

Atlantic Richfield Company (a BP affiliated company)

P.O. Box 1257 San Ramon, California 94583 Phone: (925) 275-3801

Fax: (925) 275-3815

30 March 2009

Re: Work Plan for Soil & Ground-Water Investigation

Former Richfield Oil Company Service Station #472 6415 International Boulevard, Oakland, California

ACEH Case #RO0002982

"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."

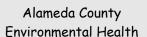
Submitted by:

Paul Supple

Environmental Business Manager



1:45 pm, Apr 01, 2009





Work Plan for Soil & Ground-Water Investigation Former Richfield Oil Company Service Station #472 6415 International Boulevard, Oakland, California

Prepared for

Mr. Paul Supple Environmental Business Manager Atlantic Richfield Company P.O. Box 1257 San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212 Chico, California 95926 (530) 566-1400 www.broadbentinc.com

30 March 2009

Project No. 09-88-601



30 March 2009

Job No. 09-88-601

Mr. Paul Supple Environmental Business Manager Atlantic Richfield Company (a BP affiliated company) PO Box 1257 San Ramon, California 94583 Submitted via ENFOS

RE: Work Plan for Soil & Ground-Water Investigation Former Richfield Oil Company Service Station No. 472 6415 International Boulevard, Oakland, California; ACEH Case No. RO0002982

Dear Mr. Supple,

Broadbent & Associates, Inc. (BAI) is pleased to present this *Work Plan for Soil & Ground-Water Investigation* for additional subsurface characterization at the Former Richfield Oil Company Service Station No. 472, located at 6415 International Boulevard, Oakland, California (Site). BAI prepared this work plan in response to the 29 January 2009 letter request from Mr. Paresh Khatri of Alameda County Environmental Health (ACEH).

Should you have any questions concerning this work plan, please do not hesitate to contact us at (530) 566-1400.

ROBERTH

MILLER No. 561

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.

Senior Engineer

cc:

Robert H. Miller, P.G., C.HG.

Principal Hydrogeologist

Mr. Paresh Khatri, ACEH (Submitted via ACEH ftp site)

Electronic copy uploaded to GeoTracker

NEVADA ARIZONA CALIFORNIA TEXAS

WORK PLAN FOR SOIL & GROUND-WATER INVESTIGATION

Former Richfield Oil Company Service Station No. 472 6415 International Boulevard, Oakland, California Fuel Leak Case No. RO0002982

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WORK PLAN FOR SOIL & GROUND-WATER INVESTIGATION

Former Richfield Oil Company Service Station No. 472 6415 International Boulevard, Oakland, California Fuel Leak Case No. RO0002982

1.0 INTRODUCTION

Broadbent & Associates, Inc. (BAI) is pleased to present this *Work Plan for Soil & Ground-Water Investigation*, for additional subsurface characterization at the Former Richfield Oil Company Service Station No. 472, located at 6415 International Boulevard, Oakland, California (Site). BAI prepared this work plan in response to the 29 January 2009 letter request from Mr. Paresh Khatri of Alameda County Environmental Health (ACEH). Specifically, the ACEH letter requested the conduct of a subsurface investigation to determine the vertical and lateral extent of soil and ground-water contamination at the Site. A copy of recent regulatory correspondence for this Site is contained in Appendix A. This work plan includes brief discussions on the Site background and previous investigations, regional and Site geology and hydrogeology, proposed scope of work, and completion schedule.

2.0 SITE BACKGROUND

The Site is a former liquor store located on the south corner of the intersection of International Boulevard and 64th Avenue in Oakland, California (Drawing 1). The Site is located in a mixed residential and commercial area. Site improvements consist of a single-story building with two metal storage containers and predominantly covered with concrete and asphalt. The Site is located on property recognized by Alameda County as Assessors Parcel Number (APN) 41-4050-21. This approximately 0.27 acre parcel is located on the south west side of International Boulevard. The Site is located in Section 16, Township 2 South, Range 3 West, relative to the Mount Diablo Baseline and Meridian of Northern California. The Site can be located on the Oakland East, California 7½-minute topographic quadrangle map of the United States Geological Survey (USGS). A Site Location Map is presented as Drawing 1.

In 1947, Richfield Oil Company purchased the property for the construction of a service station with completion taking place in 1949. The service station was operated by various Richfield Oil Company dealers from 1949 to 1970. In 1966 two 4,000 gallon and one 6,000 gallon replacement underground storage tanks (USTs) were installed on the property. Richfield Oil Company sold the property in 1971 to the Nattrass Corporation.

In May 2007, AAI Environmental Corporation (AAI) conducted a Phase I Environmental Site Assessment (ESA) on the property. Work performed for Mr. Marcelo Bermudez of Freeman included review of environmental and regulatory databases and site reconnaissance prior to selling the property. AAI reported that one or two USTs were previously removed from the northeast corner of the property prior to 1976, but no soil sampling data or removal report were found to confirm the information given that no such sampling and reporting information was likely required at that time. The AAI site reconnaissance reportedly did not identify any potential concerns. However, AAI recommended a limited Phase II Environmental Site Assessment on the property to assess the former presence of the USTs.

