



**Carryl MacLeod**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
6101 Bollinger Canyon Road  
San Ramon, CA 94583  
Tel (925) 790-6506  
cmacleod@chevron.com

Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: Former Chevron Service Station No. 371572  
3645 San Pablo Avenue  
Emeryville, CA

**RECEIVED**

8:04 am, Dec 06, 2012

Alameda County  
Environmental Health

I have reviewed the attached report dated November 28, 2012.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in black ink that reads "Carryl MacLeod".

Carryl MacLeod  
Project Manager

Attachment: Letter



**CONESTOGA-ROVERS  
& ASSOCIATES**

5900 Hollis Street, Suite A  
Emeryville, California 94608  
Telephone: (510) 420-0700 Fax: (510) 420-9170  
<http://www.craworld.com>

November 28, 2012

Reference No. 062056

Mr. Mark Detterman  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: Work Plan for Subsurface Investigation  
Former Chevron Service Station 371572  
3645 San Pablo Road  
Emeryville, California  
Fuel Leak Case RO0003068

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Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting this *Work Plan for Subsurface Investigation* for the site referenced above on behalf of Chevron Environmental Management Company (Chevron) as requested by the Alameda County Environmental Health (ACEH) letter dated January 6, 2012 (Attachment A). The purpose of this scope of work, outlined in this work plan, is to delineate the extent of hydrocarbons in both soil and groundwater. Site background and CRA's proposed scope of work are presented below.

## **SITE BACKGROUND**

### ***Site Description***

The site is a commercial building occupied by a restaurant, Lane Splitters Pizza, located at 3645 San Pablo Avenue, on the corner of Adeline Street and San Pablo Avenue in Emeryville, California (Figure 1). The site was occupied by a service station from 1947 to 1966.<sup>1</sup> In 1966, the service station ceased operation and the station building was demolished. It is unknown if the underground storage tanks (USTs) and related piping associated with the service station were removed during or after site demolition. In 1966 a building was constructed and utilized as a convenient/liquor store.<sup>1</sup> In the early 2000's, the building was demolished and in 2010 a new building, which currently occupies the site, was constructed.

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<sup>1</sup> Ninyo & Moore, 2002, *Phase I Environmental Site Assessment*, 3645 San Pablo Avenue, Emeryville, California, February 6, 2002.

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Equal  
Employment Opportunity  
Employer

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November 28, 2012

Reference No. 062056

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### ***Previous Environmental Work***

A total of 21 soil samples have been collected since 2004 (Figure 2). Approximately 153 tons (95 cubic yards) of soil was excavated in 2009.<sup>2</sup> A summary of previous environmental investigation is included as Attachment B.

### ***Site Geology***

Sediments in the vicinity consist of Holocene-age alluvial deposits comprised of unconsolidated, fine sand, silt, and clayey silt with occasional thin beds of coarse sand.<sup>1</sup> Soil encountered beneath the site generally consists of clay to approximately 10 feet below grade (fbg), the total depth explored.<sup>3</sup>

### ***Site Hydrogeology***

The site is located within the East Bay Plain groundwater basin.<sup>4</sup> Groundwater in the basin typically flows towards San Francisco Bay to the west. Site topography is relatively flat at an elevation of approximately 35 feet above mean sea level, with the surrounding topography sloping slightly towards the west. Review of environmental reports for an adjacent site indicates depth to groundwater is typically below 10 fbg with a flow direction to the west.<sup>5</sup>

## **PROPOSED SCOPE OF WORK**

Based on previous investigations, the highest hydrocarbon concentrations detected were located at boring B-1, B-2, and B-4 in the area surrounding the northern Excavation #2 that took place in 2009. Hydrocarbon concentrations were also detected at sample location EX-1 near Excavation #1 that took place in 2009 (Figure 2). Hydrocarbon concentrations detected in soil do not exceed the State Water Resources Control Board's (SWRCB's) low-threat UST case

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<sup>2</sup> Northgate Environmental Management, Inc. (Northgate), 2009. *Remedial Action Report*, November 9, 2009

<sup>3</sup> Ninyo & Moore, 2004. *Limited Phase II Environmental Site Assessment*, 3645 San Pablo Avenue, Emeryville, California, March 30, 2004.

<sup>4</sup> California Department of Water Resources, 2004. *California's Groundwater, Bulletin 118*, San Francisco Bay Hydrologic Region, Santa Clara Valley Groundwater Basin, East Bay Plain Subbasin, February 27, 2004.

<sup>5</sup> GRIBI Associates, 2012. *Report of Remedial Investigation and Workplan to Conduct Interim Remedial Measures*, 3800 San Pablo Avenue, Emeryville, California, July 13, 2012.



