

Atlantic Richfield Company

Chuck Carmel
Environmental Business Manager

PO Box 1257
San Ramon, CA 94583
Phone: (925) 275-3803
Fax: (925) 275-3815
E-Mail: charles.carmel@bp.com

RECEIVED

4:13 pm, May 09, 2011

Alameda County
Environmental Health

April 29, 2011

Re: Well Abandonment Report
Atlantic Richfield Company Service Station #6148
5131 Shattuck Avenue, Oakland, California
ACEH Case #RO0000077

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.

Submitted by,



Chuck Carmel
Environmental Business Manager

Attachment

WELL ABANDONMENT REPORT
Atlantic Richfield Company Station No. 6148
5131 Shattuck Avenue
Oakland, Alameda County, California
ACEH Case #RO0000077

Prepared for:

Mr. Charles Carmel
Project Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by:



875 Cotting Lane, Suite G
Vacaville, California 95688
(707) 455-7290
www.broadbentinc.com

April 29, 2011

Project No. 06-88-638

April 29, 2011

Project No. 06-88-638

Atlantic Richfield Company
P.O. Box 1257
San Ramon, CA 94583
Submitted via ENFOS

Attn.: Mr. Charles Carmel

Re: Well Abandonment Report, Atlantic Richfield Company Station No. 6148, 5131 Shattuck Avenue, Oakland, Alameda County, California;

Dear Mr. Carmel:

Broadbent & Associates, Inc. (BAI) is pleased to submit this *Well Abandonment Report* for Atlantic Richfield Company Station No. 6148 located at 5131 Shattuck Avenue, Oakland, California (Site). This report documents the permanent decommissioning of seven groundwater monitor, five air-sparge, and ten vapor extraction wells as recommended in the Alameda County Department of Environmental Health's request (Attachment A) to complete the case closure activities for the Site.

Should you have questions or require additional information, please do not hesitate to contact us at (707) 455-7290.

Sincerely,

BROADBENT & ASSOCIATES, INC.



Thomas A. Sparrowe, P.G. #5065 (exp.12/31/12)
Senior Geologist



Enclosures

cc: Mr. Paresh Khatri, Alameda County Department of Environmental Health (Submitted via ACEH ftp Site)
Electronic copy uploaded to GeoTracker

TABLE OF CONTENTS

<u>No.</u>	<u>Section</u>	<u>Page</u>
1.0	Introduction.....	1
2.0	Site Background.....	1
3.0	Field Activities Performed.....	1
3.1	Preliminary Field Activities.....	1
3.2	Well Destruction Activities.....	2
3.3	Well Destruction-Derived Residuals Management	2
4.0	Conclusions & Recommendations.....	2
5.0	Closure.....	2

DRAWINGS

- Drawing 1 Site Location Map
- Drawing 2 Site Map with Abandoned Wells

APPENDICES

- Appendix A Regulatory Correspondence
- Appendix B Well Destruction Permit

WELL ABANDONMENT REPORT
Atlantic Richfield Company Station No.6148
5131 Shattuck Avenue, Oakland, California
ACEH Case #RO0000077

1.0 INTRODUCTION

On behalf of the Atlantic Richfield Company, RM (a BP affiliated company) Broadbent & Associates, Inc. (BAI) has prepared this *Well Abandonment Report* documenting case closure activities at Atlantic Richfield Company Station No. 6148, located at 5131 Shattuck Avenue, Oakland, California (Site). Case Closure was recommended by Alameda County Department of Environmental Health (ACDEH) and the Regional Water Quality Control Board (RWQCB) in ACDEH's August 12, 2010 *Monitoring Well Destruction and Landowner Notification* letter. A copy of this letter is provided in Appendix A. This report includes discussions of field activities performed and recommendations.

2.0 SITE BACKGROUND

The Site is an active ARCO-brand gasoline retail station that consists of a station building, three double-wall fiberglass underground storage tanks (USTs), and two dispenser islands. The Site is located on the southwest corner of Shattuck Avenue at its intersection with 52nd Street in Oakland, California (Drawing 1). The land use in the immediate vicinity of the Site is developed commercial and residential properties. The Site surface area is predominantly covered with concrete and asphalt.

