ALAMEDA COUNTY **HEALTH CARE SERVICES**



For Hazardous Materials Releases 1131 HARBOR BAY PARKWAY, SUITE 250 ALAMEDA, CA 94502 AGENCY (510) 567-6700 COLLEEN CHAWLA, Director FAX (510) 337-9335

May 31, 2018

Ms. Leslie Mulholland Leslie Mulholland Trust 132 Guilford Road Piedmont, CA 94611 (Sent via electronic mail to airleslie@hotmail.com)

Subject:

Case Closure for Fuel Leak Case No. RO0003070 and GeoTracker Global ID T1000002521,

DEPARTMENT OF ENVIRONMENTAL HEALTH LOCAL OVERSIGHT PROGRAM (LOP)

Mulholland Residence, 132 Guilford Road, Piedmont, CA 94611

Dear Ms. Mulholland:

This letter transmits the enclosed Remedial Action Completion Certificate and Case Closure Summary for the subject leaking underground fuel tank case. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. This Remedial Action Completion Certificate and the case closure summary can also be viewed on the State Water Resources Control Board's GeoTracker website (http://geotracker.waterboards.ca.gov) and the Alameda County Environmental Health website (http://www.acgov.org/aceh/index.htm).

This site is closed with residual contamination in the public right-of-way but does not affect the current land use as a residential property. Land use restrictions are described in the attached Case Closure Summary.

If you have any questions, please call Mark Detterman at (510) 567-6876. Thank you.

Sincerely.

Dilan Roe, P.E.

LOP and SCP Program Manager

Enclosures:

- 1. Remedial Action Completion Certification
- 2. Case Closure Summary

Cc w/enc.:

Megan Walsh, Esq., 1550 Vista Street, Oakland, CA 94602; (Sent via electronic mail to: meganwalshesg@gmail.com)

Brent Wheeler, Wheeler Group Environmental, LLC, 369-B Third Street, Suite 221, San Rafael, CA 94519; (Sent via electronic mail: bwheeler@wheelergroupenvironmental.com)

Mark Youngkin, Wheeler Group Environmental, LLC, 369-B Third Street, Suite 221, San Rafael, CA 94519 (Sent via electronic mail: mark.youngkin@gmail.com)

Mr. Kevin Jackson, City of Piedmont, Planning Director, 120 Vista Avenue, Piedmont, CA 94611; (Sent via electronic mail: kjackson@piedmont.ca.gov)

Mr. Chester Nakahara, City of Piedmont Planning, Public Works Director, 120 Vista Avenue, Piedmont, 94611; (Sent via electronic mail: cnakahara@piedmont.ca.gov) Dilan Roe, ACDEH, (Sent via electronic mail to: dilan.roe@acgov.org) Paresh Khatri, ACDEH; (Sent via electronic mail to: paresh.khatri@acgov.org) Mark Detterman, ACDEH, (Sent via electronic mail to: mark.detterman@acgov.org) Electronic File: GeoTracker

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



DEPARTMENT OF ENVIRONMENTAL HEALTH LOCAL OVERSIGHT PROGRAM (LOP) For Hazardous Materials Releases 1131 HARBOR BAY PARKWAY, SUITE 250 ALAMEDA, CA 94502 (510) 567-6700 FAX (510) 337-9335

COLLEEN CHAWLA, Director

REMEDIAL ACTION COMPLETION CERTIFICATION

May 31, 2018

Ms. Leslie Mulholland Leslie Mulholland Trust 132 Guilford Road Piedmont, CA 94611 (Sent via electronic mail to <u>airleslie@hotmail.com</u>)

Subject: Case Closure for Fuel Leak Case No. RO0003070 and GeoTracker Global ID T1000002521,

Mulholland Residence, 132 Guilford Road, Piedmont, CA 94611

Dear Ms. Mulholland:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Please be aware that claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is
 required for closure that will result in the submission of claims beyond that time period, or that
 under the circumstances of the case, it would be unreasonable or inequitable to impose the 365day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ronald Browder

Director

Mulholland Residence (T1000002521/RO0003070)

1. CASE INFORMATION

A. Facility/Site Address (Case Name & Address)

Project Name	Address
Mulholland Residence	132 Guilford Road, Piedmont, CA 94611

B. Case Identification Numbers

Cleanup Oversight Agencies	Case/ID No
Alameda County Local Oversight Program (LOP) - Lead Agency	RO0003070
San Francisco Bay Regional Water Quality Control Board (Region 2)	N/A
State Water Resources Control Board GeoTracker Global ID	T1000002521

C. Lead Agency Information

Agency Name:	Agency Address:	Agency Phone:
Alameda County Department of Environmental Health (ACDEH)	1131 Harbor Bay Parkway, Alameda, CA 94502-6577	(510) 567-6700
Case Worker:	LOP Supervisor:	Land Water Division Chief:
Mark Detterman, PG 4799, CEG 1788	Paresh Khatri	Dilan Roe, PE C73703

D. Responsible Party Information

Responsible Parties:	Address:				
Leslie Mulholland Trust, c/o Ms. Leslie Mulholland	132 Guilford Road, Piedmont, CA 94611				
9					

Mulholland Residence (T1000002521/RO0003070)

2. PROPERTY INFORMATION

A. Assessor Parcel Numbers (APNs)

Current	51-4676-19				
Historic	Not Applicable	- -			

B. Alternate Addresses

Not Applicable

C. Environmental Cases Associated with Property

Case Type	Lead Oversight Agency	Site ID Geotracker ID/LOP Case No.	Potential Contaminants of Concern	Status (Open/Closed)	
LUST ¹	ACDEH	T1000002521/RO0003070	TPHd, BTEX, MTBE, Naphthalene	April 2010/ May 2018	
SCP ¹	ACDEH	Not Applicable	Not Applicable	Not Applicable	
Other ²	DTSC	Not Applicable	Not Applicable	Not Applicable	
Other ³	EPA	Not Applicable	Not Applicable	Not Applicable	
Post- Closure ¹	N/A	Not Applicable	Not Applicable	Not Applicable	

¹Refer to the State Water Resources Control Board's GeoTracker database for case information: https://geotracker.waterboards.ca.gov

D. Identified Historic Land Use & Operations

Туре	Description
Residential	The site has historically been used in a residential capacity.

² Refer to the California Department of Toxics Substances Control Board's (DTSC) Envirostor database for case information: http://www.dtsc.ca.gov/sitecleanup/cleanup_sites_index.cfm

³ Refer to the United States Environmental Protection Agency's (EPA) Site Specific National Cleanup Databases for case information: https://www.epa.gov/cleanups/site-specific-national-cleanup-databases

Mulholland Residence (T1000002521/RO0003070)

3. LUST CASE SUMMARY

A. Reason Case Opened

Leaking Underground Storage Tank (LUST) Cleanup Site Case No. T1000002521/R00003070 was opened in 2010 by ACDEH to investigate and evaluate impacts to human health and the environment associated with an unauthorized release from a home heating oil UST and associated UST system components that were removed from the site in 2010 during landscaping activities in the front yard.

Other potential chemicals of concern from historic land use and operations at the site were not evaluated in association with this LUST case.