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closure criteria <sup>5</sup> between 2.5 and 8 fbg. Groundwater has not been characterized. CRA proposes to advance up to five soil borings to further delineate the lateral and vertical extent of hydrocarbons in soil and groundwater. The proposed soil boring locations are presented on Figure 2. As requested by the ACEH in the letter dated January 6, 2012, a utility and water supply well survey will be completed. The water supply well survey will be completed within a ¼-mile radius of the site. A conceptual site model will be completed after this site assessment has been completed and be included in the report documenting the results of this proposed assessment. To accomplish this work, CRA will conduct the following:

#### ***Site Health and Safety Plan***

CRA will prepare a site safety plan to protect site workers. The plan will be reviewed and signed by all site workers and visitors. The plan will be kept onsite during all field activities.

#### ***Permits***

CRA will obtain drilling permits from Alameda County Public Works and schedule the required inspections prior to beginning field work.

#### ***Underground Utility Location and Utility Clearance***

CRA will contact Underground Service Alert to identify locations of underground utilities at least 48 hours prior to any drilling activities. A licensed geophysicist will also be contracted to perform a geophysical survey of pertinent areas to confirm utility locations and identify any previously unidentified utilities. Per Chevron and CRA safety procedures, each soil boring location will be cleared of utilities using hand augers to 8 fbg.

#### ***Soil Borings***

After clearing to 8 fbg, five soil borings will be advanced to first encountered groundwater using hydraulic push rods lined with 4 foot acetate liners. We estimate that the borings will be advanced to approximately 24 fbg. If drilling refusal is encountered before groundwater is encountered, 5-inch hollow stem augers will be utilized to complete the borings to groundwater. Once soil and groundwater samples have been collected, the borings will be filled with Portland Type I/II cement through a tremie pipe from the bottom to approximately 2 inches below grade and capped with concrete to match the existing grade. Exact boring locations and final depths will be based on site and utility constraints and groundwater depth. CRA's *Standard Field Procedures for Soil Borings* is included as Attachment B.

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<sup>6</sup> State Water Resources Control Board (SWRCB, 2012). Resolution No. 2012-0016, *Low-Threat Underground Storage Tank Case Closure Policy* (Low-Threat Policy), adopted August 17, 2012.



November 28, 2012

Reference No. 062056

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### ***Soil Sampling***

Soil samples will be collected at approximately 5-foot intervals, or obvious changes in soils, or where indicators of petroleum hydrocarbons are observed. Soil samples above 8 fbg will be collected by driving steel tubes into disturbed sediments removed by the hand auger bucket. Soil samples below 8 fbg will be collected by either driving a modified California split spoon sampler lined with three 6-inch brass tubes or a 4-foot acetate lined direct push sampler into undisturbed sediments. CRA will log collected soils using the ASTM D 2488 Unified Soil Classification System. Soil will be field-screened using a photo-ionization detector (PID). All samples will be sealed, capped, labeled, logged on a chain-of-custody form, placed on ice, and transported to a Chevron and State-approved laboratory for analysis.

### ***Grab-Groundwater Sampling***

Grab-groundwater samples will be collected using a direct push technology groundwater sampler at each boring location. Groundwater samples will be collected using a peristaltic pump with disposable tubing, decontaminated stainless steel bailer, or a disposal bailer. The samples will be decanted into clean laboratory approved containers, properly sealed, labeled, preserved on ice, logged on a chain-of-custody form, and submitted to a Chevron and State-approved laboratory for analysis.

### ***Soil Chemical Analyses***

Select soil samples will be analyzed per the SWRCB's September 2012 *Leaking Underground Fuel Tank Guidance (LUFT) Manual* to characterize petroleum hydrocarbons (gasoline, diesel, and motor oil) in soil:

- Total petroleum hydrocarbons as diesel (TPHd) by Environmental Protection Agency (EPA) Method 8015B modified with silica gel clean up
- Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015B modified
- Benzene, toluene, ethylbenzene, total xylenes (BTEX) by EPA Method 8260B
- 16 priority pollutant polycyclic aromatic hydrocarbon (PAHs) by EPA Method 8270 SIM: naphthalene, acenaphthene, acenaphthylene, anthracene, phenanthrene, fluorene, chrysene, fluoranthene, pyrene, benzo(b)fluoranthene, benzo(a) pyrene, benzo(k)fluoranthene, benzo(a)anthracene, indeno (1,2,3-c,d)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene
- Chlorinated solvents by EPA Method 8260B/C for 1,2-dibromoethane (EDB) and 1,2-dichloroethane (EDC)
- Metals: cadmium chromium, nickel, lead and zinc by EPA 6010/6020



