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ARCADIS U.S., Inc.
100 Montgomery Street, Suite 300
San Francisco, CA 94104
Tel 415.374.2744
Fax 415.374.2745
www.arcadis-us.com

Well Destruction Report

Former BP Station No. 11133
2220 98th Avenue, Oakland, California
ACEH Case #RO0000403

ENVIRONMENT

“I declare that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.”

Date:
August 30, 2013

Submitted by:

Contact:
Hollis E. Phillips

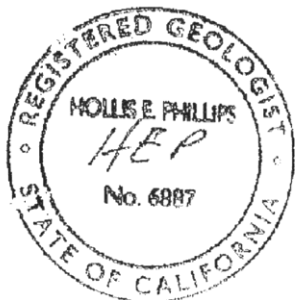
ARCADIS U.S., Inc

Phone:
415 432.6903

Email:
Hollis.phillips@arcadis-us.com

Hollis E. Phillips, PG
Project Manager

Our ref:
GP09BPNA.C107



Imagine the result

State Water Resources Control Board
UST Closures
1001 I Street
Sacramento, CA 95814

Subject:

Well Destruction Report

Former BP Station No. 11133
2220 98th Avenue
Oakland, California
ACEH Case No. RO0000403

To Whom It May Concern:

On behalf of BP West Coast Products, LLC (BP West), ARCADIS U.S., Inc. (ARCADIS) is pleased to submit this Well Destruction Report which documents the destruction of 26 wells (12 groundwater monitoring wells, five remediation wells, and nine vapor extraction wells,) at the Former British Petroleum (BP) Station No. 11133 (site) located at 2220 98th Avenue, Oakland, California (**Figure 1**).

Destruction of the site wells was requested in the *UST Case Closure Review Summary Report* Submitted to Alameda County Environmental Health Department (ACEH) on December 16, 2012. The Site was petitioned to the State Water Resources Control Board for closure and closure was approved in *Order WQ 2013-0004-UST*, dated March 14, 2013 (**Attachment A**).

Prior to conducting the field activities, ARCADIS obtained well destruction permits W2013-0556 through W2013-0568 from the Alameda County Public Works Agency (ACPWA) for wells AW-1 through AW-9, IW-1, IW-2, IW-3, MW-1, MW-2, MW-3, OW-1, RW-1, VEW-4 through VEW-9, VW-1, VW-2, and VW-3 (**Figure 2**). Additionally, ARCADIS obtained encroachment permits X1302159, X1302160, X1302161, and X1302167 from the City of Oakland (City) for destruction of wells AW-2, AW-3, AW-4, AW-7, AW-8, AW-9, and VEW-9. Copies of the permits are included as **Attachment B**.

ARCADIS contracted National Exploration, Wells, & Pumps (National) of Richmond, California to destroy the wells. National is a California-licensed drilling contractor (C57 License No.953646). Traffic control was provided by Statewide during the destruction of the off-site well locations (AW-2, AW-3, AW-4, AW-7, AW-8, AW-9, and VEW-9). The monitoring wells were destroyed from August 19 through August 22, 2013.

Monitoring well AW-7 was not located during the well destruction activities. Survey data could not be located in historical documents. Additionally historical records were reviewed for well destruction information however none were found. ARCADIS

ARCADIS U.S., Inc.
100 Montgomery Street
Suite 300
San Francisco
California 94104
Tel 415.374.2744
Fax 415.374.2745
www.arcadis-us.com

ENVIRONMENTAL

Date:
August 30, 2013

Contact:
Hollis E. Phillips

Phone:
415.432.6903

Email:
hollis.phillips@arcadis-us.com

Our ref:
GP09BPNA.C107

attempted to locate the well using a magnetometer, however that effort yielded no results. The well has not been accessed for approximately eleven years. ARCADIS has exhausted all avenues to attempt to locate the well and considers it either previously abandoned or abandoned in place.

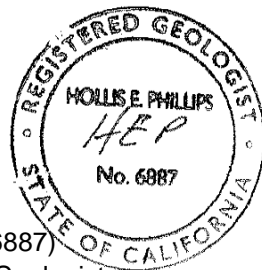
Mr. Steve Miller from the ACPWA provided inspection and oversight of the well destruction activities. The wells were destroyed in accordance with ACPWA permit requirements. Neat cement grout was placed in each well from the bottom of the well to ground surface and placed under 25 pounds per square inch (psi) of pressure for 5 minutes under the direct supervision of the ACPW inspector. All well boxes were removed. The on-site well vaults were left in place; lids removed and filled in with neat cement grout. The wells were completed to match the surrounding ground surface conditions.

Table 1 provides well destruction details. Copies of the Well Completion Reports submitted to the Department of Water Resources are included in **Attachment C**.

With the completion of the above mentioned well destruction activities, ARCADIS does not believe that there are any remaining issues associated with ACEH Case No. RO0000403; therefore, this site should be considered closed with regard to the previous environmental issues associated with this site. If you have any questions or need additional information regarding this site please contact Hollis Phillips at 415.432.6903. Thank you for your assistance with closing Former BP Station No. 11133.

Sincerely,

ARCADIS U.S., Inc.



Hollis E. Phillips, PG (No. 6887)
Project Manager/Principal Geologist

Attachments

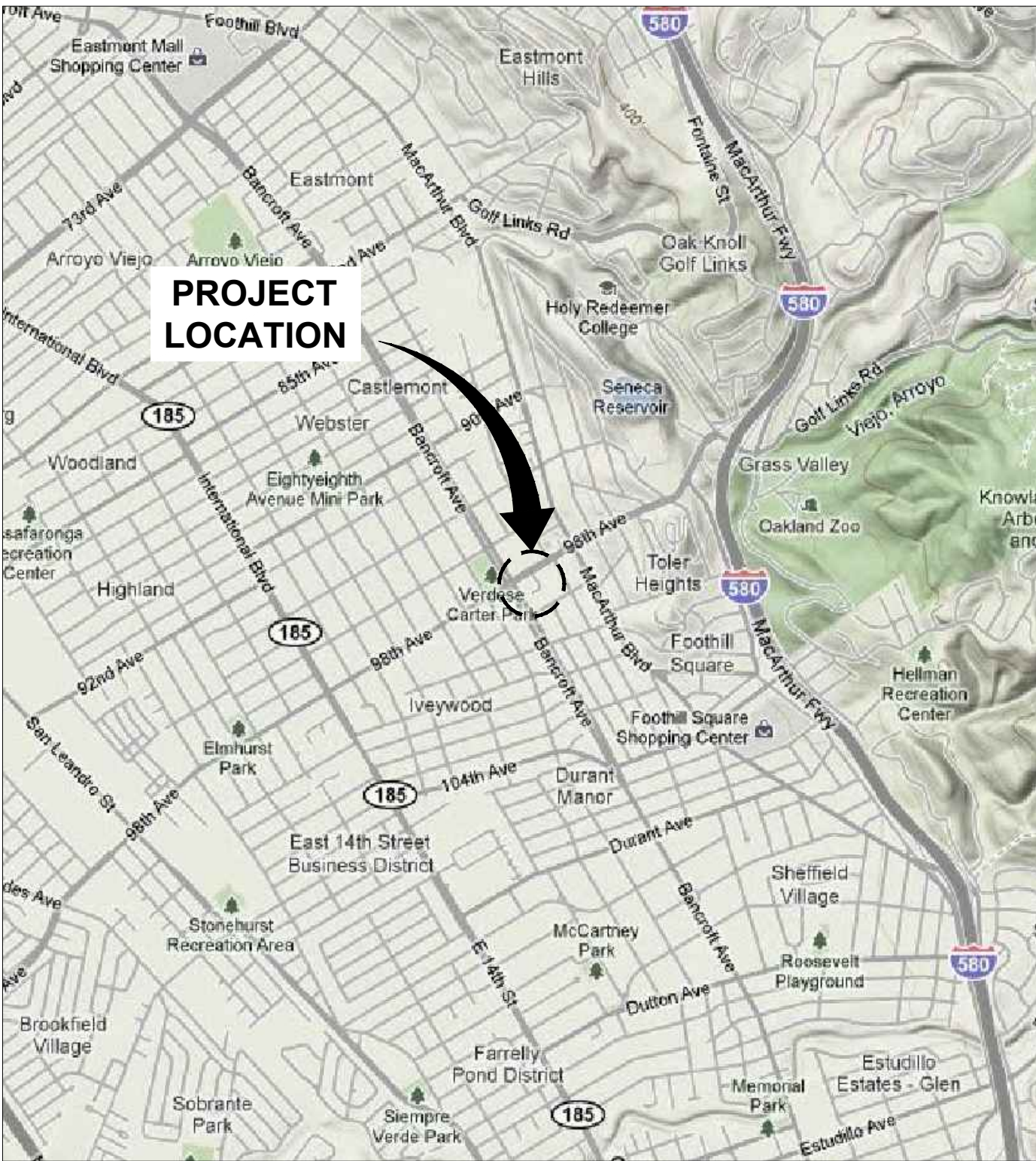
- Figure 1 – Site Location Map
- Figure 2 – Site Plan
- Table 1 – Neat Cement Grout Estimated Volumes
- Attachment A – Order - WQ – 2013-004 - UST
- Attachment B – Well Destruction Permits
- Attachment C – Well Completion Reports