In April 2008, GEOCON conducted a Limited Phase II Environmental Site investigation on the Site. Work was performed for Ms. Holly Moore of DGC Associates to assess the presence or absence of subsurface contamination. Work included the advancement of six soil borings (SB-1 through SB-6). Soil samples were collected from each boring and ground-water samples were collected from borings SB-1, SB-2, SB-3 and SB-5. Soil boring SB-1 was drilled on the backside of the property to assess the potential for off-site contaminant migration. Borings SB-2, SB-3, SB-5 and SB-6 were advanced in the area suspected of containing the former USTs. SB-4 was advanced to assess a former pump island. Soil samples from borings SB-1 through SB-6 contained Total Petroleum Hydrocarbons in the Gasoline Range (TPH-G) at concentrations up to 95 milligrams per kilogram (mg/kg), Total Petroleum Hydrocarbons in the Diesel Range (TPH-D) at concentrations up to 20 mg/kg, and Total Petroleum Hydrocarbons in the Motor Oil Range (TPH-MO) at concentrations up to 51 mg/kg. Ground-water samples from borings SB-1, SB-2, SB-3 and SB-5 contained TPH-G at concentrations up to 8,100 micrograms per liter (μg/L), TPH-D at concentrations up to 7,200 μg/L, and TPH-MO at concentrations up to 180 µmg/L. No concentrations of Benzene, Toluene, Ethylbenzene, or Xylenes (BTEX) were detected above the laboratory reporting limits in the soil or ground-water samples collected. Soil boring logs and tabulated analytical results from this investigation are provided within Appendix B. In a letter dated 29 January 2009, ACEH requested completion of an Unauthorized Release Report (URR), and SWI work plan. A copy of the URR is provided in Appendix C

3.0 SITE GEOLOGY AND HYDROGEOLOGY

According to the *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report* (California Regional Water Quality Control Board – San Francisco Bay Region/SFRWQCB, June 1999), the Site is located within the Oakland Sub-Area of the East Bay Plain of the San Francisco Basin. The Oakland Sub-Area contains a sequence of alluvial fans. The alluvial fill thickness ranges from 300 to 700 feet deep. There are no well-defined aquitards such as estuarine muds. The largest and deepest wells in this sub-area historically pumped one to two million gallons per day at depths greater than 200 feet. Overall, sustainable yields are low due in part to low recharge potential. The Merrit sand in West Oakland was an important part of the early water supply for the City of Oakland. It is shallow (up to 60 feet), but before the turn of the last century, septic systems contaminated the water supply wells.

Throughout most of the Alameda County portion of the East Bay Plain, from Hayward north to Albany, water level contours show that the general direction of ground-water flow is from east to west or from the Hayward Fault to the San Francisco Bay. Ground-water flow direction generally correlates to topography. Flow direction and velocity are also influenced by buried stream channels that typically are oriented in an east to west direction. The nearest natural drainage is Lion Creek, located approximately 0.43 miles southwest of the Site. Lion Creek flows generally northeast to southwest near the Site vicinity. The San Leandro Bay is located approximately 1.1 miles west of the Site.

The Site elevation is approximately 24 feet above mean sea level. Based on data collected during the Phase II investigation, static ground-water on-site was encountered at approximately nine feet bgs. No historical ground-water gradient, or flow direction data is available for the Site.

According to the East Bay Plain Groundwater Basin Beneficial Use Evaluation Report, the City of Oakland does not have "any plans to develop local ground-water resources for drinking water purposes, because of existing or potential saltwater intrusion, contamination, or poor or limited quantity." However, the RWQCB's Basin Plan denotes existing beneficial uses of municipal and domestic supply (MUN), industrial process supply (PROC), industrial service supply (IND), and agricultural supply (AGR) for the East Bay Plain ground-water basin.

According to soil boring logs from the Phase II investigation, soils encountered at the Site generally consisted of sand and silty clay with clayey gravel being encountered in some borings. Gravelly sand was observed at depths between approximately six and 12 feet bgs. In soil boring SB-5, 10 feet of fill was observed. Due to the presence of the fill, SB-5 is within the assumed location of a former UST(s). Ground water was initially encountered during drilling activities at approximately 21 feet bgs and rose to approximately 9 feet bgs within the borings. Copies of the boring logs are included in Appendix B.

4.0 MONITORING WELL INSTALLATION

4.1 Proposed Well Installation Locations

To characterize the extent of ground-water contamination, BAI proposes to have Stratus Environmental Inc. (Stratus), under direct contract to Atlantic Richfield Company, install three ground-water monitoring wells. The proposed ground-water monitoring wells are to be identified as MW-1, MW-2 and MW-3. Well MW-1 is proposed to be located approximately 5 feet southwest of the sidewalk on International Boulevard and centered in the concrete area in front of the building. Assuming a ground-water flow direction towards the southwest, this upgradient well MW-1 will be located northeast of SB-4 and the former fuel dispenser island. Well MW-2 is proposed to be located approximately 10 feet in from the sidewalk on 64th Avenue and from the back of the property, southwest of SB-5 and assumed location of the former USTs. Well MW-3 is proposed to be located in the south corner of the property approximately 20 feet in form the back of the property and former store. The proposed locations for these new wells are shown on Drawing 2.

4.2 Preliminary Activities, Local Permitting and Notification

Broadbent & Associates, Inc., on behalf of Atlantic Richfield Company, already has acquired a fully executed access agreement. Prior to initiating field activities, Stratus will obtain the necessary well permits from Alameda County; prepare a site health and safety plan (HASP) for the proposed work; clear the Site for subsurface utilities; and provide 72-hour advance written notification to ACEH (email preferred to paresh.khatri@acgov.org) and BAI (email tvenus@broadbentinc.com or mobile phone 530-588-5887) prior to the start of field activities. The utility clearance will include notifying Underground Service Alert (USA) of the pending work a minimum of 48 hours prior to initiating the field investigation, and securing the services of a private utility locating company to confirm the absence of underground utilities at each boring location. Boreholes will be physically cleared to 6.5 feet bgs using hand auger or air knife methods, in accordance with the BP ground disturbance defined practice.