November 28, 2012

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### ***Groundwater Chemical Analyses***

Grab-groundwater samples will be analyzed per the SWRCB's September 2012 Leaking Underground Fuel Tank Guidance Manual to characterize petroleum hydrocarbons (gasoline, diesel, and motor oil) in groundwater:

- TPHd by EPA Method 8015B modified with silica gel clean up
- TPHg by EPA Method 8015B modified
- BTEX by EPA Method 8260B
- 16 priority pollutant polycyclic aromatic hydrocarbon (PAHs) by EPA Method 8270 SIM: naphthalene, acenaphthene, acenaphthylene, anthracene, phenanthrene, fluorene, chrysene, fluoranthene, pyrene, benzo(b)fluoranthene, benzo(a) pyrene, benzo(k)fluoranthene, benzo(a)anthracene, indeno (1,2,3-c,d)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene
- Chlorinated Solvents by EPA Method 8260B/C for 1,2-dibromoethane (EDB) and 1,2-dichloroethane (EDC)

### ***Waste Disposal***

Soil cuttings generated will be placed in Department of Transportation approved 55-gallon drums and stored onsite pending analytical waste profiling. Once characterized, these wastes will be disposed at the appropriate State and Chevron-approved facility.

### ***Utility Survey***

CRA proposes to map the subsurface utility structures at the site by noting exposed features (e.g. manhole covers) and underground service alert markings, reviewing engineering drawings from the utility purveyors, and completing a private utility mark out onsite. CRA will attempt to determine the top and bottom depths of utility trenches. All utilities will be shown on a scaled site plan, and if available the diameter, depth, and flow direction of the utilities will also be represented.

### ***Well Survey***

CRA will request the *Well Driller Completion Reports* from the California Department of Water Resources (DWR) for all wells located within a ¼ mile radius of the site. CRA will identify and discuss all surface water bodies within ¼ mile radius of the site. CRA will identify and discuss any sites with sensitive land usage (i.e. schools, daycare, hospitals, and etc.) within 500 ft of the site. In addition, CRA will contact local agencies to determine if any municipal wells are located in the vicinity of the site. All wells identified will be tabulated and represented on a scaled map and included in the site assessment.



**CONESTOGA-ROVERS  
& ASSOCIATES**

November 28, 2012

Reference No. 062056

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### ***Reporting***

Upon completion of field activities and review of the analytical results, CRA will prepare a conceptual site model report that, at a minimum, will contain:

- Descriptions of drilling and sampling methods
- Boring logs
- Tabulated soil and groundwater analytical results
- A figure illustrating the boring locations
- Conceptual site model
- Sensitive receptor survey
- Geologic cross-sections
- Soil and groundwater concentration maps
- Analytical reports and chain-of-custody forms
- Soil disposal methods
- Conclusions and recommendations

### ***Schedule***

CRA will proceed with the proposed scope of work upon receipt of written approval from ACEH and a written agreement with the current property owner to access the property. CRA will submit our investigation report approximately 6 to 8 weeks after completion of field activities and receipt of analytical data.



**CONESTOGA-ROVERS  
& ASSOCIATES**

November 28, 2012

Reference No. 062056

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If you have any questions or comments regarding this work plan, please contact Nathan Lee at (510) 420-3333 or email at nlee@craworld.com.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



Celina Hernandez, PG 8931

APM/mws/1  
Encl.

Figure 1 Site Vicinity Map  
Figure 2 Site Plan with Proposed Boring Locations

Attachment A Regulatory Correspondence  
Attachment B Previous Environmental Investigation and Remediation  
Attachment C Standard Field Procedures for Soil Borings

c.c.: Ms. Carryl MacLeod, Chevron  
Dan Vic Diversified, LLC  
Placeworks, LLC  
Mr. Markus Niebanck, City of Emeryville Redevelopment Agency

