tion blows/6*	G. W. level		Et)	Stra graj USC		Des	cription	
5/7/11						A.C. Pavement Clay, sand and chert boulder brown.		
5/ //11				СН		Clay, high pla sand, stiff, brown.	moist, dark	yellowish
11/15/30		10		GC/ CH		Clayey gravel, moist, dark y with gravelly plasticity, v yellowish bro	ellowish bro clay and cl ery stiff, m	wn, lensed ay, high oist, dark
18/30/48		_ 15 ·		GC		Clayey gravel very dense, s dark yellowis	lightly mois	t to wet,
18/29		_ 20 -				Color change a	t 20 feet to	dark brown.

,				во	RIN	I G LOG	
Project No KEI-P89-0			Вс	ring 9"	Logged By D.L.		
Project No Oakland -	ame 35th	Unocal Ave.	We	11 He	ead El	evation	Date Drilled 12/12/89
Boring No MW1	•			illii ethod		Hollow-stem Auger	Drilling Company EGI
Penetra-Gionblows/6"	. W. evel	Depth (Samples	ft)	Stra graj USC:		Desc	cription
16/33 19/40 26/50- 5 1/2		30		GC CH		Clayey gravel sand, very de gravel to 1".	with sand, 15-30% coarse nse, moist, dark brown, with sand, 15-20% clay, /2", very dense, moist

•••			167	ВО	RIN	G L	O G		
Project KEI-P89-	No. -0902	£:	Вс	ring 9"	& Cas	ing Dia	meter	Logged By D.L.	
Project Oakland	Name - 35th	Unocal Ave.	We	11 H	ead El	evation	Date Drilled 12/12/89		
Boring MW1	No.	4	Dr	illi	ng	Hollov Auger	v-stem	Drilling Comp	any
Penetra- tion blows/6"	G. W. level	Depth (Samples	ft)		ati- phy S		De	scription	1
				GC		Clayey	gravel	, as above.	1
		45				2			
		50	-						
•		55 							
		- 60	_				n	TOTAL DEPTH 44'	

WELL COMPLE	TION DIAGRAM
PROJECT NAME: Unocal - Oakland -	35th Avenue BORING/WELL NO. MW1
PROJECT NUMBER: KEI-P89-0902	
WELL PERMIT NO.: 89689	
Flush-mounted Well Cover	A. Total Depth: 44
riush-mounted well cover	B. Boring Diameter*: 9"
TITAL	
	Drilling Method: Hollow Stem
D G	Auger
	C. Casing Length: 44'
	Material: Schedule 40 PVC
E STATE THE	D. Casing Diameter: OD = 2.375"
	ID = 2.067"
	E. Depth to Perforations: 24'
	F. Perforated Length: 20'
	Machined Parforation Type: Slot
	Perforation Type: Slot
	Perforation Size: 0.020"
	G. Surface Seal: 20'
	Seal Material: Concrete
	H. Seal: 2'
	Seal Material: Bentonite
	I. Gravel Pack: 22' RMC Lonestar
	Pack Material: Sand
	Size: #3
	J. Bottom Seal: None
	Seal Material: N/A
D	
*Boring diameter can vary fr	om 8-1/4" to 9" depending on bit wear.

	,				во	RIN	G LOG	· · · · · · · · · · · · · · · · · · ·		
Project KEI-P89-				Во	Boring & Casing Diameter Logged By D.L.					
Project Oakland				We	11 H	ead El	levation	Date Drilled 12/12/89		
Boring N MW2	ю.				illi thod		Hollow-stem Auger	Drilling Comp	any	
Penetra- tion blows/6"	G. W. level			ft)	stra graj USC		Desc	cription		
			- 0 -		GC		brown to dark	avel with clay nse, moist, ye yellowish brow sand content	llowish n,	
10/15/16 13/36/ 50-5"			5					25-45% clay, nse, very mois wn, gravel to	t, dark	
29/39/40			10		GC/ CH		Clayey gravel, gravelly clay ————————————————————————————————————	, same.		
27/38/ 50-5"			15	+	GC		ish brown and	strong brown, t 14 feet to d	mottled.	
5 1/2			a	=======================================	70		slightly mois	with sand, ver t to moist, da avel to 1 1/2"	rk yellow-	
16/30/39		E	20				Clayey gravel, brown.	very dense, m	oist, dark	