The Site-specific HASP will be prepared for use by personnel implementing the work plan. The HASP will address the proposed boring and monitoring well installations. A copy of the HASP

will be available on-site during work. The subcontractor(s) performing field activities will be provided with a copy of the HASP prior to initiating work. A safety tailgate meeting will also be conducted daily to review the Site hazards and drilling work scope.

4.3 Proposed Soil Borings

At the request of ACEH, the purpose of the proposed soil investigation is to determine the vertical and lateral extent of soil and ground-water contamination. Site soil conditions have been previously characterized in the Phase II site investigation, as described in the Site Background section. Specifically, the ACEH letter references elevated total petroleum hydrocarbon concentrations observed indicating that the soil and ground-water are impacted. Analytical results and soil boring logs depicting the boring locations from this previous investigation are provided in Appendix B.

A Stratus field geologist will observe a California-licensed drilling company advance the soil borings using a hollow-stem auger drilling rig to a total approximate depth of 22 feet bgs. The Phase II Investigation reported depth to first-encountered water measurements of 21 feet in borings SB-1 and SB-2, 26 feet in boring SB-3, and 14 feet in boring SB-5. Soils will be classified according to the Unified Soil Classification System (USCS), and will be examined using visual and manual methods for parameters including odor, staining, color, grain size, and moisture content. Soil samples will be collected at 1.5-foot intervals, beginning at a depth of 6.5 feet bgs following borehole clearance, until ground water is encountered (anticipated to be 6.5, 8, and possibly 9.5 and 11 ft bgs, depending upon the encountered depth of ground water). The soil samples will be submitted to the laboratory for chemical analysis.

The samples will be submitted under chain-of-custody protocol to Calscience Environmental Laboratories, Inc. (Garden Grove), a California State-certified environmental laboratory. The soil samples will be analyzed for the following: Gasoline Range Organics (GRO, C6-12), Diesel Range Organics (DRO, C12-C28) and Oil Range Organics (ORO, C26-C40) by EPA Method 8015B and BTEX by EPA Method 8260. Oxygenates are not included in the proposed soil analysis schedule due to the age of the former release.

Investigation-derived residuals will be temporarily stored on-site in 55-gallon drums, pending characterization for proper disposal. Stratus will coordinate the transportation and disposal of surplus soils and liquids to the appropriate California-regulated facilities.

4.4 Monitoring Well Construction

The wells will be constructed of threaded 4-inch diameter, Schedule 40 poly-vinyl chloride (PVC) and screened with 0.010-inch machine-cut slots. The total depth and screen interval was proposed from looking at the depth of water and the well construction on the UNOCAL #3135 Station (T0600101488) downhill of the Site and Grimit Auto Repair & Service (T0600100667) uphill of the Site. Proposed monitoring wells MW-1, MW-2 and MW-3 will contain screened intervals from 7 feet bgs to 22 feet bgs, the total depth of each well. A filter pack consisting of No.2/12 sand will be installed from total depth to two feet above the top of the well screen, which will be overlain by three feet of bentonite, and bentonite-cement grout to the surface. A traffic-rated locking vault will be installed to protect the well head.

4.5 Monitoring Well Development and Sampling

At least 48 hours after well installation the new wells will be developed. The well development process will consist of surging and bailing the well to remove fine-grained sediments from the well and sand filter pack. A minimum of three and a maximum of ten wetted casing volumes of ground water will be removed until water quality parameters have stabilized. Periodic measurements of the water quality parameters pH, temperature, conductivity, and turbidity will be recorded during the development to establish baseline values for ground water. Purge water generated during development activities will be handled according to BP protocols and procedures.

After well development, the monitoring wells will be surveyed. A California-licensed Professional Land Surveyor will be scheduled to survey the well heads for top of casing elevation with respect to mean sea level, and for lateral position using northings and eastings per NAD'88. Survey information will be uploaded to GeoTracker.

The wells will be sampled no sooner than 48 hours after well development. The sampling procedure for the wells consists of first measuring the water level and depth to bottom, and checking for the presence of separate phase hydrocarbons (free product) using an electronic oil-water interface probe. If the well does not contain free product, it will be purged of approximately three wetted casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. During purging, temperature, pH, and electrical conductivity will be monitored to document that these parameters have stabilized prior to collecting samples. After purging, water levels will be allowed to partially (at least 80%) recover. Ground-water samples will be collected using a dedicated disposable bailer, placed into appropriate Environmental Protection Agency (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to the laboratory. Sample labels will include sample name, sampling time and date, analytical methods, and sampler's initials. If the well contains free product, it will not be sampled and free product will be removed according to California Code of Regulations, Title 23, Division 3, Chapter 16, Section 2655, UST Regulations.

Ground-water samples will be analyzed for the following: GRO, DRO, and ORO by EPA Method 8015B; for BTEX, tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Diisopropyl ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Ethanol, Ethyl tert-butyl ether (ETBE), and MTBE by EPA Method 8260.