Copies:

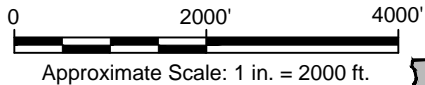
Geotracker upload/ACEH upload

Figures

CITY: EMERYVILLE, CA DIV: GROUP: ENVCAD DB: A. REYES, J. HARRIS LAYOUT: 1 SAVED: 9/30/2013 2:15 PM ACADVER: 18.1.5 (LMS TECH) PAGES: 1 PLOT: 1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 9/30/2013 2:17 PM BY: HARRIS, JESSICA
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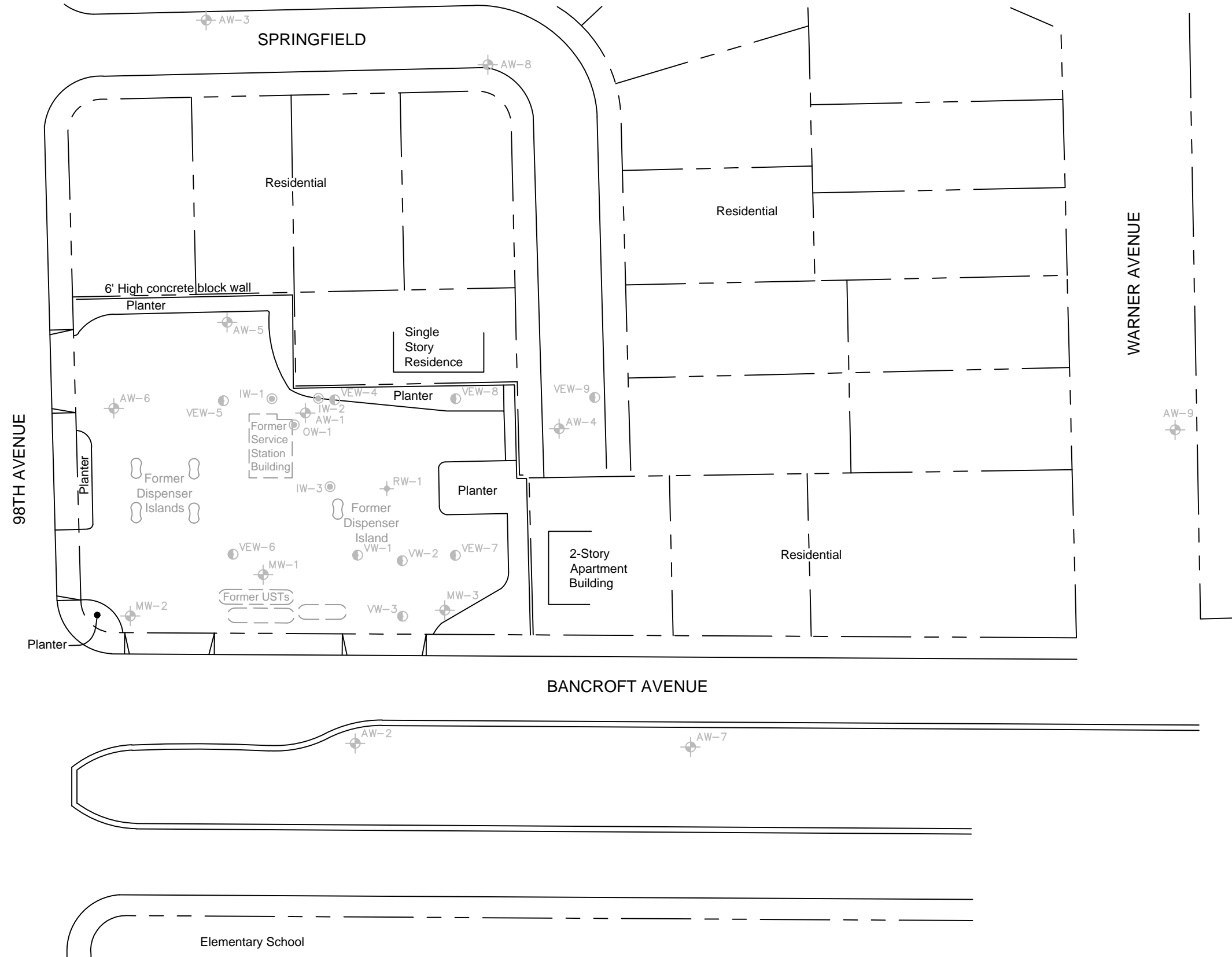
FORMER BP SERVICE STATION #11133
 2200 98TH AVENUE
 OAKLAND, CALIFORNIA

SITE LOCATION MAP







FIGURE
1

CITY: EMERYVILLE, CA DIV/GROUP: ENV/CAD DB: A. REYES, J. HARRIS
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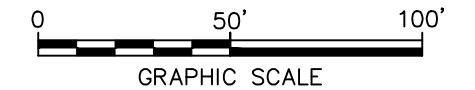


LEGEND:

-  ABANDONED INJECTION WELL LOCATION
-  ABANDONED MONITORING WELL LOCATION
-  ABANDONED VAPOR EXTRACTION WELL LOCATION
-  ABANDONED COMBINED GROUNDWATER RECOVERY/VAPOR EXTRACTION WELL LOCATION

NOTES:

1. BASE MAP ADAPTED FROM A DRAWING BY BROADBENT & ASSOCIATES, INC., TITLED " SITE MAP WITH PROPOSED INJECTION WELL LOCATION", DATED 5/8/09, @ A SCALE OF 1" = 60'.
2. ALL LOCATIONS ARE APPROXIMATE.



FORMER BP SERVICE STATION #11133
 2200 98TH AVENUE
 OAKLAND, CALIFORNIA

SITE MAP





Table

Table 1
Neat Cement Grout Estimated Volumes
CA-11133
2220 98th Avenue, Oakland, California , CA

| Well ID | Total Depth (feet btoc) | Casing Diameter (inches) | Boring Diameter (inches) | Neat Cement Grout Estimated Volume (gallons) | Neat Cement Grout Actual Volume (gallons) | Vault (Y/N) | Completion Type | Notes |
|---------|-------------------------|--------------------------|--------------------------|----------------------------------------------|-------------------------------------------|-------------|------------------|-------------------|
| AW-1 | 38.5 | 2 | 10 | 8.16 | 30 | N | concrete | |
| AW-2 | 35 | 2 | 10 | 7.42 | 30 | N | dirt | Landscaped island |
| AW-3 | 37 | 2 | 10 | 7.84 | 22 | N | conc. dyed black | On road |
| AW-4 | 33 | 2 | 10 | 6.99 | 20 | N | conc. dyed black | On road |
| AW-5 | 43 | 4 | 10 | 36.45 | 55 | N | conc. dyed black | |
| AW-6 | 35 | 4 | 10 | 29.67 | 45 | N | concrete | |
| AW-7 | - | - | - | - | - | - | - | Presumed ABN |
| AW-8 | 43 | 2 | 8 | 9.11 | 20 | N | conc. dyed black | On road |
| AW-9 | 29 | 2 | 8 | 6.15 | 20 | N | conc. dyed black | On road |
| IW-1 | 40 | 4 | 10 | 33.90 | 50 | N | conc. dyed black | |
| IW-2 | 40 | 4 | 10 | 33.90 | 80 | N | conc. dyed black | |
| IW-3 | 40 | 4 | 10 | 33.90 | 45 | N | concrete | |
| MW-1 | 29 | 2 | 8 | 6.15 | 20 | N | dirt | |
| MW-2 | 32 | 2 | 8 | 6.78 | 20 | N | conc. dyed black | |
| MW-3 | 35 | 2 | 8 | 7.42 | 20 | N | conc. dyed black | |
| OW-1 | 40 | 2 | 8 | 8.48 | 25 | N | concrete | |
| RW-1 | 37.5 | 6 | 12 | 71.57 | 90 | Y | grout | |
| VEW-4 | 19 | 4 | 10 | 16.10 | 30 | Y | grout | |
| VEW-5 | 11 | 4 | 10 | 9.32 | 15 | Y | dirt | |
| VEW-6 | 19.5 | 4 | 10 | 16.53 | 35 | Y | grout | |
| VEW-7 | 16 | 4 | 10 | 13.56 | 40 | Y | grout | |
| VEW-8 | 17 | 4 | 10 | 14.41 | 35 | Y | grout | |
| VEW-9 | 15 | 4 | 12 | 12.71 | 18 | N | conc. dyed black | On road |
| VW-1 | 13 | 4 | 12 | 11.02 | 35 | Y | grout | |
| VW-2 | 18 | 4 | 12 | 15.26 | 20 | Y | grout | |
| VW-3 | 16 | 4 | 12 | 13.56 | 15 | Y | grout | |