BORING LOG										
Project	No		Ro			sing Diameter	Logged By			
KEI-P89-				9"	D.L.					
Project Oakland			We	211 H	ead El	Levation	Date Drilled 12/12/89			
Boring N MW2	io.			thod		Hollow-stem Auger	Drilling Company EGI			
Penetra- tion blows/6"	G. W. level		Et)	Stra graj USC:		Desc	cription			
30/50				GC		dense, moist,	to gravelly clay, very dark brown, clay is ty, very stiff.			
25/34/ 50-6"		- 25 - - - - -		GW- GC 		25-35% coarse moist, dark b Sandy clay, hi	gh plasticity, 5-10%			
15/20/33		E	E	GC	0.20	to dark reddi	iff, moist, dark brown sh brown. with sand, gravel to 1", very dense, moist, dark			
16/22/35		30				brown.				
13/24/48	_	E								
27/37/40 40/25/34	▼	35		GW- GC		well graded gr gravel to 2".	avel with clay and sand,			
e							gh plasticity, with			
19/22/32		40	\perp	СН		gravel, very 15-30% gravel	stiff, moist, dark brown to 5/8".			

				во	RIN	G LOG	
Project KEI-P89-			Вс	ring 9"	Logged By D.L.		
Project Oakland	Name - 35th	Unocal Ave.	We	211 H	ead El	evation	Date Drilled 12/12/89
Boring N MW2	io.	•		illi ethod		Hollow-stem Auger	Drilling Company EGI
Penetra- tion blows/6"	G. W. level	Depth (Samples	ft)	Str gra USC		De	escription
17/24/25			-	СН		Sandy clay as	above.
11/24/20						Gravelly clay sand, very s gravel to 5	, high plasticity, with stiff, moist, dark brown, /8".
ŧ		45					
		50					
			_				
			-				
		- 55 - -					
		60	_]	ľ		TOTAL DEPTH 44'

1	
WELL COMPLE	TION DIAGRAM
PROJECT NAME: Unocal - Oakland -	35th Avenue BORING/WELL NO. MW2
PROJECT NUMBER: KEI-P89-0902	
WELL PERMIT NO.: 89689	
Flush-mounted Well Cover	A. Total Depth: 44'
TIMES	B. Boring Diameter*: 9"
	Drilling Method: Hollow Stem
	Auger
D G	C. Casing Length: 44'
	Material: Schedule 40 PVC
H H	D. Casing Diameter: OD = 2.375"
E DE	ID = 2.067"
	E. Depth to Perforations: 24'
	F. Perforated Length: 201
A	Machined
	Perforation Type: Slot
	Perforation Size: 0.020"
	G. Surface Seal: 20'
	Seal Material: Concrete
	H. Seal: 2'
F	Seal Material: Bentonite
	I. Gravel Pack: 22'
	RMC Lonestar Pack Material: Sand
	Size:#3
	J. Bottom Seal: None
	Seal Material: N/A
В——В	
*Boring diameter can vary fr	com 8-1/4" to 9" depending on bit wear.

			Asa Mada	во	RIN	IG LOG						
Project KEI-P89-		· · · · · · · · · · · · · · · · · · ·	Вс	oring	Logged By No. 130							
Project Oakland			We	ell He	ead El	levation	Date Drilled 12/13/89					
Boring N	No.	= •		rilli		Hollow-stem Auger	Drilling Company EGI					
Penetra- tion blows/6*	G. W. level			stra graj USC		Description						
		0				A.C. Pavement Gravel, sand and disturbed national brown.	nd clay: fill and ive soil, dark yellowish					
11/12 8/21/36				GC		Clayey gravel very moist to	e recovery first attempt. gravel with sand, very dense, pist to wet, olive, dark yel- brown below 6 feet.					
13/29		 				gravel to 1 1	with sand, 25-35% clay, /2", very dense, moist, h brown, clay is high					
16/30/ 50-5 1/2				СН	0 3 4	sand, very st	high plasticity, with iff to hard, moist, dark yellowish brown, mot-					
26/34		20		GC		with clay san very dense, m	with sand, lensed with ad with gravel to 3/8", noist, dark brown, 15% out, gravel to 1".					