4.6 Well Installation Report

Upon completion of field activities and receipt of the certified field data package (including copies of permits, field data sheets, boring logs, and the laboratory analytical report with chain-of-custody documentation), BAI will prepare a Soil and Ground-Water Investigation Report. The report will document the results of the investigation, field activities, copies of required permit(s), copies of field notes, soil boring and well construction logs, laboratory analytical reports with copies of chain-of-custody records, discussion of findings, conclusions and recommendations. Deviations from the work plan or data inconsistencies will be discussed in the report.

5.0 PROPOSED SCHEDULE

The schedule for the above-noted work shall proceed as follows:

- <u>Implement Onsite Soil Investigation</u> Upon approval of this work plan and obtaining the necessary permits.
- <u>Submittal of Soil & Water Investigation Report</u> Within 60 days after completion of fieldwork.

In accordance with direction received from ACEH in their letter of 29 January 2009 (provided within Appendix A).

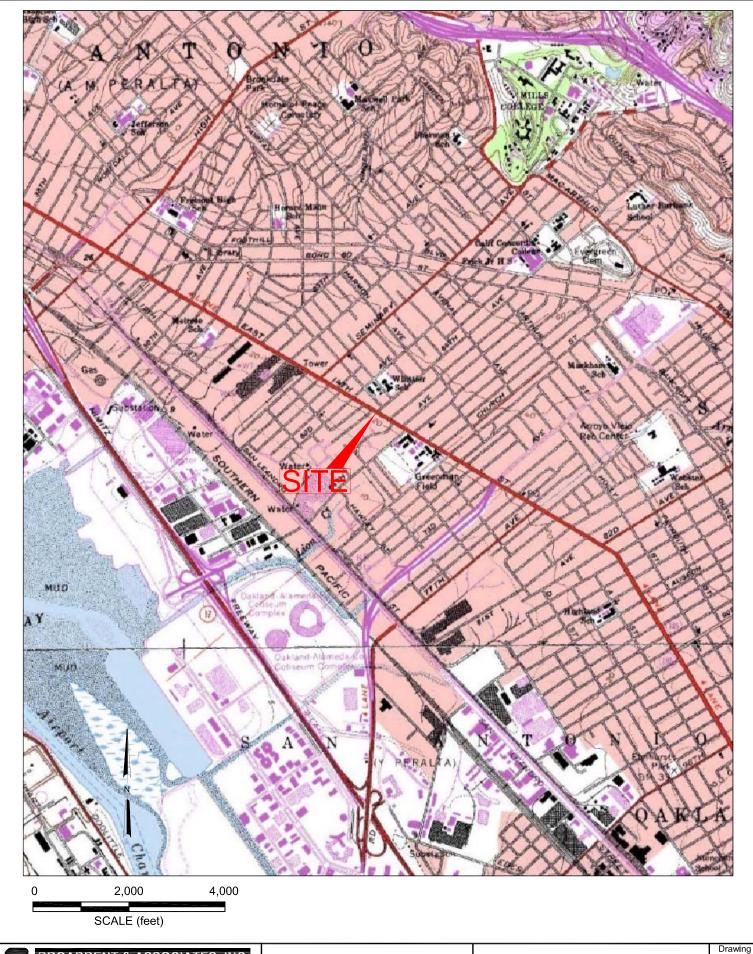
6.0 CLOSURE

The findings presented in this document are based upon: observation of field personnel from previous consultants, the points investigated, and results of laboratory tests performed by various laboratories. Our services were performed in accordance with the generally accepted standard of practice at the time this document was written. No other warranty, expressed on implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

7.0 REFERENCES

GEOCON, 7 May 2008. Limited Soil and Grab Groundwater Sampling Report, Plucky's Liquors/Former Gasoline Station, 6415 International Boulevard, Oakland, California. Prepared for Ms. Holly Moore, DGC Associates.

AAI, 9 May 2007. Phase I Environmental Site Assessment Report, Former Gasoline Station Pluckey's Liquors, 6415 International Boulevard, Oakland, California. Prepared for Mr. Marcelo Bermudez, Freeman.



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1324 Mangrove Ave. Suite 212, Chico, California

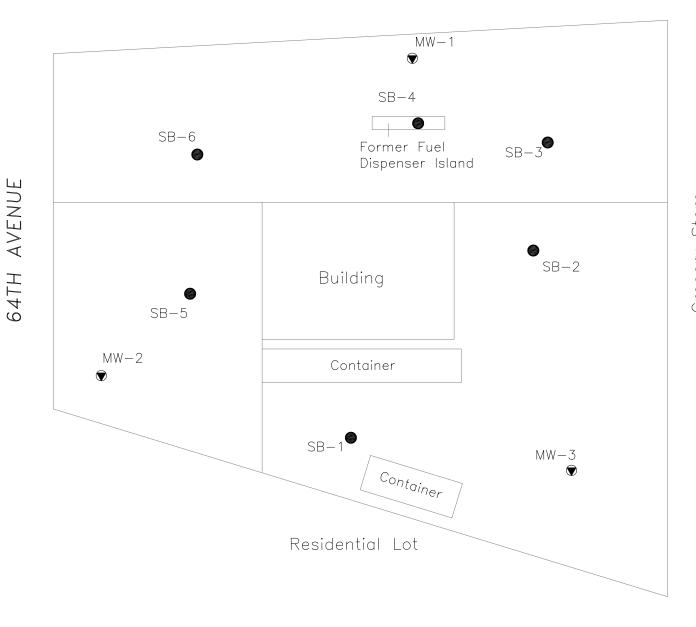
Project No.: 09-88-601 Date: 3/18/09

Former Service Station #472 6415 International Boulevard Oakland, California

Site Location Map

1

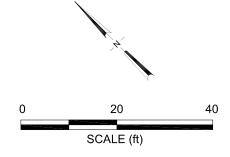
INTERNATIONAL BOULEVARD



LEGEND

- Proposed Monitoring Well
- Phase II Soil Boring

NOTES: SITE MAP ADAPTED FROM GEOCON FIGURES.
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1324 Mangrove Ave. Suite 212, Chico, California