B. Known UST Systems at the Site

UST System Component	Size / Quantity	Material Stored	Status	URF Filing Date:
UST	200-gallon	Heating Oil	Removed	4/28/2010

C. Unauthorized Release Description

In 2010, a single walled bare steel 200-gallon heating oil UST along with associated fuel delivery piping was removed from the site under oversight by the ACDEH Certified Unified Program Agency (CUPA). The tank measured approximately 4 feet in length by 3 feet in diameter, and the fill port was located on the west end of the tank. The subsurface product piping extending between the top of the tank and the foundation of the building was cut at each end, drained of any residual product and removed from the excavation area. Exposed vent lines and fill pipes were removed and the end of the cut pipe at the foundation plugged. The age of the tank was unknown and the property owner had no knowledge of the tank.

The tank was observed to be in poor condition with at least one visible hole. Soil discoloration and hydrocarbon odors were observed in the tank overburden soil and the soil underlying the tank. The overburden soil and soil underlying the tank was predominantly rock/silt. Groundwater was not observed in the excavation during tank removal activities. The overburden soil covering the tank was removed and placed on visqueen in a covered stockpile adjacent to the tank excavation. After removal of the UST, 11.76 tons of contaminated soil was off-hauled to an appropriate receiving landfill.

The observation of a hole in the tank and petroleum hydrocarbon concentrations in confirmation samples collected in native soil beneath the tank and in the excavated soil stockpile as well as a perched water sample collected from the bottom of the tank pit indicated an unauthorized release had occurred at the site.

D. Site Investigations

Site investigation activities were conducted in 2018 to evaluate the extent of subsurface impacts to soil, soil vapor and groundwater from the release. The investigations included collection and analysis of (1) soil samples from seven soil bores (B1 to B7); (2) sub-slab vapor samples from a temporary vapor probe (SS1) installed beneath the basement floor of the residential structure; and (3) water samples from two private water supply wells located at the distances of approximately 125 feet and 325 feet downgradient of the release.

E. Site Geology & Hydrogeology

Soil beneath the site consists of fine grained soil (clays and silts) between near ground surface and approximately 14 feet bgs (the total depth explored). Weathered bedrock was encountered at depths as ranging from approximately 1.5 feet to 8.5 feet bgs. Hard bedrock was encountered at a depths of approximately 13 to 14 feet bgs. Groundwater was not encountered in the tank pit excavation or soil borings.

Mulholland Residence (T1000002521/RQ0003070)

3. LUST CASE SUMMARY (CONTINUED)

F. Sensitive Receptors

During the investigation two high schools were identified within 1000 feet of the site including Piedmont High School approximately 622 feet northwest of the site, and Piedmont Millennium High School approximately 830 feet west of the site.

Two private water supply irrigation wells were identified on residential properties located in close proximity to the estimated potential petroleum hydrocarbon plume length at 125 Guilford Road and 120 Hazel Lane.

Bushy Dell Creek is approximately 450 feet downgradient to the west northwest. The north branch of Wildwood Creek is located crossgradient to the south at a distance of approximately 1,050 feet, and Trestle Glen Creek is located upgradient to the east at a distance of approximately 2,830 feet.

G. Non Aqueous Phase Liquid (NAPL)

A concentration of 5,080 mg/kg diesel detected in the excavation soil stockpile sample indicate the historic presence of residual NAPL in soil. However, the analytical results of the confirmation sample collected at a depth of 9 feet bgs in the bottom of the excavated tank pit (217 mg/kg diesel) and soil samples collected from borings B-1 through B-7 (maximum concentration of 282 mg/kg diesel) indicate that the bulk of the residual NAPL has been removed, with the exception of residual NAPL located immediately adjacent to the former tank pit beneath the sidewalk at a depth of 2 to 4 feet bgs. Analytical results for BTEX and naphthalene in soil samples collected from borings B1 through B-7, indicate that the residual NAPL remaining in the vicinity of the former tank pit area is weathered and depleted of volatile organic compounds.

No free product was observed in the tank pit or evidence of free product observed in boring logs or indicated by dissolved phase concentrations of petroleum hydrocarbons in groundwater samples collected from the private wells.

H. Remediation

Other than removal of soil around the USTduring tank removal, no remediation was conducted.

Mulholland Residence (T1000002521/R00003070)

4. POTENTIAL CONTAMINANTS OF CONCERN

A. Constituents Evaluated & Residual Contamination Remaining at Closure

Material	/aluated & Residual	Sampled,		- III	ig at c	Media			
Stored/Dispensed in UST System	Analytes	Residual	S	GW	SW	SV	SS	IA	OA
Engine Fuels	TDU -1	Sampled				×	×		
☐ Gasoline Fuel	TPH-g ¹	Residual				×			
(1, 2, 9, 10, 11, 12, 13, 14)	TPH-d ²	Sampled	×	×					
☐ Diesel Fuel	TFTI-G	Residual	×						
(2, 9, 10)	TPH-mo ³	Sampled		×					
☐ Jet Fuel	(soil only)	Residual							
(1, 2, 4, 9, 10)	TPH-if ⁴	Sampled							
Heating Oils		Residual							
☐ Kerosene	TPH-k ⁵	Sampled							
(2, 5, 9, 10)		Residual							
☑ Residential	TPH-ss ⁶	Sampled							
Heating Oils	11 11 00	Residual							
(2, 3, 9, 10)	TPH-bo ⁷	Sampled							
☐ Commercial &		Residual							
Industrial Heating	TPH- ho ⁸	Sampled							
Oils (1, 2, 3, 7, 9, 10, 15, 16)		Residual							
Other Oils	BTEX9	Sampled		×			×		
		Residual					×		
☐ Waste (Used) Oil (1, 2, 3, 9, 10, 15, 16, 17, 18)	Naphthalene ¹⁰	Sampled		×			×		
·		Residual	×						
☐ Hydraulic Oil (8, 16, 17)	MTBE/TBA ¹¹	Sampled		×					
(0, 10, 17)		Residual	×						
☐ Dielectric Oil	EDB/EDC ¹²	Sampled	×						
(2, 3, 10, 16, 17)		Residual							
☐ Unknown Oil	Organic Lead ¹³	Sampled	×						
(1, 2, 3, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18)	(19/6, 166)	Residual							
	Fuel Oxygenates ¹⁴	Sampled	×						
Solvents	(DIPE, TAMÉ, ÉtOH, ETBE)	Residual							
☐ Hydrocarbon	VOCs ¹⁵	Sampled							
Solvents (2, 3, 6, 9, 10)	(full scan)	Residual							
	SVOCs ¹⁶	Sampled							
		Residual							
	PCBs ¹⁷	Sampled							
		Residual							
	Metals ¹⁸ (Cd, Cr, Pb, Ni, Zn)	Sampled							
	(-2, -1, -1, -1, -1)	Residual							

S = Soil, GW = Groundwater, SW = Surface Water, SV = Soil Vapor, SS = Sub-Slab Vapor, IA = Indoor Air, OA = Outdoor Air

Mulholland Residence (T1000002521/R00003070)

5. CLOSURE SUMMARY

A. Low Threat Closure Policy (LTCP) Evaluation

This UST release case has been evaluated for closure consistent with the State Water Resource Control Board's Low-Threat Underground Storage Tank Closure Policy (LTCP) for petroleum related contaminants. ACDEH has determined that the site meets all the LTCP General and the Media Specific Criteria for Direct Contact and Outdoor Air. The site does not meet the Media Specific Criteria for Groundwater Media and the Specific Criteria Vapor Intrusion to Indoor Air. However, based on an analysis of site specific conditions a determination has been made that the residual contamination in soil at the site poses a low threat to human health and safety and to the environment under current and reasonably anticipated near-term future scenarios.