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FIGURE

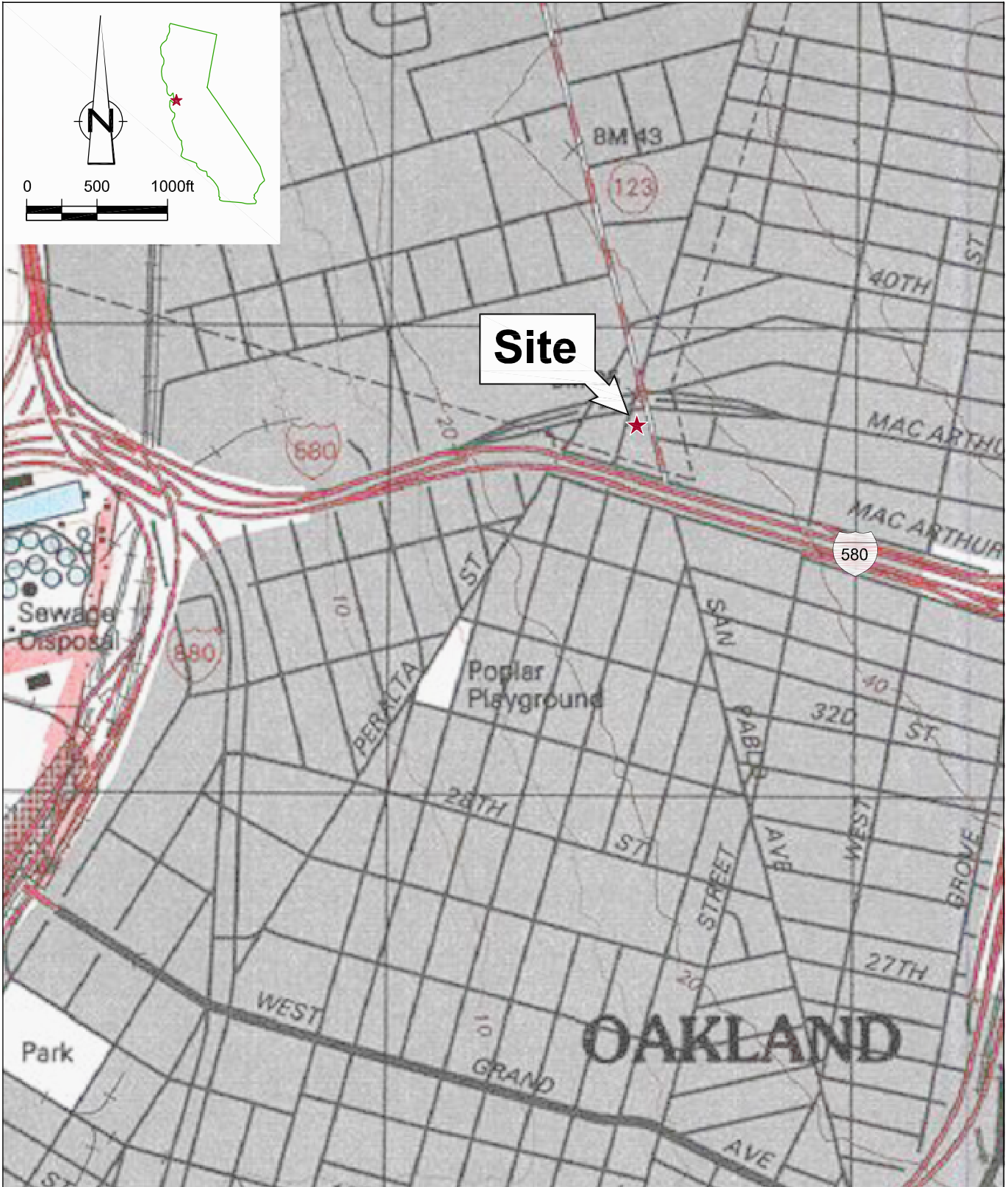


Figure 1  
 SITE VICINITY MAP  
 FORMER CHEVRON STATION 371572  
 3645 SAN PABLO AVENUE  
*Emeryville, California*