Project No.: 09-88-601 Date: 3/18/09

Former Service Station #472 6415 International Boulevard Oakland, California

Site Map with Proposed Monitoring Well Locations

Drawing

2

APPENDIX A. RECENT REGULATORY CORRESPONDENCE

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



DAVID J. KEARS, Agency Director

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

January 29, 2009

Tracey Campbell 307 W. Fairview Blvd Inglewood, CA 90302

Jaleeza Hazzard 1722 Virginia Road Los Angeles, CA 90012

Paul Supple Atlantic Richfield Company (A BP Affiliated Company) P.O. Box 1257 San Ramon, CA 94583 James J. Weiss 6 Lagoon Vista Tiburon, CA 94920

Fabian A. Labat, Jr. William C. Dixon Address Unknown

Pluckey, Inc. Address Unknown

Subject: Fuel Leak Case No. RO0002982 and GeoTracker Global ID T10000000417, ACRO # / Pluckey's Liquors, 6415 International Boulevard, Oakland, CA 94621

Dear Responsible Parties:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the abovereferenced site including the recently submitted document entitled, "Limited Soil and Grab Groundwater Sampling Report," dated May 7, 2008, which was prepared by Geocon Consultants for the subject site. The report documents a Phase II subsurface investigation conducted to determine soil and groundwater quality at the subject site due to the its previous use as a gasoline station that utilized underground storage tanks. Geocon advanced six soil borings and collected soil and groundwater samples. Total petroleum hydrocarbons (TPH) as gasoline (g), diesel (d), and motor oil (mo) were detected in soil samples at maximum concentrations of 95 milligrams per kilogram (mg/kg), 20 mg/kg, 51 mg/kg, respectively, indicating that the soil has been impacted with petroleum hydrocarbons. "Grab" groundwater sample analytical results detected TPH-g, TPH-d, TPH-mo at maximum concentrations of 8,100 µg/L, 7,200 µg/L, and 180 μg/L, respectively, indicating that the groundwater has also been impacted with petroleum hydrocarbons. Please complete and submit an Underground Storage Tank Unauthorized Release Form (available online at http://www.swrcb.ca.gov/ust/forms/docs/unauth_release.pdf) within 30 days from the date of this letter. A Notice of Responsibility will be mailed to you within 15 days from the date of this letter.

Based on the analytical results, a subsurface investigation is required to determine the vertical and lateral extent of soil and groundwater contamination. It is recommended that a series of borings are installed prior to the installation of permanent groundwater monitoring points.

ACEH requests that you address the above-mentioned concerns and send us the technical work plan requested below.

Responsible Parties RO0002982 January 29, 2009, Page 2

TECHNICAL REPORT REQUEST

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

- March 2, 2009 Unauthorized Release Form
- March 30, 2009 Soil and Water Investigation Work Plan

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_rgmts.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

Responsible Parties RO0002982 January 29, 2009, Page 3

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.

If you have any questions, please call me at (510) 777-2478 or send me an electronic mail message at paresh, khatri@acgov.org.

Sincerely,

Paresh C^{l.} Khatri

Hazardous Materials Specialist

Donna L. Drogos, PÈ

Supervising Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

List of Environmental Consultants

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA

94612-2032

Donna Drogos, ACEH Paresh Khatri, ACEH

File

APPENDIX B.

TABULATED ANALYTICAL RESULTS AND SOIL BORING LOGS FROM PHASE II INVESTIGATION

Table 1
Summary of Soli Sample Results
Plucky's Liquors / Former Gasoline Station
6415 International Blvd.
Oakland, California

Boreboie	Collection	Depth	TPH:	TPHd	TPHano	Benzene	Toluens	Ethylbenzene	Total Xylenes
Location	Date	(feet bgs)	(maka)	(mykg)	(mg/kg)	(ng/kg)	(u <u>e/ku)</u>	(ug/kp)	(ug/kg)
SB-1	4/22/2008	15	7.3	6.3	5.5	<5.0	<5.0	<5.0	<15
SB-2	4/22/2008	16	21	2.6	3.5	<5.0	<5.0	<5.0	<15
SB-2	4/22/2008	20	<1.0	20	51	<5.0	<5.0	<5.0	<15
SB-3	4/22/2008	13	<1.0	5.8	5.8	<5.0	<5.0	<5.0	<15
SB-3	4/22/2008	20	<1.0	<1.0	1.6	<5.0	<5.0	<5.0	<15
SB-4	4/22/2008	8	<1.0	4.6	6.2	<5.0	<5.0	<5.0	<15
SB-5	4/22/2008	16	<1.0	7.6	63	<5.0	<5.0	<5.0	<15
SB-6	4/22/2008	14	95 <1.0 <1.0	7.8	4.4	<2.5	<25	<25	<75
SB-6	4/22/2008	20		1.5	4.0	<5.0	<5.0	<5.0	<15
SB-6	4/22/2008	31		3.2	2.7	<5.0	<5.0	<5.0	<15