		E2 20	во	RIN	G LOG					
Project No KEI-P89-09		Во	ring 9"	& Cas	ing Diameter 2"	Logged By D.L.				
Project Na Oakland -	me Unoc		ell He	ad El N/A	evation	Date Drilled 12/13/89				
Boring No.			illin thod	g	Hollow-stem Auger	Drilling Company EGI				
Penetra-G. tion blows/6"	W. Dept	h (ft) les	Stra grap USCS	hy	Description					
19/33 8/8/12 40/50/50 43/50-5"	▼	35	GC CH		Sandy clay, his stiff, moist, Gravelly clay, sand, dense, restrong brown to strong brown to st	ed clayey gravel and , very dense, very				

				во	RII	G LOG					
Project KEI-P89		В	oring 9"	& Cas	sing Diameter	Logged By D.L.					
Project Oakland	Unocal h Ave.	We	ell He	ead E	levation	Date Drilled 12/13/89					
Boring 1		Drilling Method			Hollow-stem Auger	Drilling Comp EGI	any				
Penetra- tion blows/6"	G. W. level		ft)	Stra grap USCS	ati- ohy	Des	cription				
				GC/ CH		Undifferentiat gravelly clay	ed clayey grave , as above.	l and			
		50									
		60				TO	TAL DEPTH 44'				

- N		
WELL COMPLETI	O N	DIAGRAM
PROJECT NAME: Unocal - Oakland - 35th	Aven	ue BORING/WELL NO. MW3
PROJECT NUMBER: KEI-P89-0902		
WELL PERMIT NO.: 89689		
WEED PERMIT NOV.		
Flush-mounted Well Cover	A.	Total Depth: 44'
THERE	В.	Boring Diameter*: 9"
		Drilling Method: Hollow Stem
		Auger
	c.	Casing Length: 43
		Material: Schedule 40 PVC
H H	D.	Casing Diameter: OD = 2.375"
		ID = 2.067"
	Ε.	Depth to Perforations: 23'
	F.	Perforated Length: 20'
A		Machined
		Perforation Type: Slot
		Perforation Size: 0.020"
	G.	Surface Seal: 19'
		Seal Material: Concrete
	н.	Seal: 2'
		Seal Material: Bentonite
	ı.	
		RMC Lonestar Pack Material: Sand
		Size:#3
	σ.	Bottom Seal: None
		Seal Material: N/A
В		i i
*Boring diameter can vary from 8-	1/4"	to 9" depending on bit wear.

APPENDIX D

Well Completion Reports

*The free	The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form.															
File Original with DWR State of Ca															Not Fill In	
Page 1		of	1			VV	ell Co	mpleti r to Instruction	on Rep	oort		1 .	II.	ا ا		
Owner's	Well Num	nber <u>I</u>	MW-	-1		-	No.	e036778					e Well Nu	umber/Si	ite Number	
				018		e Work End	led <u>5/17</u>	<u>7/2018</u>				Latitude			Longitude	
				eda County 83			18		APN/TRS/Other						her	
				Manufacture of the second	gic Log		***************************************			Well Own	er (confid	ential pu	ursuant	to CA	Water Code 13752)	
Ori	entation	⊙ ∨	ertica		rizontal	OAngle	Specif	fy			Environn					
	Drilling Method Vac Drilling Fluid								- Mailin	a Address	6101 Bol	linger C	anyon	Road		
Depth Feet	Depth from Surface Description Feet to Feet Describe material, grain size, color, etc									City San Ramon State CA zip 94583						
0	_113	13.50		out to destr							THE THE THE THE		ocatio			
				25 psi. Com					Addre	ss 3420	35th Ave.				A ST. SHIP THE THE THE PARTY	
City Oakland Cou											ounty A	lameda				
															122 202 4515 W Deq. Min. Sec.	
]	Deq.	Min. Dec. Lat	Sec.			Deq. Min. Sec.	
			_								Page					
									Towns	The state of the s	Range	COLUMN TWO IS NOT THE		_ Secti		
			<u> </u>						(Sket		ation Ske			ON	Activity lew Well	
			<u> </u>								North		11		lew vveil lodification/Repair	
			├						-11						O Deepen	
									-					(O D	Other	
									-					U D	Describe procedures and materials under "GEOLOGIC LOG"	
	-						-		-						Planned Uses	
	-								-					OW	Vater Supply	
									 	200	21:0	Dia	A #		Domestic Public	
	_								West	OLE	site	110	E E		Irrigation Industrial	
	_								11						Cathodic Protection	
									11						ewatering leat Exchange	
									11						njection	
									11						Monitoring	
									11						Remediation	
									11						Sparging	
									1		South			O Test Well O Vapor Extraction O Other		
							I.Y				ce of well from roop. Use additional omplete.					
												A STREET OF STREET	TOO WHOLE			
											nd Yield o				-t balancaurface)	
									Depth	Depth to first water(Feet below surface) Depth to Static Water Level 30.9 (Feet) Date Measured 511118						
									Water	Level _	30.9	(Feet) Date	Measu	ured 5117118	
Total D	epth of Bo	oring		-			_ Feet		Estimated Yield * (GPM) Test Type							
Total D	epth of Co	omple	ted V	Nell			_ Feet		Test Length (Hours) Total Drawdown (Feet) *May not be representative of a well's long term yield.							
			V. The		Cas	ingo			Iviay .	lor pe repr	esenianvo	Ora won	Annul			
Depti	n from	Boreh	nole	-	2000 000	sings	Wall	Outside	Screen	Slot Siz	e Depti	n from	Ailliui	al Ivia	teriai	
Sur	face	Diame	eter	Type	Mate	- 1	Thickness	Diameter	Туре	if Any	Sur	face	Fi	Ш	Description	
Feet	to Feet	(Inche	es)				(Inches)	(Inches)		(Inches) Feet	to Feet	-			
			_								_					
											<u> </u>					
		Attac	hme	ents	e j			% e			ation Stat					
	Geologic I		_	•				d, certify that Drilling, L		ort is comp	lete and ac	curate to	the bes	t of my	knowledge and belief	
	Well Cons			iagram			Person, F	Firm or Corpor	ation	10/						
☐ Geophysical Log(s) ☐ Soil/Water Chemical Analyses ☐ Geophysical Log(s) ☐ Soil/Water Chemical Analyses ☐ Geophysical Log(s) ☐ West Sacramento ☐ CA ☐ 95691 ☐ State ☐ Zip									25691 Zip							
	Other Sit					Signed	1	Jul	Uf	16		6/8/		938110		
Attach add	itional inform	ation, if	it exist	ts.	,	4	C-57 Lie	ensed Water V	Vell Contrasto			Date Sig	ned C	:-57 Lic	cense Number	