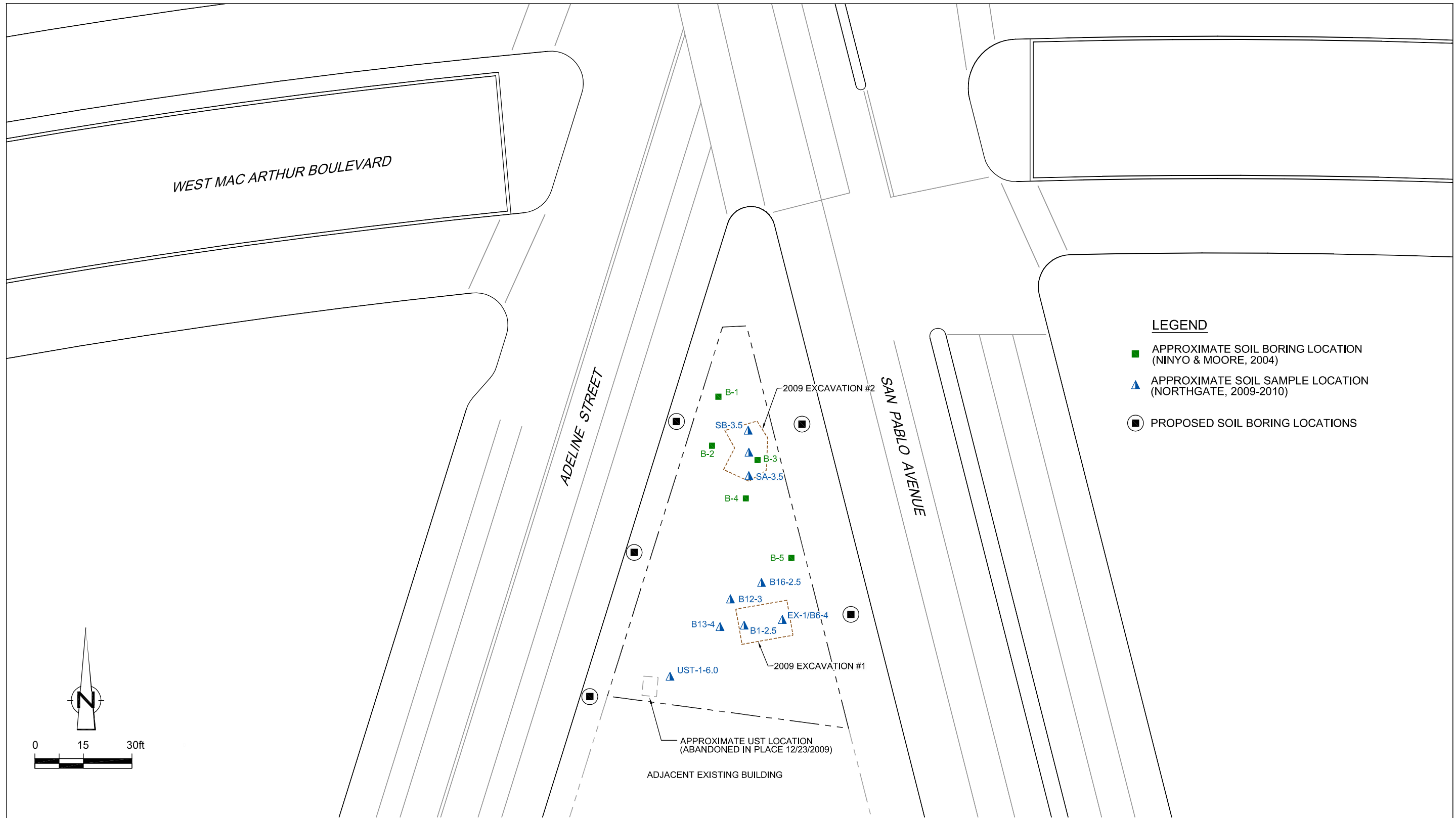


Figure 2  
 SITE PLAN WITH PROPOSED SOIL BORING LOCATIONS  
 FORMER CHEVRON STATION 371572  
 3645 SAN PABLO AVENUE  
 Emeryville, California



ATTACHMENT A  
REGULATORY CORRESPONDENCE



ALAMEDA COUNTY  
**HEALTH CARE SERVICES**  
AGENCY  
ALEX BRISCOE, Director



Copy

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

January 6, 2012

Dan and Vic Diversified, LLC  
2033 San Pablo Avenue  
Berkeley, CA 94702

Placeworks, LLC  
1501 Pacific Avenue  
Alameda, CA 94501

Mr. Markus Niebanck  
City of Emeryville Redevelop. Agency  
1333 Park Avenue  
Emeryville, CA 94608  
(sent via electronic mail to:  
[mniebanck@ci.emeryville.ca.us](mailto:mniebanck@ci.emeryville.ca.us))

Subject: Request for Site Investigation Work Plan; Fuel Leak Case No. RO0003068 and GeoTracker Global ID T1000002518, Lane Splitters Pizza, 3645 San Pablo Avenue, Emeryville, CA 94608

Dear Responsible Parties:

Alameda County Environmental Health (ACEH) has reviewed the case file, including the *Limited Phase II Environmental Site Assessment*, dated March 30, 2004, generated by Ninyo & Moore, the *Remedial Action Report*, dated November 9, 2009, generated by Northgate Environmental Management, Inc. (Northgate), and the *UST Soil Sampling Test Results*, dated January 7, 2010, also generated by Northgate. Thank you for submitting the reports. These reports indicate that on December 23, 2009 one underground storage tank (UST) of unknown size was abandoned in-place at the site during installation of the fire service as the site continued construction. The UST was cleaned and backfilled. One soil sample was collected at a depth of approximately 5.5 ft bgs at a location approximately 2 feet east of the UST. Analysis of the soil sample indicated that 980 mg/kg TPHg, 870 mg/kg TPHd, 3,300 mg/kg TPHmo, <0.77 mg/kg benzene, 2.3 mg/kg toluene, 1.5 mg/kg ethylbenzene, 11.4 mg/kg total xylenes, and <0.77 mg/kg MTBE were present; additional analytes were also detected.