Refer to Attachments 4 through 7 for detailed information on the LTCP evaluation.

B. Well Status (Groundwater)

No. of Wells Installed: 0	No. of Wells Lost: 0
No. of Wells Destroyed: 0	No. of Wells Retained: 0

C. Vapor Probe Status

No. of Soil Vapor Probes (VP) Installed: 0 No. of Sub-Slab Probes Installed: 1	No. of VPs Lost: 0	
No. of VPs Destroyed:1	No. of VPs Retained: 0	

D. Waste Removal Status

All investigation and remediation derived waste associated with the heating oil UST release was removed from the site.

E. Public Comment

A 60 day public notification period was completed on June 24, 2018. Refer to Attachment 3 for case closure notification information. Two comments were received. One in support of the closure, and the second likely related to PG&E natural gas odors.

Mulholland Residence (T1000002521/RO0003070)

6. ADMINISTRATIVE, INSTITUTIONAL & ENGINEERING CONTROLS

A. Land Use at Time of Closure

At the time of case closure, the 6,400 square foot parcel was developed a residential property with a 3,000 square foot two story wood frame single family structure with partial basement, detached garage and landscaping. The former UST was located beneath the lawn immediately west of the driveway located on Guilford Road Avenue.

The property is located within a residential suburban neighborhood and surrounded by similar single-family residential structures.

B. Administrative Controls

Site Management Requirements: Due to residual petroleum hydrocarbon subsurface contamination, the site has been closed with the following site management requirements. The site management requirements associated with this case are specific to petroleum hydrocarbon contamination related to historic releases from UST systems and do not address other site contamination that may be in the subsurface from historic land use at and in the vicinity of the site.

a. Repair & Maintenance of Existing Site Improvements: Any repair or maintenance activity of existing site improvements in areas of residual contamination requires planning and implementation of appropriate health and safety procedures prior to and during excavation activities. These activities include repair or maintenance of existing foundations, utility lines, hardscape, landscaping or other work occurring beneath the grade level of the existing finished surface. Activities covered under this category do not include modifications or redevelopment activities described below.

Each contractor shall be responsible for the safety of its employees and site visitors and must adhere to a site-specific health and safety plan prepared for the work in accordance with California Occupational Safety and Health Administration requirements and use properly trained personnel in accordance with California Code of Regulations, Title 29, Part 1910.120 Hazardous Waste Operations and Emergency Response (HAZWOPER) standards.

- a. **Modifications to Existing Site Improvements:** Prior to permitting of any proposed modifications to the existing site improvements that include modifications to the foundation, subsurface utilities and/or hardscape or subsurface work, the property owner and the local building and planning authority with permitting jurisdiction at the site must notify ACDEH as required by Government Code Section 65850.2.2. ACDEH will re-evaluate the site relative to the proposed modifications to assess risk to human health under the proposed changes.
- b. Site Redevelopment. Prior to permitting of any proposed site redevelopment including a change in land use to residential, or other conservative land use, the property owner and the local building and planning authority with permitting jurisdiction at the site must notify ACDEH as required by Government Code Section 65850.2.2. ACDEH will re-evaluate the site relative to the proposed redevelopment to assess risk to human health under the proposed land use scenario from subsurface contamination associated all recognized environmental concerns at the site.

C. Engineering Controls

Not Applicable

D. Institutional Controls

Not Applicable

Mulholland Residence (T1000002521/RO0003070)

E. Environmental Due Diligence

ACDEH recommends that during the environmental due diligence process (initiated as part of activities including, but not limited to, property transactions, bank refinancing, and redevelopment) that the site and parcels in the vicinity of the site be evaluated for risk from and exposure to potential chemicals of concern identified at this site.

7. LOCAL AGENCY SIGNATURES

Dilan Roe, PE, C73703	Title: Chief, Land Water Division				
Signature: Dlu Pvc	Date: 5/9/2018				
Paresh Khatri	LOP Supervisor				
Signature: Mucha	Date: 5/9/2018				
Mark Detterman, PG 4799, CEG 1788	Title: Senior Hazardous Materials Specialist				
Signature: Maks	Date: 6/9/2018				

This Case Closure Summary along with the Remedial Action Completion Certification provides documentation of the case closure. This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions. Additional information on the case can be viewed in the online case file. Case files can be viewed over the Internet on the Alameda County Department of Environmental Health website (http://www.acgov.org/aceh/lop/ust.htm) or the State of California Water Resources Control Board GeoTracker website (http://geotracker.waterboards.ca.gov). Both databases should be reviewed to obtain a complete history.

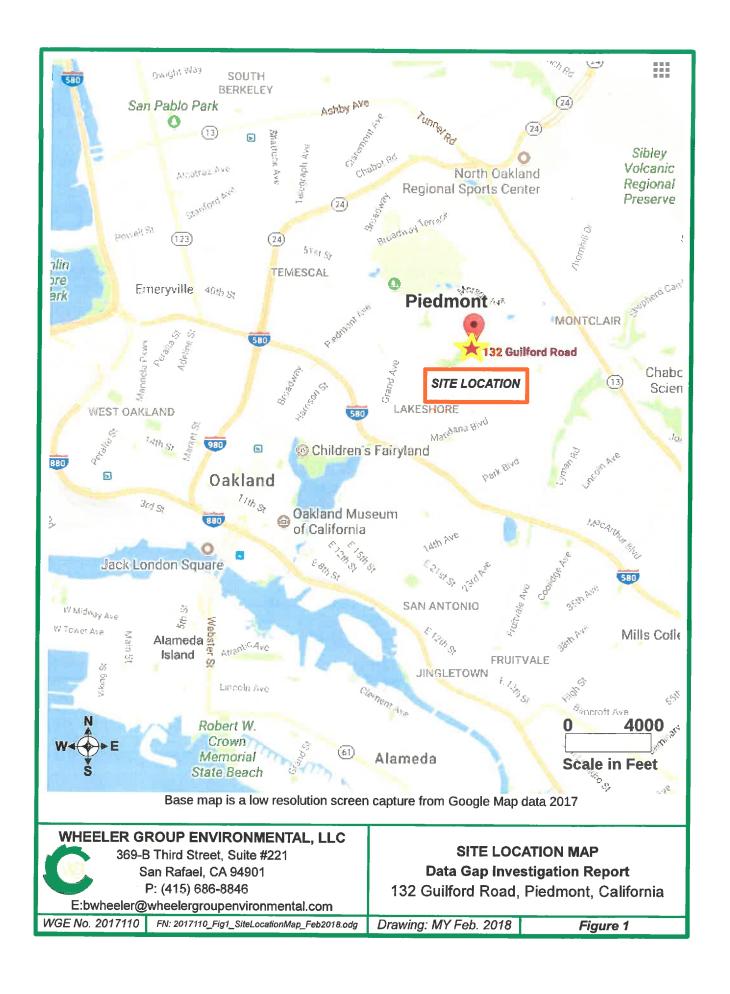
Leaking Underground Storage Tank (LUST) Cleanup Site Case Closure Summary Form Mulholland Residence (T1000002521/RO0003070)