			ew and complete	this form. However,			ed to compl	ete, save,	and reuse	e a saved	form.		
File Origi	nal with DW	R			tate of Calif		. [DW	/R Use Or	nly – Do	Not Fill In	
Page 1		f <u>1</u>		Well Co	mpletion r to Instruction	on Repo	ort		01-1	La Maril Ni			
	Well Numbe			No	e036778				Stat	te Well Nu	imber/Si	ite Number	
				Work Ended 5/17	7/2018				Latitude			Longitude	
	rmit Agency umber <u>W20</u>	Alameda Cou 18-0384		orks ate <u>5/10/18</u>			[APN/	TRS/Oth	her	
Citilien	urneer <u></u>		logic Log			T W	ell Owne	r (confid	ential n	ursuant	to CA	Water Code 13752)	
Orie	entation ©		lorizontal	OAngle Speci	ify	_	Chevron E						
	Method Vac			Drilling Fluid			Address 6					Jonny	
Depth	from Surfac	e D	Describe material	cription grain size, color, etc								Zip 94583	
0	43.2			and pressurize fo						ocatio			
				urface with concr		Address	3420 35	th Ave.			1736203853	NAME OF THE PARTY	
			y 82 5			1 1	kland			Co	unty_A	lameda	
												122 202 3385 W Deg. Min. Sec.	
						1 5.4	Deq.	Min.	Sec.			Deg. Min. Sec. Long.	
							ok <u>030</u>						
	_					TOWNSHI	p	ion Ske	CONTRACTOR DESIGNATION		. Secu	THE RESERVE OF THE PARTY OF THE	
		_				(Sketch r	nust be drawn	by hand aft		orinted.)	ON	Activity lew Well	
						-	-	North	********		ŎΜ	lodification/Repair	
						11						O Deepen O Other	
						11					0 D	estroy	
						11					<u>_</u>	Describe procedures and materials ander "GEOLOGIC LOG"	
												Planned Uses	
]						Vater Supply Domestic ☐ Public	
								· Le T	21.	ast		Irrigation Industrial	
]] > 0	ee 5	ite 1	IUV)		athodic Protection	
						41						ewatering	
	-					-11						leat Exchange	
		_										njection Ionitoring	
	_					South Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary.						emediation	
			***								Os	parging	
											O Test Well O Vapor Extraction O Other		
						Water Level and Yield of Completed Well							
						Depth to first water (Feet below surface) Depth to Static Water Level (Feet) Date Measured [Signature of the content of t							
						Water Le	evel 2	1.6	(Feet	t) Date	Measu	ired <u>5/11/18</u>	
Total D	epth of Borin	9		Feet		Estimated Yield * (GPM) Test Type							
Total D	epth of Comp	oleted Well		Feet		Test Length(Hours) Total Drawdown(Feet) *May not be representative of a well's long term yield.						Company of the contract of the	
danta engler			Casi	nge		Way not	be repres	entative (or a well	Annul	The state of the state of		
Depth		ehole Type	Materi	ial Wall	Outside	Screen	Slot Size		from	1000			
Surf Feet t		meter 'ye' ches)	Materi	Thickness (Inches)	(Inches)	Type	if Any (Inches)		face o Feet	Fi	A .	Description	
				(
	Δ++	achments					ertificati	on State	ment				
	Geologic Log			I, the undersigned	I, certify that					the bes	t of my	knowledge and belief	
	Well Constru	ction Diagram		Name Cascade		P.							
	Geophysical			3000 Duluth St	treet	auOII	Wes	t Sacran	nento		<u> </u>		
	Soil/Water Ch Other <u>Site r</u>	nemical Analyses	i	Signed	Address	1.(1)	18	City	6/2		tate 938110	Zip	
	tional information				ensed Water W	/ell Contractor			Date Sig			ense Number	