3.0 FIELD ACTIVITIES PERFORMED

On December 1 and 2, 2010 and April 11 and 12, 2011, BAI oversaw Woodward Drilling, Inc. of Rio Vista, California, pressure grout monitor wells MW-1 through MW-7, vapor extraction well VW-1 through VW-10, and air-sparge wells AS-1 through AS-5.

3.1 Preliminary Field Activities

Prior to initiating field activities, BAI submitted a *List of Landowners Notification Form* (Attachment A) to ACEH on September 15, 2010, obtained the necessary well destruction permits from the Alameda County Public Works Agency (ACPWA, Appendix B), prepared a site health and safety plan specific to the work scope, and cleared the Site for subsurface utilities. The utility clearance included notifying Underground Service Alert of the work a minimum of 48 hours prior to initiating the field investigation and securing the services of Cruz Brothers Utility Locators (Cruz) of Scotts Valley, California, to confirm the absence of underground utilities around air-sparge well AS-1.

3.2 Well Destruction Activities

On December 1 and 2, 2010, monitor wells MW-1 through MW-7, vapor extraction wells VW-1 through VW-5 and VW-7 through VW-10, and air-spargers AS-2 through AS-5 were destroyed by pressure grouting. On March 11, 2011, Woodward started to physically clear AS-1 (one-inch diameter well) so that the well could be destroyed by over-drilling using a drill rig. Concrete surrounding the well was removed by jack-hammer to approximately 2.5 below ground surface (fbg) but was found to be a much thicker section than anticipated. It was determined that AS-1 could not be sufficiently cleared of unknown or abandoned buried utilities to at least 6.5 fbg in accordance with the safety protocols within BAI's Ground Disturbance Defined Practice for BP Remediation Management projects. After discussing this situation with ACWPA inspector Ms. Vicky Hamlin, a variance was granted to destroy the well by pressure grouting. On April 12, 2011, the remaining two wells, AS-1 and VW-6, were pressure grouted to complete the well destruction activities at the Site. All well boxes at the site were removed and filled with grout to match the surrounding area. All of the wells were destroyed in accordance with ACPWA's guidelines.

3.3 Well Destruction-Derived Residuals Management

All of the wells were destroyed by pressure grouting; therefore, no drill cuttings or liquids were generated during the Site abandonment activities that required hazardous waste disposal.

4.0 CONCLUSIONS & RECOMMENDATIONS

Monitor wells were abandoned in general accordance with ACDEH's and RWQCB's monitor well destruction recommendations. Well abandonment work activities complete the Site case closure process. No further actions are recommended. We anticipate that following submittal of the report Atlantic Richfield Company will be issued a "Remedial Action Completion Certificate". Atlantic Richfield Company is eagerly awaiting receipt of this documentation.

5.0 LIMITATIONS

This document has been prepared for the exclusive use of Atlantic Richfield Company. The findings presented in this report are based upon the observations of BAI field personnel. Services were performed in accordance with the generally accepted standard of practice at the time this report was written. No warranty, expressed or implied, is intended.

ATTACHMENTS:

- Drawing 1: Site Location Map
- Drawing 2: Well Abandonment Map

- Appendix A. Regulatory Correspondence
- Appendix B Well Destruction Permit

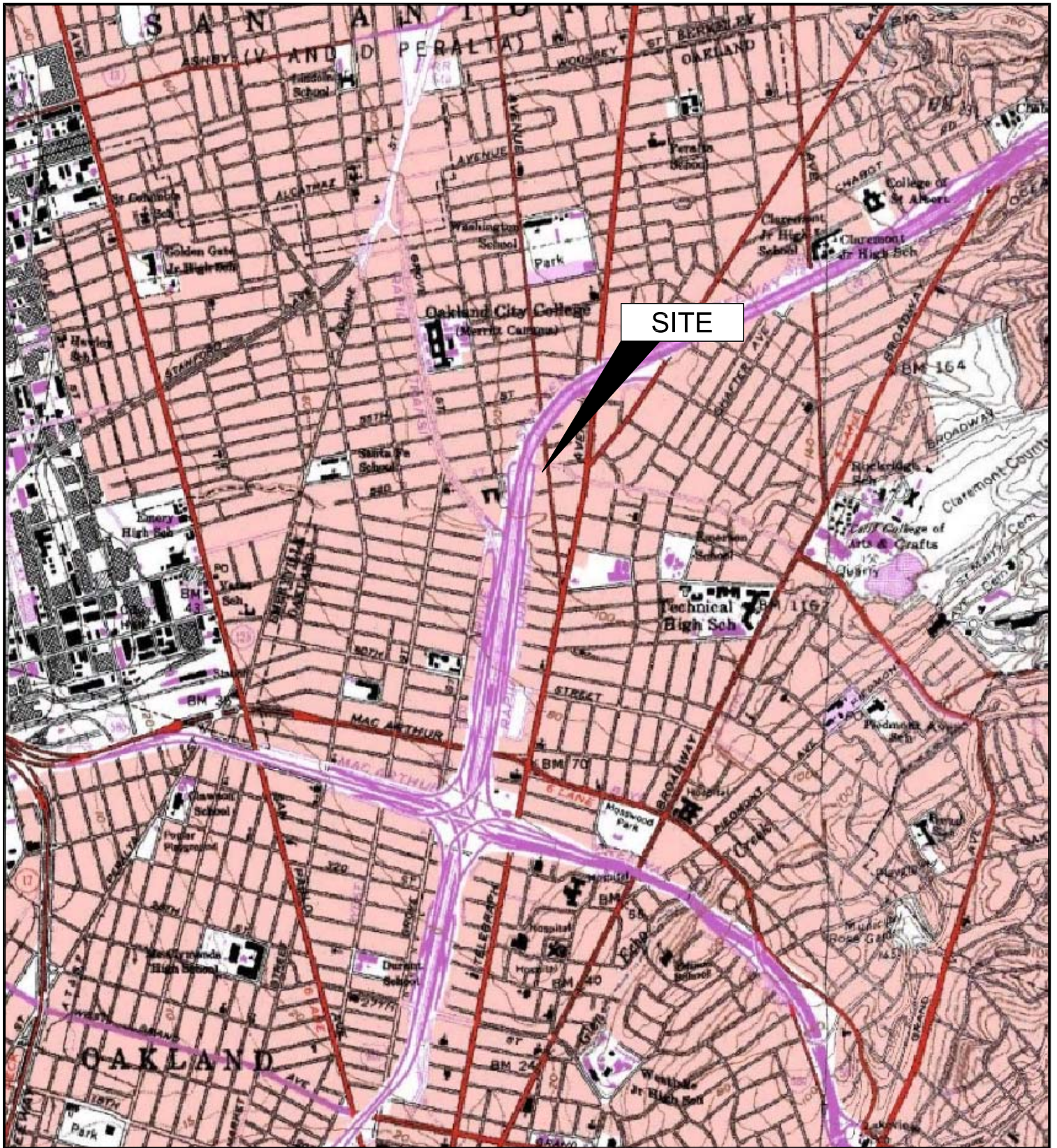
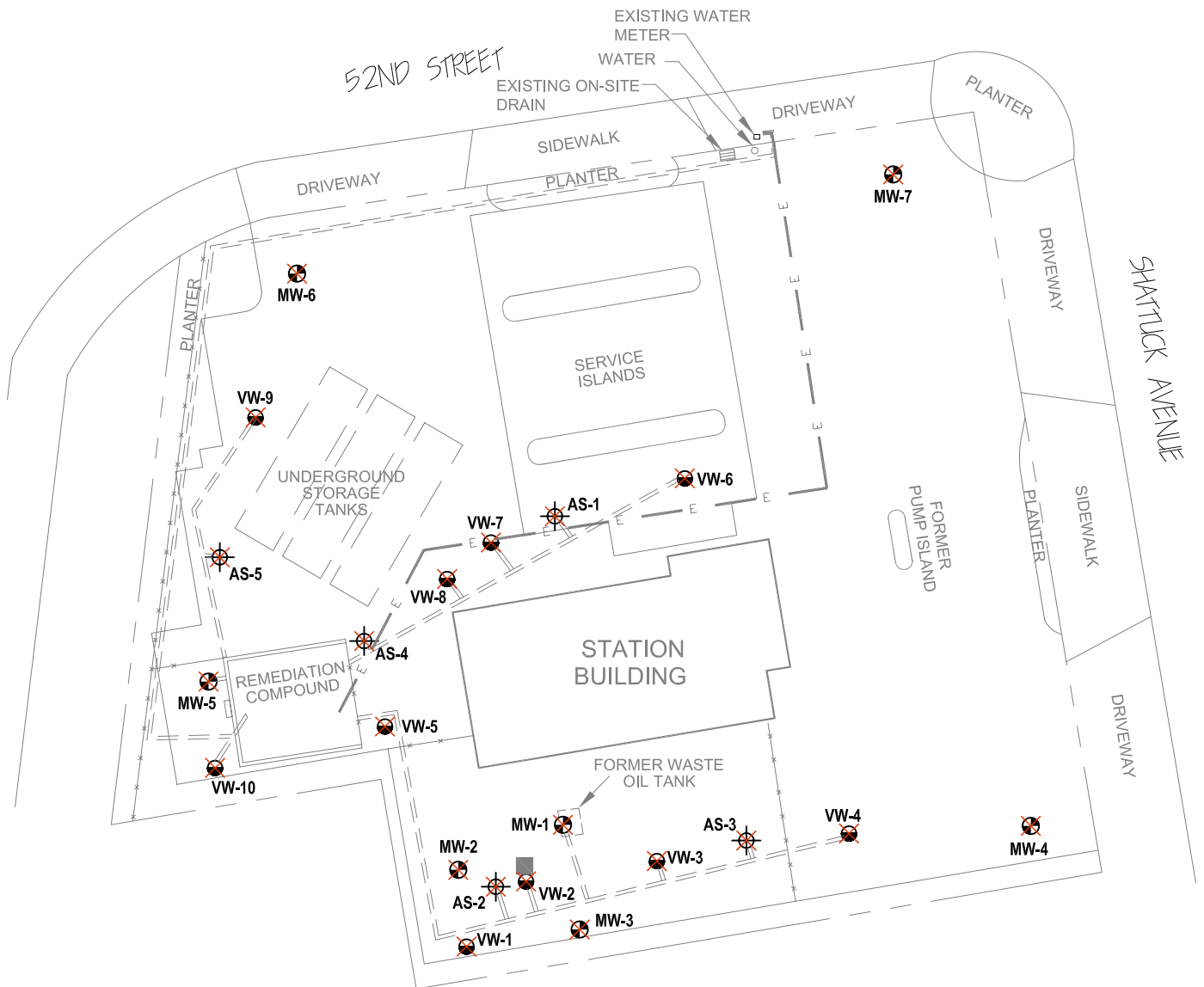
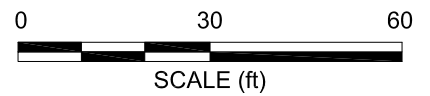
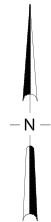