Attachment A

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

ORDER WQ 2013-0004-UST

In the Matter of Underground Storage Tank Case Closure

**Pursuant to Health and Safety Code Section 25299.39.2 and the Low Threat
Underground Storage Tank Case Closure Policy**

BY THE EXECUTIVE DIRECTOR¹:

Pursuant to Health and Safety Code section 25299.39.2, the Manager of the Underground Storage Tank Cleanup Fund (Fund) recommends closure of the underground storage tank (UST) case at the site listed below.² The name of the Fund claimant, the Fund claim number, the site name and the applicable site address are as follows:

BP Products North America, Inc.

Claim No. 5502

BP 11133

2220 98th Avenue, Oakland

I. STATUTORY AND PROCEDURAL BACKGROUND

Section 25299.39.2 directs the Fund manager to review the case history of claims that have been active for five years or more (five-year review), unless there is an objection from the UST owner or operator. This section further authorizes the Fund Manager to make recommendations to the State Water Resources Control Board (State Water Board) for closure of a five-year-review case if the UST owner or operator approves. In response to a recommendation by the Fund Manager, the State Water Board, or in certain cases the State Water Board Executive Director, may close a case or require the closure of a UST case.

Closure of a UST case is appropriate where the corrective action ensures the protection of human health, safety, and the environment and where the corrective action is consistent with:

1) Chapter 6.7 of Division 20 of the Health and Safety Code and implementing regulations;

¹ State Water Board Resolution No. 2012-0061 delegates to the Executive Director the authority to close or require the closure of any UST case if the case meets the criteria found in the State Water Board's Low Threat Underground Storage Tank Case Closure Policy adopted by State Water Board Resolution No. 2012-0016.

² Unless otherwise noted, all references are to the Health and Safety Code.

2) Any applicable waste discharge requirements or other orders issued pursuant to Division 7 of the Water Code; 3) All applicable state policies for water quality control; and 4) All applicable water quality control plans.

The Fund Manager has completed a five-year review of the UST case identified above, and recommends that this case be closed. The recommendation is based upon the facts and circumstances of this particular UST case. A UST Case Closure Review Summary Report has been prepared for the case identified above and the bases for determining compliance with the Water Quality Control Policy for Low-Threat Underground Storage Tank Case Closures (Low-Threat Closure Policy or Policy) are explained in the Case Closure Review Summary Report.

A. Low-Threat Closure Policy

In State Water Board Resolution No. 2012-0016, the State Water Board adopted the Low Threat Closure Policy. The Policy became effective on August 17, 2012. The Policy establishes consistent statewide case closure criteria for certain low-threat petroleum UST sites. In the absence of unique attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents, cases that meet the general and media-specific criteria in the Low-Threat Closure Policy pose a low threat to human health, safety and the environment and are appropriate for closure under Health and Safety Code section 25296.10. The Policy provides that if a regulatory agency determines that a case meets the general and media-specific criteria of the Policy, then the regulatory agency shall notify responsible parties and other specified interested persons that the case is eligible for case closure. Unless the regulatory agency revises its determination based on comments received on the proposed case closure, the Policy provides that the agency shall issue a closure letter as specified in Health and Safety Code section 25296.10. The closure letter may only be issued after the expiration of the 60-day comment period, proper destruction or maintenance of monitoring wells or borings, and removal of waste associated with investigation and remediation of the site.

Health and Safety Code section 25299.57, subdivision (l)(1) provides that claims for reimbursement of corrective action costs that are received by the Fund more than 365 days after the date of a closure letter or a Letter of Commitment, whichever occurs later, shall not be reimbursed unless specified conditions are satisfied. A Letter of Commitment has already been issued on the claim subject to this order and the respective Fund claimant, so the 365-day timeframe for the submittal of claims for corrective action costs will start upon the issuance of the closure letter.

II. FINDINGS

Based upon the UST Case Closure Review Summary Report prepared for the case attached hereto as Exhibit A, the State Water Board finds that corrective action taken to address the unauthorized release of petroleum at the UST release site identified as:

Claim No. 5502

BP 11133

ensures protection of human health, safety and the environment and is consistent with Chapter 6.7 of Division 20 of the Health and Safety Code and implementing regulations, the Low-Threat Closure Policy and other water quality control policies and applicable water quality control plans.

Pursuant to the Low-Threat Closure Policy, notification has been provided to all entities that are required to receive notice of the proposed case closure, a 60-day comment period has been provided to notified parties, and any comments received have been considered by the Board in determining that the case should be closed.

The UST case identified above may be the subject of orders issued by the Regional Water Quality Control Water Board (Regional Water Board) pursuant to Division 7 of the Water Code. Any orders that have been issued by the Regional Water Board pursuant to Division 7 of the Water Code, or directives issued by a Local Oversight Program agency for this case should be rescinded to the extent they are inconsistent with this Order.

III. ORDER

IT IS THEREFORE ORDERED that:

- A. The UST case identified in Section II of this Order, meeting the general and media-specific criteria established in the Low-Threat Closure Policy, be closed in accordance with the following conditions and after the following actions are complete. Prior to the issuance of a closure letter, the Fund claimant is ordered to:

1. Properly destroy monitoring wells and borings unless the owner of real property on which the well or boring is located certifies that the wells or borings will be maintained in accordance with local or state requirements;

2. Properly remove from the site and manage all waste piles, drums, debris, and other investigation and remediation derived materials in accordance with local or state requirements; and

3. Within six months of the date of this Order, submit documentation to the regulatory agency overseeing the UST case identified in section II of this Order that the tasks in subparagraphs (1) and (2) have been completed.

- B. The tasks in subparagraphs (1) and (2) of Paragraph (A) are ordered pursuant to Health and Safety Code section 25296.10 and failure to comply with these requirements may result in the imposition of civil penalties pursuant to Health and Safety Code section 25299 subdivision (d)(1). Penalties may be imposed administratively by the State Water Board or Regional Water Board.
- C. Within 30 days of receipt of proper documentation from the Fund claimant that requirements in subparagraphs (1) and (2) of Paragraph (A) are complete, the regulatory agency that is responsible for oversight of the UST case identified in Section II of this Order shall notify the State Water Board that the tasks have been satisfactorily completed.
- D. Within 30 days of notification from the regulatory agency that the tasks are complete pursuant to Paragraph (C), the Deputy Director of the Division of Financial Assistance shall issue a closure letter consistent with Health and Safety Code, section 25296.10, subdivision (g) and upload the closure letter and UST Case Closure Review Summary Report to GeoTracker.
- E. As specified in Health and Safety Code section 25299.39.2 subdivision (a) (2), corrective action costs incurred after a recommendation of closure shall be limited to \$10,000 per year unless the Board or its delegated representative agrees that corrective action in excess of that amount is necessary to meet closure requirements, or additional corrective actions are necessary pursuant to section 25296.10 subdivision (a) and (b). Pursuant to section 25299.57, subdivision (l) (1), and except in specified circumstances, all claims for reimbursement of corrective action costs must be received by the Fund within 365 days of issuance of the closure letter in order for the costs to be considered.