Table 2 Summary of Grab Groundwater Sample Results Plucky's Liquors / Former Gasoline Station 6415 International Bivd. Oakland, California

Borchole Location	Collection Date	Depth (feet bus)	TPHg (mg/l)	TPHd (mgA)	Ti'Himo (mg/l)	Benzene (mg/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes
SB-1	4/22/2008	21	0.080	0.076	0.11	<0.50	<0.50	<0.50	<1.5
SB-2	4/22/2008	21	1.5	0.71	0.13	<0.50	<0.50	<0.50	<1.5
SB-3	4/22/2008	26	8.1	7.2	0.15	<5.0	<5.0	<5.0	<15
SB-5	4/22/2008	14	0.14	0.13	0.18	<0.50	<1.50	<0.50	~1.5

NOTES:

TPHg- Total Petroleum Hydrocarbons as Gasoline

TPHd - Total Petroleum Hydrocarbons as Diesel

TPHmo - Total Petroleum Hydrocarbons as Motor Oil

mg/kg- Milligrams per kilogram

ug/kg- Micrograms per kilogram

mg/l - Milligrams per liter

ug/l - Micrograms per liter

PROJECT NO. E8448-06-01 BORING NO. SB-1 PENETRAT RESIST BLOWSFT THECOGY SAMPLE NO son. HEADSPACE WATER LEVEL (ATD) " DATE DRILLED _4/22/08 (PPM) (USCS) DRILLER___ GEOPROBE EQUIPMENT __ SOIL DESCRIPTION ASPHALT AND BASE ROCK 1 Stiff, moist, black, fine Sandy CLAY, low to medium CL. plasticity, no odor 3 5 6 Stiff, moist, olive, medium Sandy CLAY, low plasticity, no CL 7 odor Dense, moist to very moist, olive, Clayey coarse angular GC 8 ☑ GRAVEL, no odor 9 10 11 Stiff, moist, yellowish red with light green, Sandy CLAY, low to medium plasticity, no odor CL 12 13 Dense, moist, pale green, Clayey GRAVEL, with coarse angular sand, slight plasticity, slight odor Firm to soft, moist, brown, Silty CLAY, low to medium OC 14 CL 15 plasticity, no odor 16 17 18 19 20 Soft, very moist, brown, Silty CLAY, with interbedded clayey fine sand, low to medium plasticity, no odor CL 21

Figure 1, Log of Boring SB-1, page 1 of 1

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24

ENV_NO_WELL PLUCKYS BORINGS.CPJ 05/06/08

BORING ELEVATION:	ENGINEER/GEOLOGIST: JOHN LOVE

BORING TERMINATED AT 24 FEET

PROJECT NO. E8448-06-01

BORING NO. SB-2 DATE DRILLED 402/08 WATER LEVEL (ATD) FQUIPMENT GEOPROBE DRILLER En Prob SOIL DESCRIPTION ASPHALT Stiff, moist, black, fine Sandy CLAY, low to medium plasticity, no odor Stiff, moist, olive, medium Sandy CLAY, low plasticity, no GC Dense, moist to very moist, olive, Clayey coarse angular GC Stiff, moist, vellowish red with light green, Sandy CLAY, low to medium plasticity, no odor Stiff, moist, vellowish red with light green, Sandy CLAY, low to medium plasticity, no odor Stiff, moist, pellowish red with light green, Sandy CLAY, low to medium plasticity, no odor Stiff, moist, pellowish red with light green, Sandy CLAY, low to medium plasticity, no odor Stiff, moist, pellowish red with light green, Sandy CLAY, low to medium plasticity, pellowing dor Firm to soft, moist, brown, Sity CLAY, low to medium plasticity, petroleum odor Soft, very moist, brown, Sity CLAY with interbedded clayey CL Soft, very moist, brown, Sity CLAY with interbedded clayey CL Soft, very moist, brown, Sity CLAY with interbedded clayey CL Soft, very moist, brown, Sity CLAY with interbedded clayey CL	PROJECT NO.	E8448-06-		1	
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- 16 - 17 - 18 - 19 - 20 - 21 - 21 - 22 - Soft, very moist, brown, Silty CLAY with interbedded clayey CL fine sand, petroleum odor			The second second clavery CRAVEL with coarse	GC	
- 16 - 17 - 18 - 19 - 20 - 21 - 21 - 22 - Soft, very moist, brown, Silty CLAY with interbedded clayey CL fine sand, petroleum odor			angular sand, slight plasticity, petroleum odor	CL	
- 17 - 18 - 19 - 20 - 21 - 21 - Soft, very moist, brown, Silty CLAY with interbedded clayey CL fine sand, petroleum odor			plasticity, petroleum odor	8946	audicus accodability (c
- 18 - 19 - 20 - 21 - Soft, very moist, brown, Silty CLAY with interbedded clayey CL fine sand, petroleum odor				stone .	SOLUTION CONTROL OF THE PARTY O
- 19 - 20 - 21 - Soft, very moist, brown, Silty CLAY with interbedded clayey CL fine sand, petroleum odor					9
Soft, very moist, brown, Silty CLAY with interbedded clayey CL fine sand, petroleum odor				-	
fine sand, petroleum odor	20				00000000000000000000000000000000000000
fine sand, petroleum odor	21 -		Soft, very moist, brown, Silty CLAY with interbedded clayey	CL	\$2,07 pages
23 -	- 22	The state of the s	fine sand, petroleum odor		
	- 23 -		22 3	***	Wishester tet
BORING TERMINATED AT 24 FEET	- 24 -		BORING TERMINATED AT 24 FEET		

Figure 2, Log of Boring SB-2, page 1 of 1

ENV_NO_WELL PLUCKYS BORINGS.GPJ 05/06/08

	ENGINEER/GEOLOGIST:	JOHN LOVE
BORING ELEVATION:	EI40D4EE140D6B6 cts.	