IMAGE SOURCE: USGS



LEGEND

- MONITORING WELL
- AIR SPARGING WELL
- SOIL VAPOR EXTRACTION WELL
- DESTROYED WELL
- ABANDONED WELL
- ELECTRICAL LINE
- FENCING
- REMEDIATION PIPING



APPENDIX A

REGULATORY CORRESPONDENCE

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director



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

August 12, 2010

Charles Carmel (*Sent via E-mail to: charles.carmel@bp.com*)
Atlantic Richfield Corporation
P.O. Box 1257
San Ramon, CA 94583

Subject: Monitoring Well Destruction and Landowner Notification for Fuel Leak Case No. RO0000077 and GeoTracker Global ID T0600100103, ARCO #6148, 5131 Shattuck Avenue, Oakland, CA 94609

Dear Mr. Carmel:

Final approval of case closure for the underground storage tank investigation at the subject site is almost complete. A case summary report proposing closure had been forwarded to the Regional Water Quality Control Board (RWQCB) on June 23, 2010 for their thirty (30) day review period. The RWQCB notified Alameda County Environmental Health (ACEH) that they have no comments on the proposed closure action. Since no comments opposing closure were received, the monitoring wells installed at the site must be properly destroyed, per California Water Code and all current record owners of fee title to the site must be notified by the primary or active responsible party of the proposed closure action, prior to issuance of a remedial action completion certificate.

ACEH requests that you address the following technical comments, perform the proposed work, and send us the technical reports requested below. Upon receipt of the requested documents a remedial action completion certificate will be sent to the responsible party.