F. Any Regional Water Board or Local Oversight Program Agency directive or order that directs corrective action or other action inconsistent with case closure for the UST case identified in Section II is rescinded, but only to the extent the Regional Water Board order or Local Oversight Program Agency directive is inconsistent with this Order.

Thomas Howard

Executive Director

3/14/13

Date

EXHIBIT A



State Water Resources Control Board

UST CASE CLOSURE REVIEW SUMMARY REPORT

Agency Information

Table with 2 columns: Agency Name and Address. Agency Name: Alameda County Environmental Health Department (Local Oversight Program (County)). Address: 1131 Harbor Bay Parkway, Alameda, CA 94502. Agency Caseworker: Dilan Roe. Case No. RO0000403.

Case Information

Table with 2 columns: Case Information and Address. Rows include: USTCF Claim No.: 5502, Global ID: T0600100210; Site Name: BP #11133, Site Address: 2220 98th Street, Oakland, CA 94603; Responsible Party 1: ConocoPhillips, Attn: Terry Grayson, Address: 76 Broadway Street, Sacramento, CA 95818; Responsible Party 2: Suncor Holdings Corp., Attn: Keith Marks, Address: 11601 Wilshire Blvd, #700, Los Angeles, CA 90025; Responsible Party 3: BP/ARCO, Janet Wager, Attn: Hollis Phillips, Address: 100 Montgomery, Suite 300, San Francisco, CA 94104; USTCF Expenditures to Date: \$574,684, Number of Years Case Open: 25.

URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600100210

Summary

The Low-Threat Underground Storage Tank Case Closure Policy (Policy) contains general and media-specific criteria, and cases that meet those criteria are appropriate for closure pursuant to the Low-Threat Policy. This case meets all of the required criteria of the Low-Threat Policy. A summary evaluation of compliance with the Low-Threat Policy is shown in Attachment 1: Closure of Underground Storage Tank Sites' Checklist for Compliance with State Water Board Policies and State Law. The Conceptual Site Model upon which the evaluation of the case has been made is described in Attachment 2: Summary of Basic Case Information. Highlights of the Conceptual Site Model of the case follow:

A leak was reported in June 1987 during the removal of USTs. Since 1998, thirteen monitoring wells have been installed, contaminated soil excavated, and soil and groundwater remediated accounting for the removal of 13,839 pounds of petroleum hydrocarbons from soil vapor and groundwater. According to groundwater data, no free product has been reported since 2001, and water quality objectives (WQOs) have been achieved for all constituents except for TPH gasoline (TPHg), MTBE and benzene in one well. The Site is currently a vacant lot.

According to data available in GeoTracker, there are no public supply wells regulated by California Department of Public Health (CDPH) within 250 feet of the Site. No other supply wells were identified in any of the files reviewed. Water is provided to water users near the Site by the East Bay Municipal Utility District (EBMUD). The affected groundwater is not currently being used as a source of drinking water, and it is highly unlikely that the affected groundwater will be used as a source of drinking water in the foreseeable future. Other designated beneficial uses of impacted groundwater are not threatened and it is highly unlikely that they will be considering these factors in the context of the site setting. Remaining petroleum hydrocarbon constituents are limited, stable and concentrations declining. Corrective actions have been implemented and additional corrective actions are not necessary. Any remaining petroleum hydrocarbon constituents do not pose a significant risk to human health, safety or the environment.

Rationale for Closure under the Low-Threat Policy

- General Criteria – The case meets all eight Policy general criteria.
- Groundwater – The case meets Groundwater-Specific Criterion:
Class 1. The contaminant plume that exceeds water quality objectives is less than 100 feet in length. There is no longer confirmed free product, having been last reported in 2001, and the nearest water supply well or surface water body is greater than 250 feet from the defined plume boundary.
- Vapor Intrusion to Indoor Air – The case meets Policy Criterion 2b. A professional assessment of site-specific risk from exposure shows that maximum concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health. The Site currently consists of a flat vacant lot covered with gravel, soil, concrete, low-growing vegetation and no structures. Concentrations of gasoline constituents above the WQOs are located in the former source area, with no plans to change the current land use. No current risk to indoor air exists at the Site.
- Direct Contact and Outdoor Air Exposure – The case meets Policy Criterion 3a. Maximum concentrations in soil are less than those in Table 1 for Commercial/Industrial and the concentration limits for a Utility Worker are not exceeded. There are no soil sample results in the case record for naphthalene. However, the relative concentration of naphthalene in soil can be conservatively estimated using the published relative concentrations of naphthalene and benzene in gasoline. Taken from Potter and Simmons (1998), gasoline mixtures contain approximately 3% benzene and 0.25% naphthalene. Therefore, benzene can be directly substituted for naphthalene concentrations with a safety factor of ten. Benzene concentrations from the Site are below the naphthalene thresholds in Table 1 of the Policy. Therefore, the estimated naphthalene concentrations meet the thresholds in Table 1 and the Policy criteria for direct contact by a factor of ten. It is highly unlikely that naphthalene concentrations in the soil, if any, exceed the threshold.

Objections to Closure

The County provided their objections to closure on November 15, 2012:

- Invalid Sampling results due to well construction
RESPONSE: The rise in groundwater elevations has been a common occurrence over recent years, submerging some well screens throughout parts of California. The County has accepted these data for 25 years and only questioned them recently. It is unlikely

that resolving the discrepancies would change the conceptual site model and result in a different determination about whether the Site meets Policy Criteria.

- Data inconsistencies in the case file:
RESPONSE: Multiple consultants have worked on this project over 25 years which has resulted in reporting discrepancies. The County has accepted these data for 25 years and only questioned them recently. It is unlikely that resolving the discrepancies would change the conceptual site model and result in a different determination about whether the Site meets the Policy criteria.
- Incomplete public notification process.
RESPONSE: All necessary parties were notified as required by the Policy.
- Data gaps exist.
RESPONSE: Data gaps that may exist are insignificant. It is unlikely that filling data gaps would change the conceptual site model and result in a different determination about whether the Site meets the Policy criteria.
- Application of the Policy Checklist.
RESPONSE: The State Water Board Low-Threat Policy Checklist was used appropriately as a tool to assist in determining if a site meets the criteria in the Policy. The application of the Policy and the Checklist at this Site was reviewed by multiple registered professional staff.

Fund Manager Recommendation for Closure

Based on available information, residual petroleum hydrocarbons at the Site do not pose significant risks to human health, safety, or the environment, and the case meets the requirements of the Policy. Accordingly, the Fund Manager recommends that the case be closed. The State Water Board is conducting public notification as required by the Policy. The Alameda County has the regulatory responsibility to supervise the abandonment of monitoring wells.

Lisa Babcock

Lisa Babcock, P.G. 3939, C.E.G. 1235

12/16/12

Date

Prepared by: Pat G. Cullen, P.G.

ATTACHMENT 1: COMPLIANCE WITH STATE WATER BOARD POLICIES AND STATE LAW

The site complies with the State Water Resources Control Board policies and state law. Section 25296.10 of the Health and Safety Code requires that sites be cleaned up to protect human health, safety, and the environment. Based on available information, any residual petroleum constituents at the site do not pose significant risk to human health, safety, or the environment.

The site complies with the requirements of the Low-Threat Underground Storage Tank (UST) Case Closure Policy as described below.¹

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Is corrective action consistent with Chapter 6.7 of the Health and Safety Code and implementing regulations? The corrective action provisions contained in Chapter 6.7 of the Health and Safety Code and the implementing regulations govern the entire corrective action process at leaking UST sites. If it is determined, at any stage in the corrective action process, that UST case closure is appropriate, further compliance with corrective action requirements is not necessary. Corrective action at this site has been consistent with Chapter 6.7 of the Health and Safety Code and implementing regulations and, since this case meets applicable case-closure requirements, further corrective action is not necessary, unless the activity is necessary for case closure.</p> | <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Have waste discharge requirements or any other orders issued pursuant to Division 7 of the Water Code been issued at this site?</p> | <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |
| <p>If so, was the corrective action performed consistent with any order? There was an order issued for this site. The corrective action performed in the past is consistent with that order. Since this case meets applicable case-closure requirements, further corrective action under the order that is not necessary, unless the activity is necessary for case closure.</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> |
| <p><u>General Criteria</u> General criteria that must be satisfied by all candidate sites:</p> <p>Is the unauthorized release located within the service area of a public water system?</p> <p>Does the unauthorized release consist only of petroleum?</p> <p>Has the unauthorized (“primary”) release from the UST system been stopped?</p> <p>Has free product been removed to the maximum extent practicable?</p> | <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> |