Prior to these actions a 2002 Phase I Environmental Assessment found that the site had been a gasoline service station between approximately 1947 and 1969. A 2004 subsurface investigation conducted a geophysical survey and found a generalized disturbed signature beneath the site. Five soil bores were also installed and found concentrations of TPH, BTEX, and MTBE, generally below regulatory thresholds. Two petroleum hydrocarbon hotspots were encountered during site grading, up to 20 eight-foot deep soil bores are reported to have been installed around Hotspot #1 (although this data has not been submitted), soil samples collected, and ultimately approximately 25.5 tons of impacted soil was excavated off hauled. Hotspot #2 is described as a fill pit presumed to be a location of a former UST, soil samples were collected, and ultimately approximately 127.1 tons of soil was excavated and off-hauled. Concentrations up to 310 mg/kg TPHg, 629 mg/kg TPHd, 1,700 mg/kg TPHmo, <2.5 mg/kg benzene, <2.5 mg/kg toluene, 3.7 mg/kg ethylbenzene, 5.3 mg/kg total xylenes, and <2.5 mg/kg MTBE were encountered in the two hotspot locations. The chromatographic pattern for the TPHg and TPHd analysis are reported not to match standard patterns.

Based on the review of the case file ACEH requests that you address the following technical comments and send us the documents requested below.

**TECHNICAL COMMENTS**

1. **GeoTracker Compliance** – A review of the State Water Resources Control Board's (SWRCB) GeoTracker website indicates the site has not been claimed. Because this is a state requirement, ACEH now requests that the site be claimed in GeoTracker by the date identified below.



Pursuant to California Code of Regulations, Title 23, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1, beginning September 1, 2001, all analytical data, including monitoring well samples, submitted in a report to a regulatory agency as part of the UST or LUST program, must be transmitted electronically to the SWRCB GeoTracker system via the internet. Also, beginning January 1, 2002, all permanent monitoring points utilized to collect groundwater samples (i.e. monitoring wells) and submitted in a report to a regulatory agency, must be surveyed (top of casing) to mean sea level and latitude and longitude to sub-meter accuracy using NAD 83. A California licensed surveyor may be required to perform this work. Additionally, pursuant to California Code of Regulations, Title 23, Division 3, Chapter 30, Articles 1 and 2, Sections 3893, 3894, and 3895, beginning July 1, 2005, the successful submittal of electronic information (i.e. report in PDF format) shall replace the requirement for the submittal of a paper copy. Please claim your site and upload all future submittals to GeoTracker and ACEH's ftp server by the date specified below. Electronic reporting is described below on the attachments.

Additional information regarding the SWRCB's GeoTracker website may be obtained online at [http://www.waterboards.ca.gov/water\\_issues/programs/ust/electronic\\_submittal/](http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/) and [http://www.swrcb.ca.gov/ust/electronic\\_submittal/report\\_rqmts.shtml](http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml)) or by contacting the GeoTracker Help Desk at [geotracker@waterboards.ca.gov](mailto:geotracker@waterboards.ca.gov) or (866) 480-1028.

2. **Request for a Work Plan With SCM** – In order to define the extent of any soil and groundwater contamination (lateral, downgradient, and vertical) in both soil and groundwater, ACEH requests the submittal of a work plan with a Site Conceptual Model (SCM) by a consultant qualified to undertake the work by the date identified below. Because the data at the site is reasonably extensive already, the work plan should not focus exclusively on the abandoned UST, but should present a comprehensive site evaluation, including all site analytical data, bore hole locations, etc., in comprehensive tables and figures. This is requested in part because not all site data has been disclosed yet (see below), and will allow any data gaps to be addressed comprehensively at the site as a whole. ACEH requests submittal of the work plan and SCM by the date identified below.
3. **Request for Preferential Pathway Survey** – The purpose of the preferential pathway study is to locate potential migration pathways and conduits and determine the probability of a groundwater plume encountering preferential pathways and conduits that could spread contamination. In part this is requested because the fire service was installed through the abandoned UST location, and in part to more comprehensively review the site in conjunction with the SCM. We request that you perform a preferential pathway study that details the potential migration pathways and potential conduits (utilities, utility laterals, pipelines, foundational, and etc.) for vertical and lateral migration that may be present in the vicinity of the site.