TECHNICAL COMMENTS

1. **Monitoring Well Destruction** – ACEH is requesting that you contact Alameda County Public Works Agency at (510) 567-6791, obtain the necessary permits, destroy the wells, and electronically upload the monitoring well destruction report to ACEH's FTP server and the State Water Resources Control Board's GeoTracker website within ninety (90) days from the date of this letter (November 10, 2010). Electronic reporting is described in detail below.
2. **Landowner Notification Form** – As you may be aware, an investigation resulting from underground storage tank leaks was performed at the subject property to which you are named as the primary or active responsible party. Pursuant to Section 25297.15 (a), Alameda County Environmental Health (ACEH), the local agency, shall not consider cleanup or site closure proposals from the primary or active responsible party, issue a closure letter, or make a determination that no further action is required with respect to a site upon which there was an unauthorized release of hazardous substances from an underground storage tank subject to this chapter unless all current record owners of fee title to the site of the proposed action have been notified of the proposed action by the primary or active responsible party. ACEH is required to notify the primary or active responsible party of their

Mr. Carmel
RO000077
August 12, 2010, Page 2

requirement to certify in writing to the local agency that the notification requirement in the above-mentioned regulation has been satisfied and to provide the local agency with a complete mailing list of all record fee title owners.

To satisfy the above-mentioned requirement, please complete the enclosed "List of Landowners Form," and mail it back to ACEH within thirty (30) days from the date of this letter. Also your comments, if any, must be considered prior to the proposed cleanup or closure. Please respond within 30 days from the date of this letter for your comments to be considered.

Upon our receipt of the completed Landowner Notification Form and report of well destruction, (which includes confirmation of investigation derived waste disposal) this office will issue you the remedial action completion certificate

NOTIFICATION OF FIELDWORK ACTIVITIES

Please schedule and complete the fieldwork activities by the date specified below and provide ACEH with at least three (3) business days notification prior to conducting the fieldwork.

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

- **September 13, 2010** – Completed Landowner Notification Form
- **November 10, 2010** – Monitoring Well Destruction Report

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please call me at (510) 777-2478 or send me an electronic mail message at paresh.khatri@acgov.org.

Sincerely,



Digitally signed by Paresh Khatri
DN: cn=Paresh Khatri, o=Alameda
County Environmental Health,
ou=Local Oversight Program,
email=Paresh.Khatri@acgov.org, c=US
Date: 2010.08.12 15:45:26 -07'00'

Paresh C. Khatri
Hazardous Materials Specialist

Enclosure: Landowner Notification Form
Responsible Party(ies) Legal Requirements/Obligations
ACEH Electronic Report Upload (ftp) Instructions

cc: Tom Venus, Broadbent & Associates, Inc., 1324 Mangrove Ave., Suite. 212, Chico, CA 95926 (Sent via E-mail to: tvenue@broadbentinc.com)
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (Sent via E-mail to: lgriffin@oaklandnet.com)
Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Paresh Khatri, ACEH (Sent via E-mail to: paresh.khatri@acgov.org)
GeoTracker
File

Responsible Party(ies) Legal Requirements/Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	REVISION DATE: July 20, 2010
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

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

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password:
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to dehloptoxic@acgov.org
 - b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
 - i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

LIST OF LANDOWNERS FORM

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

CERTIFIED LIST OF RECORD FEE TITLE OWNERS FOR:

Site Name: ARCO #6148
Address: 5131 Shattuck Avenue
City, State, Zip: Oakland, CA 94609
Record ID #: RO0000077

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

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

Name: BP West Coast Products LLC
Address: P.O. Box 1257
City, State, Zip: SAN RAMON, CA 94583
E-mail Address: Charles.Carmel@BP.com

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

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

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

Sincerely,



Signature of Primary Responsible Party

Charles Carmel

Printed Name

8/19/2010

Date

Charles.Carmel@

E-mail Address

BP.com

APPENDIX B

WELL DESTRUCTION PERMIT

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 11/01/2010 By jamesy

Permit Numbers: W2010-0794 to W2010-0801
Permits Valid from 04/11/2011 to 04/12/2011

Application Id: 1288377743095
Site Location: 5131 Shattuck Avenue, Oakland, CA
Project Start Date: 11/15/2010
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org
Extension Start Date: 04/11/2011
Extension Count: 1