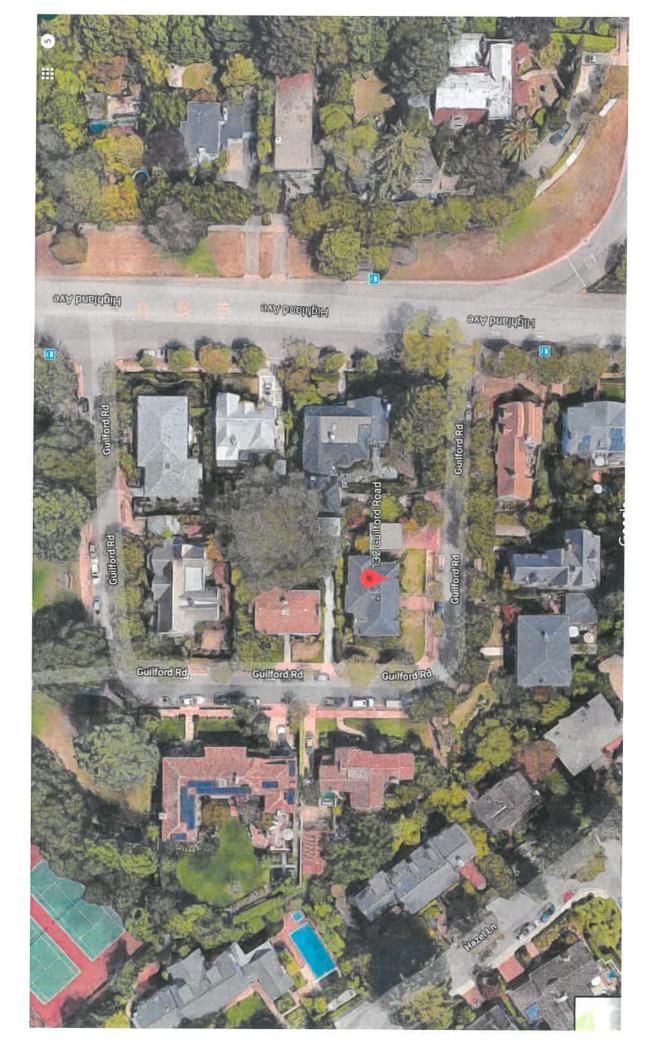
No.	Description	No. of Pages
1	Site Vicinity and Site Map Figures	2
2	Responsible Party Information	4
3	Case Closure Public Notification Information	2
4	Geotracker LTCP Evaluation Checklist	2
5	LTCP Media Specific Evaluation - Groundwater	2
6	LTCP Media Specific Evaluation - Vapor Intrusion	2
7	LTCP Media Specific Evaluation - Direct Contact	2
8	Figures with Sampling Locations	1
9	Boring Logs	7
10	Groundwater Data	1
11	Soil Data	2
12	Soil Vapor Data	1
13	Sensitive Receptor Data	3

Leaking Underground Storage Tank (LUST) Cleanup Site Case Closure Summary Form Mulholland Residence (T1000002521/RO0003070)

ACRONYMS

ACDEH	Alameda County Department of Environmental Health
APN	Assessor Parcel Number
BTEX	benzene, toluene, ethylbenzene, xylenes
EDB	ethylene dibromide or 1,2-dichloroethane (1,2-DCA)
EDC	ethylene dichloride
CEG	Certified Engineering Geologist
Cd	cadmium
Cr	chromium
c/o	care of
DIPE	di-isopropyl ether
DTSC	California Department of Toxic Substances Control
EPA	Environmental Protection Agency
ETBE	Ethyl tert butyl ether
EtOC	ethanol
ft bgs	feet below ground surface
GW	groundwater
IA	indoor Air
ID	Identification
K	1,000
LOP	Local Oversight Program
LTCP	State Water Resources Control Board's Low Threat Closure Policy
LUST	
MTBE/TBA	Leaking Underground Storage Tank methyl tert butyl either/t-Butyl alcohol
Ni Ni	
NA	nickel
	not analyzed
NR	not required
OA	outdoor air
Pb	lead
PCBs	polychlorinated biphenyls
PE	California Professional Engineer
PG	California Professional Geologist
S	soil
SCP	Site Cleanup Program
SS	sub-siab vapor
SV	soil vapor
SVOCs	semi volatile organic compounds
SW	surface water
TAME	tert amyl methyl ether
TPHbo	total petroleum hydrocarbons as bunker oil
TPHd	total petroleum hydrocarbons as diesel
TPHg	total petroleum hydrocarbons as gasoline
TPHho	total petroleum hydrocarbons as hydraulic oil
TPHjf	total petroleum hydrocarbons as jet fuel
TPHk	total petroleum hydrocarbons as kerosene
TPHmo	total petroleum hydrocarbons as motor oil
TPHss	total petroleum hydrocarbons as stoddard solvent
UST	Underground Storage Tank
VOCs	volatile organic compounds
Zn	zinc
mg/kg	
μg/kg	milligrams per kilogram
	microgram per liter
µg/m3	microgram per cubic meter
>, <, ≥	greater than, less than, or greater than or equal to
%	percent





ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ALEX BRISCOE, Director

Certified Mail #: 7009 2820 0001 4372 5075

October 28, 2010

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

NOTICE OF RESPONSIBILITY

Site Name & Address:

MULHOLLAND RESIDENCE

132 GUILFORD RD PIEDMONT, CA 94611 Local ID:

RO0003070

Related ID:

NA

RWQCB ID:

NA

Global ID:

T10000002521

Responsible Party:

LESLIE MULHOLLAND LESLIE MULHOLLAND TR 132 GUILFORD RD **PIEDMONT CA 94611-3805** Date First Reported:

Substance:

7/1/2010

12 Heater fuel

Funding for Oversight: LOPS - LOP State Fund

Multiple RPs?: No

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified LESLIE MULHOLLAND TR as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5650.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker DETTERMAN, MARK, at this office at (510)567-6876 if you have questions regarding your site.

ARTU (EVI) Director Contract Project Director Date: 10/21/10

Action: Add

Reason: New Site

ALAMEDA COUNTY ENVIRONMENTAL HEALTH LUFT LOCAL OVERSIGHT PROGRAM

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET

October 28, 2010

Site Name & Address:

MULHOLLAND RESIDENCE 132 GUILFORD RD PIEDMONT, CA 94611 Local ID:

RO0003070

NA

Related ID:

RWQCB ID: NA

Global ID:

T10000002521

All Responsible Parties

RP has been named a Primary RP - LESLIE MULHOLLAND LESLIE MULHOLLAND TR

132 GUILFORD RD | PIEDMONT, CA 94611-3805 | Phone (510) 681-6976

Responsible Party Identification Background

Alameda County Environmental Health (ACEH) names a "Responsible Party," as defined under 23 C.C.R Sec. 2720. Section 2720 defines a responsible party 4 ways. An RP can be:

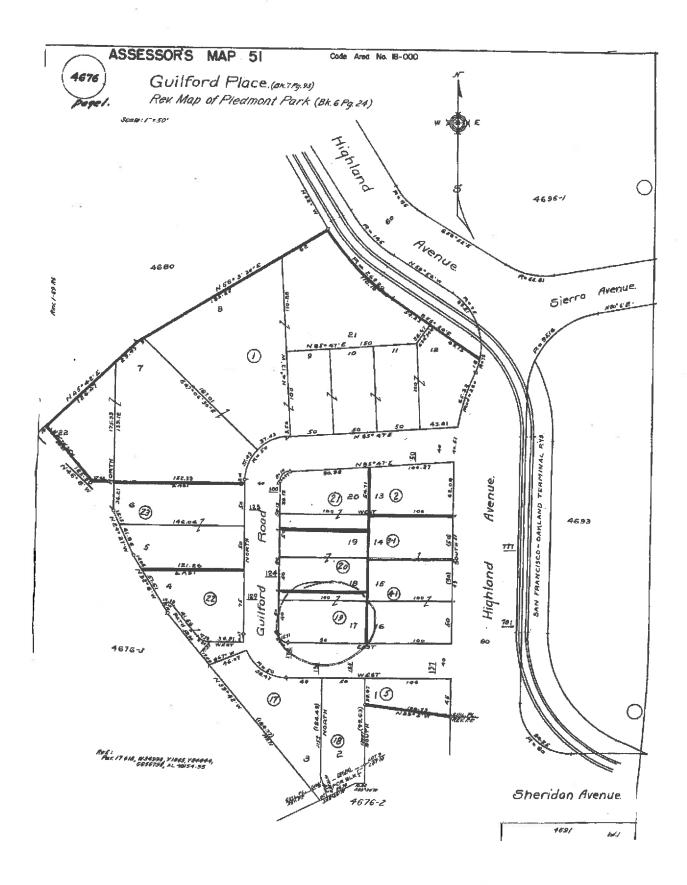
- "Any person who owns or operates an underground storage tank used for the storage of any hazardous substance."
- 2. "In the case of any underground storage tank no longer in use, any person who owned or operated the underground storage tank immediately before the discontinuation of its use."
- 3. "Any owner of property where an unauthorized release of a hazardous substance from an underground storage tank has occurred."
- 4. "Any person who had or has control over an underground storage tank at the time of or following an unauthorized release of a hazardous substance."

Existence of Unauthorized Release

One 200-gallon underground storage tank (UST) that stored diesel / heating oil was excavated and removed from the site on April 28, 2010. At least one hole was reported to be visible in the UST. Groundwater was not encountered in the excavation. A total of one confirmation soil sample was collected from beneath the excavation and one from the soil stockpile. A concentration of TPH as diesel (217 mg/kg) was detected beneath the excavation, while a concentration of TPH as diesel (5,080 mg/kg) was detected in the four point composite sample from the stockpile; both indicate than an unauthorized release had occurred.

Responsible Party Identification

The Leslie D Mulholland Trust was the tank owner and property owner at the time of the tank removal. The Leslie D. Mulholland Trust is a responsible party for the site because it owned the underground storage tanks (Definition 1), owned the property where an unauthorized release occurred (Definition 3), and had control of underground storage tanks at the time of or following an unauthorized release (Definition 4).



ASSESSOr's Office
Property Value System

Help

New Query

History | Value | Transfer | Map | Glossary

Parcel Number: 51-4676-19 Inactive: N Lien Date: 01/01/2017 Owner: MULHOLLAND LESLIE D TR Property Address: 132 GUILFORD RD, PIEDMONT, CA 94611-3805

Mailing Name Historical Value Parcel Use **Document Document** Number Mailing Address Date From Count Trans Tax MULHOLLAND LESLIE D List 132 GUILFORD RD. 04/21/2010 2010-1100 TR Owners PIEDMONT, CA 94611 109956 3805 MULHOLLAND LESLIE D List 132 GUILFORD RD, 04/13/2010 2010-1 1100 TR Owners PIEDMONT, CA 94611 102070 MULHOLLAND C B & List 132 GUILFORD RD. 06/14/2005 2005-1 1100 LESLIE D TRS **Owners** PIEDMONT, CA 94611-243685 3805 MULHOLLAND BRADLEY 132 GUILFORD RD. List 06/16/1986 1986-\$675,000 1 1100 & LESLIE **Owners** PIEDMONT, CA 94611 141049 3805 BELLING GERALDINE B 132 GUILFORD RD, List 02/01/1974 1974-1100 **Owners** PIEDMONT, CA 94611 12857 3805 List BELLING KENNETH B + 132 GUILFORD RD. 1100 12/30/1966 AY-1 GERALDINE B Owners PIEDMONT, CA 94611-143857 3805

All information on this site is to be assumed accurate for property assessment purposes only, and is based upon the

Assessor's knowledge of each property. Caution is advised for use other than its intended purpose.

The Alameda County Intranet site is best viewed in Internet Explorer Version 5.5 or later.

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ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

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

COLLEEN CHAWLA, Agency Director

<u>INVITATION TO COMMENT – POTENTIAL CASE CLOSURE</u>

Mulholland Residence
132 Guilford Road, Piedmont, California
FUEL LEAK CASE RO0003070
GEOTRACKER GLOBAL ID T1000002521

April 23, 2018

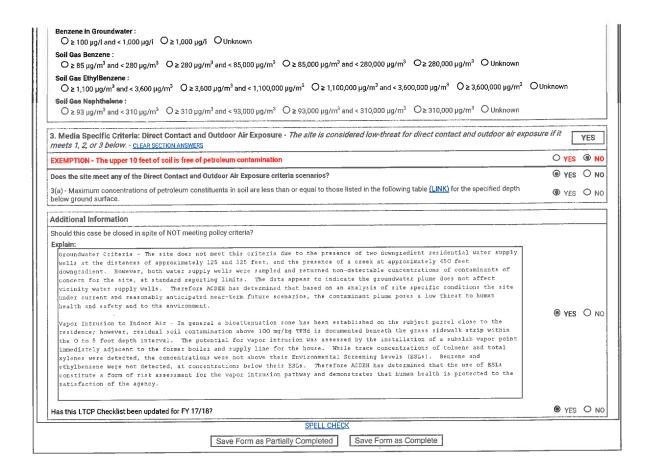
The above referenced site is a fuel leak case that is under the regulatory oversight of the Alameda County Department of Environmental Health (ACDEH) Local Oversight Program for the investigation and cleanup of a release of petroleum hydrocarbons from an underground storage tank system. Site investigation and cleanup activities have been completed and the site has been evaluated in accordance with the State Water Resources Control Board Low-Threat Closure Policy. The site appears to meet all of the criteria in the Low-Threat Closure Policy. Therefore, ACDEH is considering closure of the fuel leak case.

The public is invited to review and comment on the potential closure of the fuel leak case. This notice is being sent to the current occupants and landowners of the site and adjacent properties and other known interested parties. The entire case file can be viewed over the Internet on the ACDEH website (http://www.acgov.org/aceh/lop/ust.htm) or the State of California Water Resources Control Board GeoTracker website (http://geotracker.waterboards.ca.gov). Please send written comments to Mark Detterman at the address below; all comments will be forwarded to the responsible parties. Comments received by June 24, 2018 will be considered and responded to prior to a final determination on the proposed case closure.

If you have comments or questions regarding this site, please contact the ACDEH caseworker, Mark Detterman at 510-567-6876 or by email at mark.detterman@acgov.org. Please refer to ACDEH case RO0003070 in any correspondence.