*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In Well Completion Report _ of 1 Page 1 Refer to Instruction Pamphlet State Well Number/Site Number Owner's Well Number MW-3 No. e0367786 | N Date Work Began 05/17/2018 Date Work Ended <u>5/17/2018</u> Longitude Local Permit Agency Alameda County Public Works APN/TRS/Other Permit Number W2018-0385 Permit Date <u>5/1</u>0/18 Geologic Log Well Owner (confidential pursuant to CA Water Code 13752) O Horizontal OAngle Specify Name Chevron Environmental Management Company Drilling Method Vac Drilling Fluid Mailing Address 6101 Bollinger Canyon Road Depth from Surface Description City San Ramon 94583 Describe material, grain size, color, etc Feet Feet 0 **39.5** Grout to destroy 2" well and pressurize for 5 min **Well Location** at 25 psi. Complete to surface with concrete Address 3420 35th Ave County Alameda City Oakland 792 327 Latitude <u>37</u> N Longitude _-122 __202 Deg. Datum NAD83 Dec. Long. Dec. Lat. APN Book 030 _ Parcel <u>001</u> ___ Page <u>1980</u> Township . Range. Section **Location Sketch** Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen O Other_ Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐ Domestic ☐ Public § See site Plan ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation O Sparging O Test Well O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences rivers, etc. and attach a map. Use additional paper if necessary. O Other Water Level and Yield of Completed Well __ (Feet below surface) Depth to first water _ Depth to Static Water Level 28.1 (Feet) Date Measured 5/17/18 Total Depth of Boring Feet Estimated Yield * _____ _(GPM) Test Type _ Test Length _ (Hours) Total Drawdown Total Depth of Completed Well Feet *May not be representative of a well's long term yield. **Annular Material** Casings Depth from Slot Size Depth from Borehole Wall Outside Screen Material Surface Thickness Diameter if Any Fill Diameter Surface Description Type Feet to Feet (Inches) Feet to Feet (Inches) (Inches) (Inches) **Certification Statement** Attachments I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief ☐ Geologic Log Name Cascade Drilling, L.P. Well Construction Diagram Person, Firm or Corporation ☐ Geophysical Log(s) 3000 Duluth Street ☐ Soil/Water Chemical Analyses State 938110 ☑ Other Site map C-57 Licensed Water Well Contractor Attach additional information, if it exists. C-57 License Number



Arcadis U.S., Inc.

100 Montgomery Street Suite 300 San Francisco California 94104 Tel 415 374 2744

Fax 415 374 2745

www.arcadis.com

GeoTracker ESI Page 1 of 1

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_REPORT FILE

SUCCESS

Your GEO_REPORT file has been successfully submitted!

<u>Submittal Type:</u> GEO_REPORT

Report Title: Well Destruction Report 06/12/2018

Report Type: Well Destruction Report

<u>Report Date:</u> 6/12/2018

Facility Global ID: T0600101465

Facility Name: UNOCAL #6129

File Name: 351639 180612 76PP - Well

Destruction Report.pdf

Organization

Name:

ARCADIS

<u>Username:</u> ARCADIS76

<u>IP Address:</u> 199.19.248.57

<u>Submittal</u>

6/12/2018 4:40:03 PM

<u>Date/Time:</u>

Confirmation 4232190072

Number:

Copyright © 2018 State of California