Discuss your analysis and interpretation of the results of the preferential pathway study (including the detailed well survey and utility survey requested below) and report your results in the report requested below. The results of your study shall contain all information required by California Code of Regulations, Title 23, Division 3, Chapter 16, §2654(b).

- a. **Utility Survey** - An evaluation of all utility lines, utility laterals, and trenches (including sewers, storm drains, pipelines, trench backfill, foundation backfill, etc.) within and near the site and plume area(s) is required as part of your study. Please assimilate, reduce, and synthesize available information and maps, and generate appropriate (vicinity and / or site specific) maps and cross-sections illustrating the location and depth of all utility lines and trenches within and near the site and plume areas(s) as part of your study.
  - b. **Well Survey** - The preferential pathway study is requested to include a well survey of all wells (monitoring and production wells: active, inactive, standby, decommissioned (sealed with concrete), abandoned (improperly decommissioned or lost); and dewatering, drainage, and cathodic protection wells) within a ¼ mile radius of the subject site.
4. **Request for Information** - ACEH's case file for the subject site contains only the electronic files listed on our website (please see attachments for a link). Please submit an electric copy of all missing reports, data, and correspondence related to environmental investigations for this property by the date identified below.



5. **Request for Point of Contact and Email Addresses** – If your business does not have a point of contact listed, or an email address is not listed on the first page of this letter, ACEH requests your email address to help expedite communications and to help lower overall costs. Please provide that information in your next submittal.

#### **UNDERGROUND STORAGE TANK CLEANUP FUND**

Please be aware that site investigation/site cleanup costs may be reimbursable from the California Underground Storage Tank Cleanup Fund. The application and additional information is available at the State Water Resources Control Board's website at [http://www.waterboards.ca.gov/water\\_issues/programs/ustcf](http://www.waterboards.ca.gov/water_issues/programs/ustcf). Please be aware that reimbursement monies are contingent upon maintaining compliance with directives from ACEH. Additional information about the USTCF can be found below in the attachments to this letter.

#### **TECHNICAL REPORT REQUEST**

Please submit the following deliverable to ACEH (Attention: Mark Detterman), according to the following schedule:

- **December 19, 2011** – Missing Reports, Data, and Correspondence
- **January 30, 2012** – Work Plan with SCM and Preferential Pathway Survey
- **60 Days After Work Plan Approval** – Soil and Groundwater Investigation Report

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

Should you have any questions, please contact me at (510) 567-6876 or send me an electronic mail message at [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org).

Sincerely,



Digitally signed by Mark E. Detterman  
DN: cn=Mark E. Detterman, o, ou,  
email,c=US  
Date: 2012.01.06 10:52:47 -08'00'

Mark Detterman, PG, CEG  
Senior Hazardous Materials Specialist

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

cc: Mr. Markus Niebanck, Emeryville Redevelopment Agency, 1333 Park Ave. Emeryville, CA 94608  
(sent via electronic mail to [mniebanck@ci.emeryville.ca.us](mailto:mniebanck@ci.emeryville.ca.us))

Donna Drogos, ACEH, (sent via electronic mail to [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org))  
Mark Detterman, ACEH, (sent via electronic mail to [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org))  
Geotracker, Case Electronic 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.waterboards.ca.gov/water\\_issues/programs/ust/electronic\\_submittal/](http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)).

**PERJURY STATEMENT**

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

**PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS**

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

**UNDERGROUND STORAGE TANK CLEANUP FUND**

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

**AGENCY OVERSIGHT**

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



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

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

## REQUIREMENTS

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

RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

## Submission Instructions

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





**Carryl MacLeod**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
6101 Bollinger Canyon Road  
San Ramon, CA 94583  
Tel (925) 790-6506  
cmacleod@chevron.com

Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: Former Chevron Service Station No. 371572  
3645 San Pablo Avenue  
Emeryville, CA

I have reviewed the attached letter dated August 31, 2012.

I agree with the conclusions and recommendations presented in the referenced letter. The information in this letter is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This letter was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in cursive script that reads "Carryl MacLeod".