Email laurent, meillier@waterboards.ca.gov	kblack@ci.piedmont.ca.us cnakahara@ci.piedmont.ca.us
Zip Zip 4 Attn 94611 4033 94611 3808 94611 3804 94611 4047 94611 4031 94611 4033 94611 4033 94611 4033 94611 3850 94611 3850 94611 3805 94611 3805	KATE BLACK CHESTER NAKAHARA
City PIEDMONT CA P	
StreetAddress Unit 120 HAZEL LN 120 HAZEL LN 120 HAZEL LN 120 HAZEL LN 756 MAGNOLLA AVE 120 VISTA AVE 144 HAZEL LN 104 HAZEL LN 104 HAZEL LN 38650 MISSION BLVD 791 HIGHLAND AVE 135 GUILFORD RD 132 GUILFORD RD 131 GUILFORD RD 777 HIGHLAND AV 777 HIGHLAND AV 7781 HIGHLAND AV 7781 HIGHLAND AV 7781 HIGHLAND AV 7781 HIGHLAND AV 7791 HIGHLAND AV 750 MAGNOLLA AV 750 MAGNOLLA RD 56 GUILFORD RD 125 GUILFORD RD 1	
Name BERLEKAMP ELWYN & JENNIFER TRS BERLEKAMP ELWYN & JENNIFER TRS GAZIVIN & JANE CULLINANAMES FAMILY TRUST CASTRO ROBERTO B & FRANCISCO NORMA TTRS CITY OF PIEDMONT COLD AN A & GOLD FINE MONA S JEWELL NICHOLAS P & DEBRA TRS JOSEPH TOM & APRIL TRS KELSON JOHN M & ELIZABETH D TRS KINCH KELLY B & THEDDORE KWAN SIMON H & ELENE Z TRS MULHOLLAND LESILE D TR MANOLIS PAUL & DEBORAH K OCCUPANT THEIS DAVID S & RARION TRS SEAVEY WILLIAM J TR THEIS DAVID S & ROYCE SARAH TRS STRAUCH ROGER A & KULHANJIAN JULIE A TRS STRAUCH ROGE	CITY OF PIEDMONT
Parcel_APN 51-4676-24-1 51-4676-3-1 51-4676-3-1 51-4676-1 51-4676-2 51-4676-2 51-4676-2 51-4676-2 51-4676-2 51-4676-2 51-4676-2 51-4676-3 51-4676-1 51-4676-1 51-4676-1 51-4676-1 51-4676-1 51-4676-1 51-4676-1 51-4676-1 51-4676-1 51-4676-1 51-4676-1 51-4676-2 51-4676-2 51-4676-2 51-4676-2 51-4676-2 51-4676-2 51-4676-2	

MULHOLLAND RESIDENCE (T10000002521) - MAP THIS SITE	
132 GUILFORD RD PERTINENT INFORMATION: CUF Claim #: 20374 CUF Priority Assigned: A CUF Amount Paid: 50 ALAMEDA COUNTY LOP (LEAD) - CASE #: RC	
ALAMEDA COUNTY SAN FRANCISCO BAY RWQCB (REGION 2) - LUST CLEANUP SITE (INFO)	CASE #: NA - Regiona
STATUS: OPEN - VERIFICATION	
MONITORING	
■ Activities Report ♣ Documents / Data ♣ Environmental Conditions ♣ Admin ♠ Funding ■ Case Reviews	
THIS PROJECT WAS LAST MODIFIED BY MARK DETTERMAN ON 4/19/2018 11:16:04 AM - HISTORY	
CLOSURE POLICY THIS VERSION IS FINAL AS OF 4/19/2018 CHECKLIST INITIATED ON 7/26/2013	CLOSURE POLI
General Criteria - The site satisfies the policy general criteria - GLEAR SECTION ANSWERS	YES
a. Is the unauthorized release located within the service area of a public water system?	
Name of Water System :	YES
ЕВМПО	
b. The unauthorized release consists only of petroleum (info).	
c. The unauthorized ("primary") release from the UST system has been stopped.	
	countered © YES
	YES
e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed (info)	
f. Secondary source has been removed to the extent practicable (info).	
g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15.	ot Required YES
h. Does a nuisance exist, as defined by Water Code section 13050.	O YES
1. Media-Specific Criteria: Groundwater - The contaminant plume that exceeds water quality objectives is stable or decreasing in areal e.	extent, and
meets all of the additional characteristics of one of the five classes of sites listed below CLEAR SECTION ANSWERS	L
EXEMPTION - Soil Only Case (Release has <u>not</u> Affected Groundwater - <u>info</u>)	O YES
Does the site meet any of the Groundwater specific criteria scenarios?	O YES
Free Product in Groundwater: Yes No Unknown Free Product Has Been Removed to the Maximum Extent Practicable: No Unknown For sites with free product, the Plume Has Been Stable or Decreasing for 5-Years (Info): No Unknown	
For sites with free product, owner Willing to Accept a Land Use Restriction (if required):	
O No O Unknown Free Product Extends Offsite:	
O Yes O Unknown	
Benzene Concentration:	
O ≥ 1,000 µg/l and < 3,000 µg/l O ≥ 3,000 µg/l O Unknown	
MTDE Concentration	
MTBE Concentration: ○≥1,000 μg/I ○ Unknown	
O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary):	
O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary):	
O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary):	
O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary): ③ ≤ 250 Feet O > 250 Feet and ≤ 1,000 Feet O Unknown Nearest Surface Water Body (From Plume Boundary): O ≤ 250 Feet ⑥ > 250 Feet and ≤ 1,000 Feet O Unknown	
O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary): ③ ≤ 250 Feet O > 250 Feet and ≤ 1,000 Feet O Unknown Nearest Surface Water Body (From Plume Boundary): ○ ≤ 250 Feet ⑥ > 250 Feet and ≤ 1,000 Feet O Unknown 2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathw	ay if site-
O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary): ③ ≤ 250 Feet O > 250 Feet and ≤ 1,000 Feet O Unknown Nearest Surface Water Body (From Plume Boundary): ○ ≤ 250 Feet ③ > 250 Feet and ≤ 1,000 Feet O Unknown 2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathw specific conditions satisfy items 2a, 2b, or 2c - CLEAR SECTION ANSWERS	L
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O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary): ③ ≤ 250 Feet O > 250 Feet and ≤ 1,000 Feet O Unknown Nearest Surface Water Body (From Plume Boundary): ○ ≤ 250 Feet ③ > 250 Feet and ≤ 1,000 Feet O Unknown 2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathw specific conditions satisfy items 2a, 2b, or 2c - CLEAR SECTION ANSWERS EXEMPTION - Active Commercial Petroleum Fueling Facility Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios?	L
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O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary): ② ≤ 250 Feet O > 250 Feet and ≤ 1,000 Feet O Unknown Nearest Surface Water Body (From Plume Boundary): O ≤ 250 Feet ② > 250 Feet and ≤ 1,000 Feet O Unknown 2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathw specific conditions satisfy items 2a, 2b, or 2c - QLEAR SECTION ANSWERS EXEMPTION - Active Commercial Petroleum Fueling Facility Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios? ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria: O No Soil Gas Samples O Taken Incorrectly Exposure Type:	O YES
O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary): ② ≤ 250 Feet O > 250 Feet and ≤ 1,000 Feet O Unknown Nearest Surface Water Body (From Plume Boundary): O ≤ 250 Feet ② > 250 Feet and ≤ 1,000 Feet O Unknown 2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathw specific conditions satisfy items 2a, 2b, or 2c - QLEAR SECTION ANSWERS EXEMPTION - Active Commercial Petroleum Fueling Facility Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios? ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria: O No Soil Gas Samples O Taken Incorrectly Exposure Type: ③ Residential O Commercial	O YES
O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary): ② ≤ 250 Feet O > 250 Feet and ≤ 1,000 Feet O Unknown Nearest Surface Water Body (From Plume Boundary): O ≤ 250 Feet ② > 250 Feet and ≤ 1,000 Feet O Unknown 2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathw specific conditions satisfy items 2a, 2b, or 2c - QLEAR SECTION ANSWERS EXEMPTION - Active Commercial Petroleum Fueling Facility Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios? ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria: O No Soil Gas Samples O Taken Incorrectly Exposure Type:	O YES
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O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary): ② ≤ 250 Feet O > 250 Feet and ≤ 1,000 Feet O Unknown Nearest Surface Water Body (From Plume Boundary): ○ ≤ 250 Feet ② > 250 Feet and ≤ 1,000 Feet O Unknown 2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathw specific conditions satisfy items 2a, 2b, or 2c - CLEAR SECTION ANSWERS EXEMPTION - Active Commercial Petroleum Fueling Facility Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios? ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria: Soil Gas Samples: ○ No Soil Gas Samples ○ Taken Incorrectly Exposure Type: ② Residential ○ Commercial Free Product: ○ In Groundwater ○ In Soil ○ Unknown TPH in the Bioattenuation Zone: ③ ≥ 100 mg/kg ○ Unknown ○ Soil samples not taken at two depths within 5 ft. zone (only for Scenario 4 with BioZone)	O YES
O ≥ 1,000 μg/I O Unknown Nearest Supply Well (From Plume Boundary): ② ≤ 250 Feet O > 250 Feet and ≤ 1,000 Feet O Unknown Nearest Surface Water Body (From Plume Boundary): ○ ≤ 250 Feet ② > 250 Feet and ≤ 1,000 Feet O Unknown 2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathw specific conditions satisfy items 2a, 2b, or 2c - CLEAR SECTION ANSWERS EXEMPTION - Active Commercial Petroleum Fueling Facility Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios? ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria: Soil Gas Samples: ○ No Soil Gas Samples ○ Taken Incorrectly Exposure Type: ③ Residential ○ Commercial Free Product: ○ In Groundwater ○ In Soil ○ Unknown TPH in the Bioattenuation Zone:	O YES