PROJECT NO. E8448-06-01

PROJECTI	NO.	£8448-	U 0-U I		- i	
DEPTH IN FEET PENETRAT.	RESIST. BLOWS/FT.	SAMPLE NO,	ЫТНОСОВУ	BORING NO. SB-3 DATE DRILLED 4/22/08 WATER LEVEL (ATD) EQUIPMENT GEOPROBE DRILLER En Prob	SOIL (USCS)	HEALISPACE (PPM)
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	***************************************					**************************************
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7 -	***************************************	are entire enterent e		Dense, moist, brown, Clayey GRAVEL with angular sand and gravel, no odor	GC	e DO PRINCIPA DE CONTROL PORTO DE CONTRO
8 -	2000			Firm, moist, reddish yellow, Sandy CLAY, low to medium	CL	
10 -	***************************************	and the second s			Granivatensky a kontrol	- White and distribution
<u> </u>	, and the same of		VZ	Stiff, moist, pale green, Sandy CLAY, medium plasticity, no odor	CL	***************************************
12	enester en	eene errenessaar		Moist, Gravelly SAND with some clay and interbedded brick fragments, petroleum odor	SW	The state of the s
w 14 ···	Arthebooks (Selbespanness	71207200	**	-	Andreas Andrea	eneconomical and a seconomical
15				, and	Para services	живномоноваж
16				Stiff, moist, brown, Silty CLAY, medium plasticity, no odor	CL CL	enenta Archanol de la constanta
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- 22 -		and the second				
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Figure 3, Log of Boring SB-3, page 1 of 2

ENV_NO_WELL PLUCKYS BORINGS_GFI 05/06/08

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	ENGINEER/GEOLOGIST: JOHN LOVE
BORING ELEVATION:	ENGINEER/GEOLOGIC JULIU IO III
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the state of the s	The state of the s

PROJEC	CT NO.	E8448-	06-01			
DEFTH PEET	PENETRAT RESIST BLOWSET	S S		BORING NO. SB-3 DATE DRILLED 4/22/08 WATER LEVEL (ATD)	SOU.	HEADSPAC (7PM)
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ALCONOMIC TO THE PARTY OF THE P				SOIL DESCRIPTION	ahabataha in in s airi	
26 - - 27 -				Strong petroleum odor in groundwater		maaadaa daddadadadaya katalayada ahteegori
- 28 -				BORING TERMINATED AT 28 FEET		
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Figure 4, Log of Boring SB-3, page 2 of 2

ENV_NO_WELL PLUCKYS BORINGS.GPI 05/06/08

		ENGINEER/GEOLOGIST:	JOHN LOVE
BORING ELEVATION:	i	ENGINEENGEOLOGIST.	OODI DO L

E8448-06-01 PROJECT NO. BORING NO. SB-4 PENETRAT. RESIST. BLOWS/FT. LITHOLOGY SAMPLE NO. DATE DRILLED 4/22/08 WATER LEVEL (ATD) HEADSPACE (USCS) _ DRILLER ____ GEOPROBE EQUIPMENT ____ SOIL DESCRIPTION ASPHALT AND BASE Ì Stiff, moist, black, Sandy CLAY, medium plasticity, no odor CLĄ Dense, slightly moist, fine Gravelly SAND, variegated, no SWď, 6 Ó 7 BORING TERMINATED AT 8 FEET

Figure 4, Log of Boring SB-4, page 1 of 1

ENV_NO_WELL PLUCKYS BORINGS.GPI 05/06/08

		ENGINEER/GEOLOGIST:	JOHN LOVE	
manage of CIVATIONS	1	FNGINEER/OFCIDOGIST.	OCTIVE TO A TO	
BORING ELEVATION:				

PROJECT NO. E8448-06-01

PROJEC.	Market Commission of the Commi	£8448•	åtitelenskitele lense rtorioren)	BORING NO. SB-5		aller en grousse asperante en construent en transferi
r E	RENET RA	# 2 3	LITHOLOGY	DATE DRILLED 4/22/08 WATER LEVEL (ATD)	šóit.	HEADSPAC
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11 -	A TO THE PERSON NAMED IN COLUMN		1/1/	Soft to stiff, saturated, brown to light green, Silty and Sandy CLAY, low plasticity, slight odor in water, no odor in soil	* ~~	
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13	j		1/X	and the second s		anna ann ann ann ann ann ann ann ann an
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1			200	Dense, moist, variegated Gravelly SAND, fine gravel, well graded sand, no odor	SW	10x W44.0
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16 -				BORING TERMINATED AT 16 FEET	70 T.A. 7 72 T.A	
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Figure 5, Log of Boring SB-5, page 1 of 1

ENV_NO_WELL PLUCKYS BORINGS.GPJ 05/06/08

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manage of the state of the stat	ENGINEER/GEOLOGIST: JOHN LOVE
BORING ELEVATION:	ENGINEDITOROUGH, PORTERNA
	Same and the same