City of Project Site: Oakland
Completion Date: 12/31/2011
Extension End Date: 04/12/2011
Extended By: vickyh1

Applicant: Broadbent - Tom Sparrowe
875 Cotting Lane, Ste G, Vacaville, CA 95688
Property Owner: BP West Coast Products, LLC c/o Chuck Carmel
PO Box 1257, San Ramon, CA 94583
Client: ** same as Property Owner **

Phone: 707-455-7290
Phone: 925-275-3803

	Total Due:	\$3044.00
Receipt Number: WR2010-0366	Total Amount Paid:	\$3044.00
Payer Name : Broadbent	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 7 Wells

Driller: Woodward - Lic #: 710079 - Method: hstem

Work Total: \$2779.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2010-0794	11/01/2010	02/13/2011	MW1	10.00 in.	4.00 in.	12.00 ft	29.00 ft	1S/4W14R1	91553	No Records
W2010-0795	11/01/2010	02/13/2011	MW2	10.00 in.	4.00 in.	12.00 ft	26.00 ft	1S/4W14R1	91553	No Records
W2010-0796	11/01/2010	02/13/2011	MW3	10.00 in.	4.00 in.	12.00 ft	26.00 ft	1S/4W14R1	91553	No Records
W2010-0797	11/01/2010	02/13/2011	MW4	10.00 in.	4.00 in.	10.00 ft	26.50 ft	1S/4W14R1	91553	No Records
W2010-0798	11/01/2010	02/13/2011	MW5	10.00 in.	4.00 in.	9.00 ft	25.00 ft	1S/4W14R1	91553	No Records
W2010-0799	11/01/2010	02/13/2011	MW6	10.00 in.	4.00 in.	10.00 ft	27.00 ft	1S/4W14R1	91553	No Records
W2010-0800	11/01/2010	02/13/2011	MW7	10.00 in.	4.00 in.	10.00 ft	27.00 ft	1S/4W14R2	91553	No Records

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

Alameda County Public Works Agency - Water Resources Well Permit

or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
7. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
8. Remove the Christy box or similar structure.

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

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

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

Remediation Well Destruction-Extraction - 15 Wells

Driller: Woodward - Lic #: 710079 - Method: hstem

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 #
W2010-0801	11/01/2010	02/13/2011	AS1	8.00 in.	1.00 in.	0.00 ft	26.90 ft	1S/4W14R2 6	93168	No Records
W2010-0801	11/01/2010	02/13/2011	AS2	8.00 in.	2.00 in.	18.00 ft	21.50 ft	1S/4W14R2 6	93168	No Records
W2010-0801	11/01/2010	02/13/2011	AS3	8.00 in.	2.00 in.	19.50 ft	21.60 ft	1S/4W14R2 6	93168	No Records

Alameda County Public Works Agency - Water Resources Well Permit

W2010-0801	11/01/2010	02/13/2011	AS4	8.00 in.	2.00 in.	25.00 ft	27.60 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	AS5	8.00 in.	2.00 in.	24.00 ft	26.60 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	VW1	12.00 in.	4.00 in.	13.00 ft	25.00 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	VW10	10.00 in.	4.00 in.	9.00 ft	25.00 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	VW2	10.00 in.	4.00 in.	7.00 ft	25.00 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	VW3	12.00 in.	4.00 in.	13.00 ft	25.00 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	VW4	10.00 in.	4.00 in.	8.50 ft	21.50 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	VW5	10.00 in.	4.00 in.	8.50 ft	25.00 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	VW6	10.00 in.	4.00 in.	4.50 ft	20.00 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	VW7	10.00 in.	4.00 in.	7.60 ft	25.00 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	VW8	10.00 in.	4.00 in.	9.00 ft	25.00 ft	1S/4W14R2	93168	No Records
W2010-0801	11/01/2010	02/13/2011	VW9	10.00 in.	4.00 in.	8.00 ft	25.00 ft	1S/4W14R2	93168	No Records

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. Sound the well to measure depth and to ensure no obstructions exist.

Excavate and remove existing casing 3 to 5 foot below ground surface (bgs), including vent cap and well or vault cover.

Grout neat cement with a tremie to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade.

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

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

4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

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.

Alameda County Public Works Agency - Water Resources Well Permit

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 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.