Carryl MacLeod  
Project Manager

Attachment: Letter



**CONESTOGA-ROVERS  
& ASSOCIATES**

5900 Hollis Street, Suite A  
Emeryville, California 94608  
Telephone: (510) 420-0700 Fax: (510) 420-9170  
<http://www.craworld.com>

August 31, 2012

Mr. Mark Detterman  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: Former Chevron Service Station 351572  
3645 San Pablo Avenue  
Emeryville, California  
Fuel Leak Case No. RO00030368

Dear Mr. Detterman:

This is to inform you that Conestoga-Rovers & Associates (CRA) on behalf of Chevron Environmental Management Company (Chevron) is currently looking into the items outlined in Alameda County Environmental Health's (ACEH) letter dated January 6, 2012. After CRA has researched the records available, CRA will provide an updated schedule to ACEH for submittal of the requested items.

If you have any questions or concerns, please contact Carryl MacLeod of Chevron at 925-790-6506 or Nathan Lee of CRA at 510-420-3333 or [nlee@craworld.com](mailto:nlee@craworld.com).

Regards,

CONESTOGA-ROVERS & ASSOCIATES

Nathan Lee

NL/mws/1

cc: Ms. Carryl MacLeod, Chevron  
Dan Vic Diversified, LLC  
Placeworks, LLC  
Mr. Markus Niebanck, City of Emeryville Redevelopment Agency

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ATTACHMENT B

PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION

## **PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATION**

### ***February 2002 Phase I Environmental Site Assessment***

A Phase I Environmental Site Assessment (ESA) was conducted on the site on behalf of the City of Emeryville, California Redevelopment Agency in February of 2002. The purpose of the site assessment was to evaluate specific existing, potential, or suspect conditions that may impose an environmental liability. Based on review of historic aerial photographs and sanborn maps, the subject site was occupied by a fueling station from 1947 to sometime before 1969 when the site appears to be vacated of the dispenser islands and structures. Sometime before 1975 the site was re-developed as a convenience/liquor store and no significant changes had been made to the site since. Additional information is available in Ninyo & Moore Geotechnical and Environmental Sciences Consultant's (Ninyo & Moore) February 6, 2002 *Phase I ESA*.

### ***February 2004 Phase II Environmental Site Assessment***

A Phase II ESA was completed on behalf of the City of Emeryville, California Redevelopment Agency that included a subsurface evaluation of the site parking lot and consisted of a geophysical survey and the advancement of soil borings (B-1 through B-5). No underground storage tanks (USTs) were located during the geophysical survey; however the area of a possible excavation was identified. Analytical data from soil samples did not contain concentrations above regulatory guidelines. Borings were not advanced to groundwater. Additional information is available in Ninyo & Moore's March 30, 2004 *Phase II ESA*.

### ***July and August 2009 Subsurface Investigation and Remedial Activities***

During grading activities for a new building onsite, stained and odorous soil was encountered at two locations onsite (excavation #1 and #2). At this time the convenience/liquor store had been demolished and the site was vacant. CRA does not have any documentation or dates of the store demolition. The nature and extent of contamination was investigated, and approximately 153 tons (95 cubic yards) of soil was excavated and removed from the site. Borings were not advanced to groundwater. Additional information is available in Northgate's November 9, 2009 *Remedial Action Report* which was prepared for Placeworks LLC.

*December 2009 UST abandonment and soil sampling*

During the installation of the fire line main, an abandoned UST was encountered in the southwest corner of the site. The UST was cleaned and properly abandoned in place by Cornerstone Environmental Contractors, Inc. Northgate collected one soil sample (UST-1-6.0) from approximately 2 feet below the bottom of the abandoned UST, at approximately 5.5 - 6 feet below grade (fbg). Additional information is available in Northgate's January 7, 2010 *UST Soil Sampling Test Results* which was prepared for Placeworks LLC.

ATTACHMENT C

STANDARD FIELD PROCEDURES FOR SOIL BORINGS

## STANDARD FIELD PROCEDURES FOR SOIL BORINGS

This document presents standard field methods for drilling and sampling soil borings and installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

### **SOIL BORINGS**

#### **Objectives**

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the ASTM D2488-06 Unified Soil Classification System by a trained geologist working under the supervision of a California Professional Geologist (PG).

#### **Soil Boring and Sampling**

Prior to drilling, the first 8 feet of the boring are cleared using an air or water knife and vacuum extraction or hand auger. This minimizes the potential for impacting utilities. Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

#### **Sample Analysis**

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4° C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

#### **Field Screening**

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.



**Water Sampling**

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected from the open borehole using bailers. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

**Grouting**

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

**Waste Handling and Disposal**

Soil cuttings from drilling activities are usually stockpiled onsite and covered by plastic sheeting. At least three individual soil samples are collected from the stockpiles and composited at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples in addition to any analytes required by the receiving disposal facility. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Groundwater removed during development and sampling is typically stored onsite in sealed 55-gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Upon receipt of analytic results, the water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.