¹ Refer to the Low-Threat Underground Storage Tank Case Closure Policy for closure criteria for low-threat petroleum UST sites.
http://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2012/rs2012_0016atta.pdf

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Has a conceptual site model that assesses the nature, extent, and mobility of the release been developed?</p> <p>Has secondary source been removed to the extent practicable?</p> <p>Has soil or groundwater been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15?</p> <p>Nuisance as defined by Water Code section 13050 does not exist at the site?</p> <p>Are there unique site attributes or site-specific conditions that demonstrably increase the risk associated with residual petroleum constituents?</p> | <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |
| <p><u>Media-Specific Criteria</u> Candidate sites must satisfy all three of these media-specific criteria:</p> <p>1. Groundwater: To satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives must be stable or decreasing in areal extent, and meet all of the additional characteristics of one of the five classes of sites:</p> <p>Is the contaminant plume that exceeds water quality objectives stable or decreasing in areal extent?</p> <p>Does the contaminant plume that exceeds water quality objectives meet all of the additional characteristics of one of the five classes of sites?</p> <p>If YES, check applicable class: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5</p> <p>For sites with releases that have not affected groundwater, do mobile constituents (leachate, vapors, or light non-aqueous phase liquids) contain sufficient mobile constituents to cause groundwater to exceed the groundwater criteria?</p> | <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> |
| <p>2. Petroleum Vapor Intrusion to Indoor Air: The site is considered low-threat for vapor intrusion to indoor air if site-specific conditions satisfy all of the characteristics of one of the three classes of sites (a through c) or if the exception for active commercial fueling facilities applies.</p> <p>Is the site an active commercial petroleum fueling facility? Exception: Satisfaction of the media-specific criteria for petroleum vapor intrusion to indoor air is not required at active commercial petroleum fueling facilities, except in cases where release characteristics can be reasonably believed to pose an unacceptable health risk.</p> | <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>a. Do site-specific conditions at the release site satisfy all of the applicable characteristics and criteria of scenarios 1 through 3 or all of the applicable characteristics and criteria of scenario 4? If YES, check applicable scenarios: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4</p> <p>b. Has a site-specific risk assessment for the vapor intrusion pathway been conducted and demonstrates that human health is protected to the satisfaction of the regulatory agency?</p> <p>c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that petroleum vapors migrating from soil or groundwater will have no significant risk of adversely affecting human health?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> |
| <p>3. Direct Contact and Outdoor Air Exposure: The site is considered low-threat for direct contact and outdoor air exposure if site-specific conditions satisfy one of the three classes of sites (a through c).</p> <p>a. Are maximum concentrations of petroleum constituents in soil less than or equal to those listed in Table 1 for the specified depth below ground surface (bgs)?</p> <p>b. Are maximum concentrations of petroleum constituents in soil less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health?</p> <p>c. As a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls, has the regulatory agency determined that the concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health?</p> | <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p> |

ATTACHMENT 2: SUMMARY OF BASIC CASE INFORMATION (Conceptual Site Model)

Site Location/ History

- The Site currently consists of a flat vacant lot covered with gravel, soil, concrete, and low-lying vegetation, and is located at the southeastern corner of 98th Avenue and Bancroft Avenue in Oakland, California. BP acquired the Site from Mobil Oil Corporation in 1989; and, in January 1994, BP transferred the Site to TOSCO Marketing Company (TOSCO; now known as ConocoPhillips) and did not operate the facility. TOSCO ceased gasoline retail operations at the Site in 1999.
- The land use in the immediate vicinity of the Site is mixed commercial and residential.
- In June 1987, soil contamination was identified.
- Thirteen monitoring wells have been installed and monitored regularly.
- Site map showing the location of the former USTs, monitoring wells, and groundwater level contours is provided at the end of this summary.
- Nature of Contaminants of Concern: Petroleum hydrocarbons only.
- Source: UST system.
- Date Reported: June 15, 1987.
- Status of Release: USTs removed.
- Free-Phase Hydrocarbons: Yes, up to 1.11 feet in MW-1 and 1.38 feet in RW-1. A total of 162 gallons recovered by 2001. No free product has been reported since 2001.

Tank Information

| Tank No. | Size in Gallons | Contents | Closed in Place/ Removed/Active | Date |
|----------|-----------------|----------|------------------------------------|--------------|
| 1 | 10,000 | Gasoline | Removed | June 1987 |
| 2 | 8,000 | Gasoline | Removed | June 1987 |
| 3 | 5,000 | Gasoline | Removed | June 1987 |
| 4 | 10,000 | Gasoline | Removed | October 1998 |
| 5 | 10,000 | Gasoline | Removed | October 1998 |
| 6 | 12,000 | Gasoline | Removed | October 1998 |

Receptors

- GW Basin: Santa Clara Valley – East Bay Plain.
- Beneficial Uses: Municipal and Domestic Supply.
- Land Use Designation: Unspecified, however review of aerial photography indicates land use in the area is of mixed use with a park to the west, a school to the south and southwest, and multifamily residential to the north and east.
- Public Water System: East Bay Municipal Utility District.
- Distance to Nearest Supply Well: According to data available in GeoTracker, there are no public supply wells regulated by CDPH within 250 feet of the Site. No other supply wells were identified in any of the files reviewed.
- Distance to Nearest Surface Water Body: No surface water bodies were identified within 250 feet of the Site.

Geology/ Hydrogeology

- Stratigraphy: The Site is underlain by clay, silty clay and clayey silt.
- Maximum Sample Depth: 32 feet bgs.

- Minimum Groundwater Depth: 5.31 feet below ground surface (bgs) at monitoring well VEW-9.
- Maximum Groundwater Depth: 21.07 feet bgs at monitoring well AW-9.
- Current Average Depth to Groundwater: 14 feet bgs.
- Saturated Zones(s) Studied: 5 - 35 bgs.
- Appropriate Screen Interval: Yes, most monitoring wells have been submerged for the past couple years.
- Groundwater Flow Direction: West with an average gradient of 0.01 feet/foot (ft/ft).

Monitoring Well Information

| Well Designation | Date Installed | Screen Interval (feet bgs) | Depth to Water (feet bgs) (7/14/2011) |
|------------------|----------------|----------------------------|---------------------------------------|
| AW-1 | June 1990 | 15-35 | 14.05 |
| AW-2 | April 1991 | 20-40 | 14.92 |
| AW-3 | April 1991 | 15-35 | 13.54 |
| AW-4 | June 1990 | 15-35 | 15.50 |
| AW-5 | April 1991 | 20-45 | 16.7 |
| AW-6 | April 1991 | 20-35 | 14.23 |
| AW-7 | April 1991 | 20-35 | No Access |
| AW-8 | April 1991 | 20-40 | 14.92 |
| AW-9 | January 1997 | 12-28 | 15.85 |
| MW-1 | May 1988 | 10-29 | 10.96 |
| MW-2 | May 1988 | 12-32 | 8.90 |
| MW-3 | May 1988 | 14-34 | 11.96 |
| RW-1 | April 1991 | 15-40 | 13.87 |

Remediation Summary (Secondary Source Removal)

- Free Product: Yes, up to 1.11 feet in MW-1 and 1.38 feet in RW-1. A total of 162 gallons recovered by 2001. No free product has been reported since 2001.
- Soil Excavation: Two excavations have occurred at the Site:
 1987 - An unknown amount of soil was excavated, transported and disposed offsite.
 1998 - Approximately 655 tons of soil were excavated, transported and disposed offsite.
- In-Situ Soil and Groundwater Remediation: A soil vapor extraction system (SVE) in conjunction with a groundwater extraction and treatment system (GWETS) was installed and started operation in 1994. In December 1998, when the system was turned off, a total of 13,839 pounds of petroleum hydrocarbons was reported to have been removed.