PROJECT NO. E8448-06-01 BORING NO. SB-6 LITHOLOGY SAMPLE NO. DEPTH IN FEET DATE DRILLED 4/22/08 WATER LEVEL (ATD) HEADSPACE (USCS) GEOPROBE DRILLER ___ EQUIPMENT SOIL DESCRIPTION ASPHALT AND BASE į Very stiff, moist, black, Sandy CLAY, low to medium CLplasticity, no odor 3 Dense, moist, brown, Clayey GRAVEL with angular sand, low GC 5 plasticity, no odor 7 Dense, moist, brown, angular Gravelly SAND, no odor SW 8 Stiff, moist, brown with olive, Sandy CLAY, medium CL9 plasticity, no odor 10 11 12 13 Soft 14 Slight petroleum odor 15 Pale green Stiff to very stiff, moist, brown, Silty CLAY, medium CL16 plasticity, no odor 17 18 19 20 21

Figure 6, Log of Boring SB-6, page 1 of 2

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ENV NO WELL PLUCKYS BORINGS.GPJ 05/06/08

٢	BORING ELEVATION:	ENGINEER/GEOLOGIST: J	OHN LOVE

ENER ELEMENT	PENETA RESIS BLOWS	SAMP NO.		DATE DRILLED	4/22/08 W	ATER LEVEL (ATD)		25/12-	HEADSPACE
	를 ^교 등	S.				DRILLER		(1./SCS)	(PFM)
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Figure 7, Log of Boring SB-6, page 2 of 2

ENV_NO_WELL PLUCKYS BORINGS GPI 05/06/08

and a supplemental and a supplem	ENGINEER/GEOLOGIST JOHN LOVE
BORING ELEVATION:	ENGINEER/GEOLOGIST: JOHN LOVE
7-14-14-14-14-14-14-14-14-14-14-14-14-14-	

APPENDIX C. UNAUTHORIZED RELEASE REPORT

	UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/ CONTAMINATION SITE REPORT								
1	RGENCY HAS STA REPORT 'es ⊠ No	TE OFFICE OF EMERGENCY SERVICE BEEN FILED? Yes 🗵 No	FOR LOCAL AGENCY USE ONLY THEREBY CERTIFY THAT DAM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT CHAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PERSUANT TO SECTION 25180.7 OF						
REPORT DATE				THE HEALTH AND SAPETY CODE.					
	NAME OF INDIVIDUAL FILING REPORT		PHONE	SIGNED	SIGNATURE	DATE			
ED BY	Thomas A. Venus, PE			(530) 566-1400 COMPANY OR AGENCY NAME	Man d.	les			
REPORTED BY	☐ LOCAL AGENCY ☐ REGIONAL ☐ OWNER/OPERATOR ☒ OTHER C	BOARD onsultant for potential RP		Broadbent & Associates, Inc.					
řŽ	ADDRESS 1324 Mangrove Ave, Suite 212	SYREET		Chico		CA 95926			
RÉSPONSIBLE PARTY	I/Also Tracey Campbell, Jaleesa Hazzards								
RESP(ADDRESS PO Box 1257	STREET		San Ramon		ZA 94583			
Z	FACILITY NAME (IF APPLICABLE) Former Richfield Oil Co. Station	#472		operator Richfield Oil Company	PHONE UNKNOWN				
SITE LOCATION	ADDRESS 6415 International Boulevard (fo	ormerly East 14th Street)		Oakland only		meda 94621			
SITIS	CROSS STREET 64th Avenue								
S SG	LOCAL AGENCY	PHONE (510) 337-9335							
IMPLEMENTING AGENCIES	Alameda County Health Care Services Agency/Environmental Health Services (ACEHS) REGIONAL BOARD								
HMP	San Francisco Bay Region	(510) 622-2300							
SUBSTANCES	gasoline	QUANTITY LOST (GALLONS) MUNKNOWN							
SUBST	© Unknown								
ERY/ABATEMENT	DATE DISCOVERED 5/7/2008		nk Test entory Co	☐ Tank Removal Subsurface Monito	☐ Nuisance Condi pring ☐ Other	tions			
DISCOV	HAS DISCHARGE BEEN STOPPED? ☑ Yes ☐ No IF YES, DA	unknown		☐ Replace Tank ☐ Other ☐ Repair Piping					
source/ cause	SOURCE OF DISCHARGE CAUSE(S) Tank Leak Piping Leak Unknown Other CAUSE(S) Course(on Rupture/Failure Unknown Spill Other								
CHECK ONE ONLY CHECK ONE ONLY CHECK ONE ONLY CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN									
CURRENT	CHECK ONE ONLY No Action Taken Case Closed (Cleanup Completed or Unnecessary) Leak Being Confirmed Remediation Plan Post Cleanup Monitoring in Progress Preliminary Site Assessment Workplan Submitted Preliminary Site Assessment Underway								
REMEDIAL	CHECK APPROPRIATE ACTION(S) Cap Site (CD)								
COMMENTS	1/29/2009 letter from local implementing agency (ACEHS) identified Atlantic Richfield Company as one of six parties allegedly responsible for soil and ground-water contamination discovered by Geocon Consultants (Livermore, CA) during a Phase II environmental investigation (report date 5/7/2008) conducted at the Site in April 2008. The 1/29/2009 letter from ACEHS to Atlantic Richfield Company and others requested submittal of an Unauthorized Release Form on or before 3/2/2009, to which we are complying.								