Attachment 5: LTCP Media Specific Evaluation - Groundwater

LTCP MEDIA SPECIFIC CRITERIA - GROUNDWATER					
Closure Scenario					
 □ Exemption - Site has not affected groundwater; □ Scenario 1 - Short stabilized contaminant plume; □ Scenario 2, □ Scenario 3 - Moderate stabilized contaminant plumes; □ Scenario 4 - Long stabilized contaminant plumes; ☑ Scenario 5 - Site specific conditions demonstrate that the contaminant plume poses a low threat to the human health and the environment 					
		Evaluation	Criteria		
Key: Shading	g = site specific data	a; ⊠ = type of data	or criteria met; hat	ched box indicates n	o criteria
Element	Site Specific	Short Plume Scenario	Moderate Plume Scenario		Long Plume Scenario
Evaluated	Data	□ 1	□ 2	□ 3	□ 4
Plume Length (feet)			⊠ <1,000		
Free Product	No FP□ FP Onsite□ FP Offsite□ Removed toMax Extent	⊠ No FP	⊠ No FP	☐ Removed to max extent onsite; ☐ Does not extend offsite	⊠ No FP
Plume Stability	☐ Stable ☐ Decreasing ☐ ≥5 Years	☐ Stable or decreasing	l decreasing for I		☐ Stable or decreasing
Distance to Nearest Water Supply Well from Plume Boundary (feet)	⊠ <250 □ >250 □ >1,000	□ >250	□ >1,000	□ >1,000	□ >1,000
Distance to Nearest Surface Water Body from Plume Boundary (feet)	⊠ >250 □ >1,000	☑ >250 □ >1,000 □		□ >1,000	□ >1,000
Maximum Benzene Concentrations (µg/l)			⊠ <3,000		⊠ <1,000
Maximum MTBE Concentrations (μg/i)	Historic Max: <0.5 Current Max: <0.5		⊠ <1,000		⊠ <1,000
Property Owner Willing to Accept a Land Use Restriction	Not Required			□ Yes	

Attachment 5: LTCP Media Specific Evaluation - Groundwater

	LTCP MEDIA SPECIFIC CRITERIA - GROUNDWATER (CONTINUED)
Element	Analysis
Plume Length	Groundwater was not encountered to a depth of 14 feet below surface grade (bgs) at the subject site in soil bores where refusal was met on bedrock by the hollow-stem auger drilling technique; however, groundwater is anticpated to be present at depth as demonstrated by two downgradient private water supply wells. Except in the former UST excavation, soil contamination was not documented below approximately five feet bgs onsite. Contaminated soil at the base of the excavation is documented at a depth of approximately nine feet bgs; however, lateral soil samples indicate non-detectable analytical concentrations, at standard limits of reporting, at and below this depth. Based on this the hydrocarbon release at the site may not have affected groundwater. However, to determine if the water supply wells were impacted samples were collected from the wells. The wells are located downgradient at the distances of 125 and 325 feet. Analytical results documented non-detectable concentrations at standard reporting limits.
Free Product	Free Product has not been detected at the site.
Plume Stability	A groundwater plume has not been documented.
Water Supply Wells	An Alameda County Public Works Agency (ACPWA) well survey indicated two water supply irrigation wells within 2,000 feet of the site. The wells are referenced above and are located on site figures. The well survey results from the GeoTracker Groundwater Ambient Monitoring Assessment (GAMA) website indicated there are no public water supply wells, irrigation wells, California Department of Public Health wells, Department of Pesticide Regulation wells located within a 2,000 foot radius of the site.
Surface Water Bodies	Bushy Dell Creek is approximately 450 feet downgradient to the west northwest. The north branch of Wildwood Creek is located crossgradient to the south at a distance of approximately 1,050 feet, and Trestle Glen Creek is located upgradient to the east at a distance of approximately 2,830 feet.