Most Recent Concentrations of Petroleum Constituents in Soil

| Constituent | Maximum 0-5 feet bgs. [mg/kg and (date)] | Maximum 5-10 feet bgs [mg/kg and (date)] |
|--------------|------------------------------------------|------------------------------------------|
| Benzene | <0.005 @5' in SB1 7/22/2005 | <0.0048 @5' in SB1 7/22/2005 |
| Ethylbenzene | <0.0046 @5' in SB1 7/22/2005 | <0.0048 @9' in SB1 7/22/2005 |
| Naphthalene | NA | NA |
| PAHs | NA | NA |

NA: Not Analyzed, Not Applicable or Data Not Available
 mg/kg: milligrams per kilogram, parts per million
 <: Not detected at or above stated reporting limit
 PAHs: Polycyclic aromatic hydrocarbons

Most Recent Concentrations of Petroleum Constituents in Groundwater

| Sample | Sample Date | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) | TBA (µg/L) |
|--------|-------------|-------------|----------------|----------------|---------------------|----------------|-------------|--------------------|
| AW-1 | 7/14/2011 | 1,600 | 35 | <0.5 | 92 | 6.8 | 26 | 20 |
| AW-2 | 7/14/2011 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <4.0 |
| AW-3 | 7/14/2011 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <4.0 |
| AW-4 | 7/14/2011 | <50 | 5.4 | <0.5 | 1.7 | 2.2 | 4.2 | <4.0 |
| AW-5 | 7/14/2011 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.87 | 4.1 |
| AW-6 | 7/14/2011 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 47 | <4.0 |
| AW-7 | 7/14/2011 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <4.0 |
| AW-8 | 7/14/2011 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <4.0 |
| AW-9 | 7/14/2011 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <4.0 |
| MW-1 | 7/14/2011 | 330 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <4.0 |
| MW-2 | 7/14/2011 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <4.0 |
| MW-3 | 7/14/2011 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <4.0 |
| RW-1 | 7/14/2011 | 310 | 0.07 | <0.5 | <0.5 | 3.1 | 1.1 | 8.9 |
| WQOs | - | | 1 | 150 | 300 | 1,750 | 5 | 1,200 ^a |

NA: Not Analyzed, Not Applicable or Data Not Available

µg/L: micrograms per liter, parts per billion

<: Not detected at or above stated reporting limit

TPHg: Total petroleum hydrocarbons as gasoline

TPHd: Total petroleum hydrocarbons as diesel

MTBE: Methyl tert-butyl ether

TBA: Tert-butyl alcohol

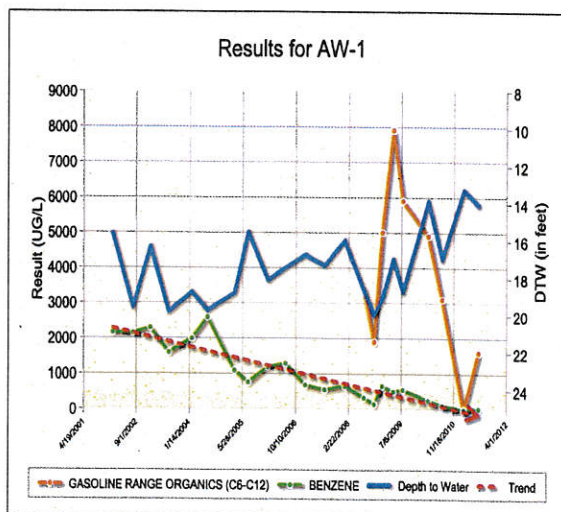
WQOs: Water Quality Objectives, Region 2 Basin Plan

^a: CDPH, Response Level

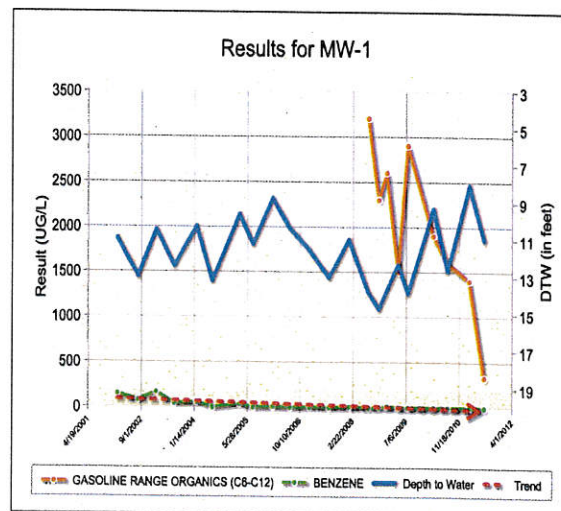
Groundwater Trends:

- There are 21 years of groundwater monitoring data for this Site which demonstrate the concentrations are decreasing and the plume is stable.

Source area well



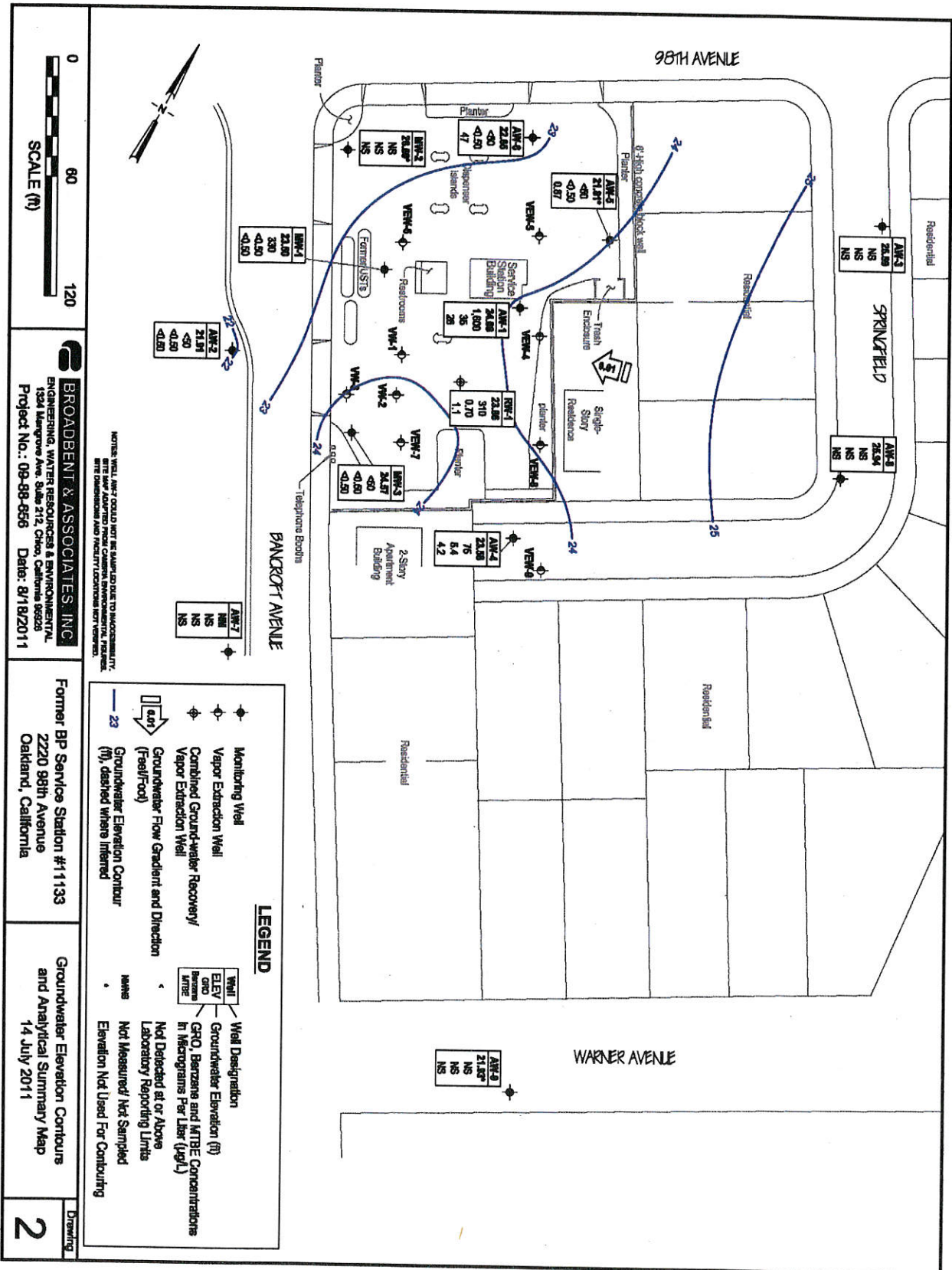
Downgradient well near property line



Evaluation of Risk

- Estimate of Hydrocarbon Mass in Soil: None reported.
- Soil/Groundwater tested for MTBE: Yes, see table below.

- Oxygen Concentrations in Soil Vapor: None reported.
- Plume Length: <100 feet long.
- Plume Stable or Degrading: Yes.
- Contaminated Zone(s) Used for Drinking Water: No.
- Groundwater Risk from Residual Petroleum Hydrocarbons: The case meets Policy Criterion 1. The contaminant plume that exceeds water quality objectives is less than 100 feet in length. There is no longer confirmed free product, having been last reported in 2001, and the nearest water supply well or surface water body is greater than 250 feet from the defined plume boundary.
- Indoor Vapor Risk from Residual Petroleum Hydrocarbons: The case meets Policy Criterion 2b. A professional assessment of site-specific risk from exposure shows that maximum concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health. The Site currently consists of a flat vacant lot covered with gravel, soil, concrete, low-growing vegetation and no structures. Concentrations of gasoline constituents above the WQOs are located in the former source area, with no plans to change the current land use. No current risk to indoor air exists at the Site.
- Direct Contact Risk from Residual Petroleum Hydrocarbons: The case meets Policy Criterion 3a. Maximum concentrations in soil are less than those in Table 1 for Commercial/Industrial and the concentration limits for a Utility Worker are not exceeded. There are no soil sample results in the case record for naphthalene. However, the relative concentration of naphthalene in soil can be conservatively estimated using the published relative concentrations of naphthalene and benzene in gasoline. Taken from Potter and Simmons (1998), gasoline mixtures contain approximately 3% benzene and 0.25% naphthalene. Therefore, benzene can be directly substituted for naphthalene concentrations with a safety factor of ten. Benzene concentrations from the Site are below the naphthalene thresholds in Table 1 of the Policy. Therefore, the estimated naphthalene concentrations meet the thresholds in Table 1 and the Policy criteria for the soil, if any, exceed the threshold.





Attachment B

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 08/08/2013 By jamesy

Permit Numbers: W2013-0556 to W2013-0568
Permits Valid from 08/19/2013 to 08/30/2013

Application Id: 1376001659189
Site Location: 2220 98th Ave
Project Start Date: 08/19/2013
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site:Oakland
Completion Date:08/30/2013

Applicant: ARCADIS - Rob Moniz
2999 Oak Rd, Suite 300, Walnut Creek, CA 94597
Property Owner: Atlantic Richfield Company- Paul Supple
P.O. Box 1257, San Ramon, CA 94583
Client: Atlantic Richfield Company- ARCO-C/O Rob Moniz
4 Centerpoint Dr, 4-427, La Palma, CA 90623
Contact: Rob Moniz

Phone: 925-296-7839
Phone: 925-275-3801
Phone: 510-409-3831
Phone: --
Cell: 510-409-3831

Receipt Number: WR2013-0278 **Total Due:** \$4897.00
Payer Name : Arcadis **Total Amount Paid:** \$4897.00
Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Destruction-Monitoring - 11 Wells
Driller: National EWP - Lic #: 953646 - Method: press

Work Total: \$4367.00

Specifications

| Permit # | Issued Date | Expire Date | Owner Well Id | Hole Diam. | Casing Diam. | Seal Depth | Max. Depth | State Well # | Orig. Permit # | DWR # |
|------------|-------------|-------------|---------------|------------|--------------|------------|------------|--------------|----------------|------------|
| W2013-0556 | 08/08/2013 | 11/17/2013 | AW-1 | 10.00 in. | 2.00 in. | 16.00 ft | 35.00 ft | 2S/3W23B5 | 90277 | Logs Only |
| W2013-0557 | 08/08/2013 | 11/17/2013 | AW-2 | 10.00 in. | 2.00 in. | 16.00 ft | 45.00 ft | 2S/3W23B6 | 90277 | Logs Only |
| W2013-0558 | 08/08/2013 | 11/17/2013 | AW-3 | 10.00 in. | 2.00 in. | 16.00 ft | 45.00 ft | 2S/3W23B7 | 90277 | Logs Only |
| W2013-0559 | 08/08/2013 | 11/17/2013 | AW-4 | 10.00 in. | 2.00 in. | 16.00 ft | 35.00 ft | 2S/3W23B8 | 90277 | Logs Only |
| W2013-0560 | 08/08/2013 | 11/17/2013 | AW-5 | 10.00 in. | 4.00 in. | 17.00 ft | 45.00 ft | No Records | No Records | No Records |
| W2013-0561 | 08/08/2013 | 11/17/2013 | AW-6 | 10.00 in. | 4.00 in. | 17.00 ft | 35.00 ft | No Records | No Records | No Records |
| W2013-0562 | 08/08/2013 | 11/17/2013 | AW-7 | 8.00 in. | 2.00 in. | 17.00 ft | 45.00 ft | No Records | No Records | No Records |
| W2013-0563 | 08/08/2013 | 11/17/2013 | AW-8 | 8.00 in. | 2.00 in. | 17.00 ft | 45.00 ft | No Records | No Records | No Records |
| W2013-0564 | 08/08/2013 | 11/17/2013 | MW-1 | 8.00 in. | 2.00 in. | 9.00 ft | 29.00 ft | 2S/3W23B2 | 88156 | Logs Only |
| W2013-0565 | 08/08/2013 | 11/17/2013 | MW-2 | 8.00 in. | 2.00 in. | 10.00 ft | 32.00 ft | 2S/3W23B3 | 88156 | Logs Only |
| W2013-0566 | 08/08/2013 | 11/17/2013 | MW-3 | 8.00 in. | 2.00 in. | 11.50 ft | 31.00 ft | 2S/3W32B4 | 88156 | Logs Only |

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

Alameda County Public Works Agency - Water Resources Well Permit

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 60 days.

5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

6. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

8. Remove the Christy box or similar structure.

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

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

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

Remediation Well Destruction-Extraction - 12 Wells
Driller: National EWP - Lic #: 34514 - Method: press

Work Total: \$265.00

Specifications

Alameda County Public Works Agency - Water Resources Well Permit

| Permit # | Issued Date | Expire Date | Owner Well Id | Hole Diam. | Casing Diam. | Seal Depth | Max. Depth | State Well # | Orig. Permit # | DWR # |
|------------|-------------|-------------|---------------|------------|--------------|------------|------------|--------------|----------------|--------|
| W2013-0567 | 08/08/2013 | 11/17/2013 | VEW-1 | 11.00 in. | 2.00 in. | 8.00 ft | 16.60 ft | 2S/3W23B | 94407 | 456760 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VEW-2 | 11.00 in. | 2.00 in. | 8.00 ft | 16.60 ft | 2S/3W23B | 94407 | 456760 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VEW-3 | 11.00 in. | 2.00 in. | 8.00 ft | 16.60 ft | 2S/3W23B | 94407 | 456760 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VEW-4 | 11.00 in. | 2.00 in. | 8.00 ft | 16.60 ft | 2S/3W23B | 94407 | 456760 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VEW-5 | 11.00 in. | 2.00 in. | 8.00 ft | 16.60 ft | 2S/3W23B | 94407 | 456760 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VEW-6 | 11.00 in. | 2.00 in. | 8.00 ft | 16.60 ft | 2S/3W23B | 94407 | 456760 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VEW-7 | 11.00 in. | 2.00 in. | 8.00 ft | 16.60 ft | 2S/3W23B | 94407 | 456760 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VEW-8 | 11.00 in. | 2.00 in. | 8.00 ft | 16.60 ft | 2S/3W23B | 94407 | 456760 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VEW-9 | 11.00 in. | 2.00 in. | 8.00 ft | 16.60 ft | 2S/3W23B | 94407 | 436656 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VW-1 | 11.00 in. | 4.00 in. | 8.00 ft | 16.60 ft | 2S/3W23C1 | 921369 | 383591 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VW-2 | 11.00 in. | 4.00 in. | 8.00 ft | 16.60 ft | 2S/3W23C2 | 921360 | 383593 |
| W2013-0567 | 08/08/2013 | 11/17/2013 | VW-3 | 11.00 in. | 4.00 in. | 8.00 ft | 16.60 ft | 2S/3W23C2 | 921361 | 383594 |

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. 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.
3. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Remove the Christy box or similar structure. Pressure Grout with Cement (Less than 30 ft in depth). After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
6. 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.
7. 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

Alameda County Public Works Agency - Water Resources Well Permit

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.

Remediation Well Destruction-Injection - 5 Wells

Driller: National EWP - Lic #: 34514 - Method: press

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 # |
|------------|-------------|-------------|---------------|------------|--------------|------------|------------|--------------|----------------|------------|
| W2013-0568 | 08/08/2013 | 11/17/2013 | IW-1 | 10.00 in. | 4.00 in. | 16.00 ft | 40.00 ft | 2S/3W23B | W2010-0635 | e0117075 |
| W2013-0568 | 08/08/2013 | 11/17/2013 | IW-2 | 10.00 in. | 4.00 in. | 16.00 ft | 40.00 ft | 2S/3W23B | W2010-0635 | e0117073 |
| W2013-0568 | 08/08/2013 | 11/17/2013 | IW-3 | 10.00 in. | 4.00 in. | 16.00 ft | 40.00 ft | 2S/3W23B | W2010-0635 | e0117076 |
| W2013-0568 | 08/08/2013 | 11/17/2013 | OW-1 | 10.00 in. | 2.00 in. | 17.00 ft | 40.00 ft | 2S/3W23B | W2010-0636 | e0117077 |
| W2013-0568 | 08/08/2013 | 11/17/2013 | RW-1 | 8.00 in. | 6.00 in. | 11.00 ft | 40.00 ft | 2S/3W23B | No Records | No Records |

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 60 days.
3. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
4. 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.

5. 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.
6. 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.

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Appl# X1302159 Job Site 2216 98TH AV Parcel# 046 -5477-026-01

Descr Abandon 2 wells: AW-2 & AW-7 on Bancroft Av. Alameda County Permit Issued 08/16/13
docs encl. Call PWA INSPECTION prior to start: 510-238-3651
Rescission needed to final permit. GP09BPNA.

4th floor

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # GP09BPNA. Acctg#: .C107
Util Fund #:

Owner SUNCOR HOLDINGS COP II LLC
Contractor NATIONAL E W P INC X (530)419-7300 953646 C57
Arch/Engr
Agent
Applic Addr 630 LINCOLN AVENUE, WOODLAND, CA 95695, 95695

pwa - inspection
@

JOB SITE

\$436.05 FEES TO BE PAID AT ISSUANCE
\$71.00 Applic \$309.00 Permit
\$.00 Process \$36.10 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other \$19.95 Tech Enh

Application Processed By _____ Date: _____

Permit Issued By *@* _____ Date: _____

Finalled By _____ Date: _____

Application Docs Forwarded To _____ Date: _____

ADDRESS:

DIST:

CITY OF OAKLAND

PAID
SUNC 8/16/13

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Permit No. X1302159 Parcel #: 046 -5477-026-01
Project Address: 2216 98TH AV

Page 2 of 2

Licensed Contractors' Declaration

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration

I hereby affirm under penalty of perjury that there is a construction-lending agency for the performance of the work for which this permit is issued, as provided by Section 3097 of the Business and Professions Code. N/A under Lender implies No Lending Agency.

Lender _____ Address _____

Workers' Compensation Declaration

I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER: _____ POLICY NO. _____

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS, IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3707 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

Hazardous Materials Declaration

I hereby affirm that the intended occupancy WILL WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, & 25534 of the Health & Safety Code, as well as filing instructions, were made available to you.)

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection. I am fully authorized by the owner and to perform the work authorized by this permit.

ADDRESS:

DIST:

Rob Montez
PRINT NAME

[Signature]
Signature Contractor, or Agent

8/16/13
Date

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Appl# X1302160 Job Site 2216 98TH AV Parcel# 046 -5477-026-01

Descr Abandon 2 wells: AW-3; AW-8 on Springfield off 98th Ave. Permit Issued 08/16/13
Alameda County docs encl. Call PWA INSPECTION prior to start
start: 510-238-3651. Rescission needed to final permit.

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # GP09BPNA. Acctg#: .C107
Util Fund #:

Applicant Phone# Lic# --License Classes--

Owner SUNCOR HOLDINGS COP II LLC
Contractor NATIONAL E W P INC X (530)419-7300 953646 C57
Arch/Engr
Agent

Applic Addr 630 LINCOLN AVENUE, WOODLAND, CA 95695, 95695

| | |
|--------------------------------------|------------------|
| \$436.05 FEES TO BE PAID AT ISSUANCE | |
| \$71.00 Applic | \$309.00 Permit |
| \$.00 Process | \$36.10 Rec Mgmt |
| \$.00 Gen Plan | \$.00 Invstg |
| \$.00 Other | \$19.95 Tech Enh |

JOB SITE

Application Processed By _____ Date: _____

Permit Issued By Date: _____

Finalled By _____ Date: _____

Application Docs Forwarded To _____ Date: _____

ADDRESS:

DIST:

CITY OF OAKLAND

PAID
8/16/13

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Permit No. X1302160 Parcel #: 046 -5477-026-01
Project Address: 2216 98TH AV

Page 2 of 2

Licensed Contractors' Declaration

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration

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Lender _____ Address _____

Workers' Compensation Declaration

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[] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER: _____ POLICY NO. _____

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Rob Moniz
PRINT NAME

[Signature]
Signature [] Contractor, or [X] Agent

8/16/15
Date

ADDRESS:
DIST:

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Appl# X1302161 Job Site 2216 98TH AV Parcel# 046 -5477-026-01

Descr Abandon 2 wells: AW-4 & VEW-9 on Springfield at end. Permit Issued 08/16/13
Alameda County docs encl. Call PWA INSPECTION prior to start
start: 510-238-3651. Rescission needed to final permit.

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # GP09BPNA. Acctg#: .C107
Util Fund #:

Applicant Phone# Lic# --License Classes--

Owner SUNCOR HOLDINGS COP II LLC
Contractor NATIONAL E W P INC X (530)419-7300 953646 C57
Arch/Engr
Agent

Applic Addr 630 LINCOLN AVENUE, WOODLAND, CA 95695, 95695

JOB SITE

\$436.05 FEES TO BE PAID AT ISSUANCE
\$71.00 Applic \$309.00 Permit
\$.00 Process \$36.10 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other \$19.95 Tech Enh

Application Processed By _____ Date: _____

Permit Issued By _____  _____ Date: _____

Finalized By _____ Date: _____

Application Docs Forwarded To _____ Date: _____

ADDRESS:

DIST:

CITY OF OAKLAND

PAID
SMC 8/16/13

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Permit No. X1302161 Parcel #: 046 -5477-026-01
Project Address: 2216 98TH AV

Page 2 of 2

Licensed Contractors' Declaration

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration

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Lender _____ Address _____

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[] I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

[] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER: _____ POLICY NO. _____

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Bob Manic
PRINT NAME

[Signature]
Signature [] Contractor, or [x] Agent

8/16/13
Date

ADDRESS: _____
DIST: _____

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Appl# X1302167 Job Site 2216 98TH AV Parcel# 046 -5477-026-01

Descr Abandon 1 well: AW-9 & AW-7 on Warner Av. Alameda County Permit Issued 08/16/13
docs encl. Call PWA INSPECTION prior to start: 510-238-3651
Rescission needed to final permit. GP09BPNA.

Work Type EXCAVATION-PRIVATE P Non-Metered

USA # Util Co. Job # GP09BPNA. Acctg#: .C107
Util Fund #:

Owner SUNCOR HOLDINGS COP II LLC
Contractor NATIONAL E W P INC X (530)419-7300 953646 C57
Arch/Engr
Agent
Applic Addr 630 LINCOLN AVENUE, WOODLAND, CA 95695, 95695

Applcmt Phone# Lic# --License Classes--

\$436.05 FEES TO BE PAID AT ISSUANCE
\$71.00 Applic \$309.00 Permit
\$.00 Process \$36.10 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other \$19.95 Tech Enh

JOB SITE

Permit Issued By _____ Date: _____

Inspection Routing:
Inits Date

FLD-CHEK/Pre-Con
Excavation/Anchor Installation
Sidewalk repair mark-out
Concrete repair
Finalled

ADDRESS:

DIST:

CITY OF OAKLAND

PALD
Sunk 8/16/13

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Permit No. X1302167 Parcel #: 046 -5477-026-01
Project Address: 2216 98TH AV

Page 2 of 2

Licensed Contractors' Declaration

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Construction Lending Agency Declaration

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Lender _____ Address _____

Workers' Compensation Declaration

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[] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER: _____ POLICY NO. _____

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Bb Monk [Signature] 8/16/13
PRINT NAME Signature [] Contractor, or [] Agent Date

ADDRESS:
DIST:



Attachment C

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
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