Attachment 6: LTCP Media Specific Evaluation - Vapor Intrusion

LTCP MEDIA SPECIFIC CRITERIA - VAPOR INTRUSION TO INDOOR AIR							
Closure Scenario							
□ Exemption - Active fueling station exempt from vapor specific criteria; □ Scenario 1 – Unweathered free phase LNAPL on groundwater; □ Scenario 2 – Unweathered residual LNAPL in soil; □ Scenario 3a, □ Scenario 3b, □ Scenario 3c – Dissolved phase benzene concentrations in groundwater; □ Scenario 4a - Soil vapor concentrations without bioattenuation zone; □ Scenario 4b - Soil vapor concentrations with bioattenuation zone; □ Site specific risk assessment demonstrates human health is protected; □ Exposure controlled through use of mitigation measures or institutional or engineering controls							
	El Exposure controlled		aluation Crite		inal of engineer	ing controls	
Key	: Shading = site specific				tched box indi	icates no crite	ria
Element Evaluated	High Conc Source Source Scenarios Source Scenarios		ios	Soil Vapor Scenarios			
	2000	NAPL	•	in Groundwa			
		□ 1 or □ 2	⊠ 3a	□ 3b	□ 3c	□ 4a	□ 4b
Groundwater ☐ Water Table (WT)	Highest Historic Water Level (ft bgs): >14 ☐ WT or ☐ PZ:						
□ Confined (PZ)	Max Current Benzene Concentration (μg/L): <0.25	□ ≥3,000	⊠ <100	□ ≥100 & <1,000	⊠ <1,000		
NAPL ☑ Weathered (W) ☐ Unweathered (UW)	□ No NAPL⋈ NAPL (Residual)in Soil□ NAPL (Free Phase)on Groundwater	☐ UW in Soil; or ☐ UW on GW	⊠ No UW in	Soil or GW			
Foundations ⊠ Existing □ Proposed □ None	Type: Partial Basement Depth: Unknown						
Bioattenuation Zone Beneath:	Thickness (ft):	□ ≥30	□ ≥5	□ ≥10	□ ≥5	⊠ <5; or	□≥5
☐ Existing Foundations	TPHg+d Conc (mg/kg): 282	□ <100	□ <100	□ <100	□ <100	□ ≥100; or	☐ <100 (at 2 depths)
⊠ Existing Grade	Oxygen Conc (%):		□ No data or ⊠ <4	☐ No data or ☐ <4	□ ≥4	⊠< 4	□ ≥4 (at bottom)
Soil Vapor (Current	Sample Depth (ft bgs): 0.5 beneath the basement floor					□ ≥5	□ ≥5
Conditions) ☐ Soil Vapor	Benz Conc (µg/m³): <1.6					☐ R< 85	☐ C<85K ☐ C<280K
⊠ Subslab Vapor	Ethylb Conc (μg/m³): <2.2					☐ R<1,100 ☐ C<3,600	☐ R<1,100K ☐ C<3,600K
☐ No Samples Collected	Napht Conc (µg/m³): <2.6					□ R<93 □ R<310	□ R<93K □ C<310K

Attachment 6: LTCP Media Specific Evaluation - Vapor Intrusion

Location	Analysis
Onsite	The site does not meet the Media Specific Criteria for Vapor Intrusion to Indoor Air. Although a minimum 1 foot bioattenuation zone has been established on the parcel close to the residence, residual so contamination above 100 mg/kg TPHd is documented beneath the grass sidewalk strip within the 0 to 5 for depth interval. Due to utilities entering the parcel from the street and the assumed alignment of the supp line from the former heating oil tank to a former boiler located in the a partial basement, the potential for vapor intrusion to the onsite residential building was assessed by the installation of a subslab vapor point immediately adjacent to the former boiler and supply line for the house. Trace concentrations of toluene and total xylenes were detected, however the concentrations were not above their respective San Francisco Baregional Water Quality Control Board's 2016 Environmental Screening Levels (ESLs). Benzene and ethylbenzene were not detected, at concentrations below their ESLs. Based on this data, coupled with the lack of detections of volatile organic compounds in soil in the former tank pit, ACDEH has determined that the residual contamination at the site poses a low risk for the vapor intrusion to indoor exposure.
Offsite	There were no detectable concentrations, at standard reporting limits, of petroleum volatile organic compounds, including naphthalene, in soil or groundwater reported at the site that would pose an offsite vapor intrusion risk.

Attachment 7 – Direct Contact Evaluation and Data

LTCP MEDIA SPECIFIC CRITERIA - DIRECT CONTACT AND OUTDOOR AIR EXPOSURE Closure Scenario □ Exemption (no petroleum hydrocarbons in upper 10 feet); Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below; ☐ Maximum concentrations of petroleum constituents are less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health; ☐ Concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls; ☐ This case should be closed in spite of not meeting the direct contact and outdoor air specific media criteria. **Evaluation Criteria** Green shading is site specific data; checked box indicates type of date or criteria met; hatched box indicates no criteria Residential Commercial/Industrial **All Scenarios** \boxtimes \boxtimes X Constituent Direct Volatilization Volatilization Direct Construction (LTCP Criteria & Site Contact to Outdoor Contact to Outdoor Air or Utility Maximum) Air Worker 0 to 5 ft bgs 5 to 10 ft bgs 0 to 5 ft bas 5 to 10 ft bas 0 to 10 ft bgs (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) **Analysis Required For All Tanks** Site Max < 0.010 < 0.010 < 0.010 < 0.010 <0.010 Benzene LTCP Criteria **⊠** ≤1.9 ⊠ ≤2.8 ⊠ ≤8.2 ⊠ ≤12 ⊠ ≤14 Site Max < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 Ethylbenzene LTCP Criteria ⊠ ≤21 ⊠ ≤32 ⊠ ≤89 ⊠ ≤134 ⊠ ≤314 Site Max < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 Naphthalene LTCP Criteria ⊠ ≤9.7 **⊠** ≤9.7 ⊠ ≤45 ⊠ ≤219 ⊠ ≤45 Analysis Required For Tanks with Waste Oil, Bunker C Fuel or Unknown Contents Site Max NR NR NR NR NR PAHs1 LTCP Criteria □ ≤0.063 □ ≤0.68 □ ≤4.5

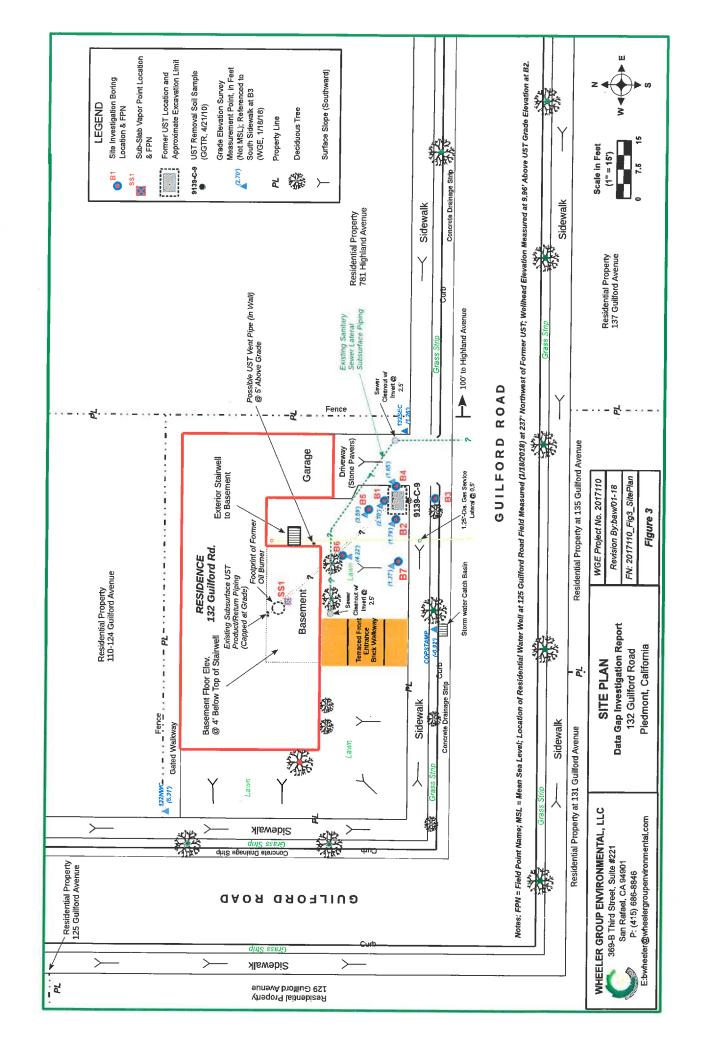
NR = Not Required NA = Not Analyzed

Notes:

- Based on the seven carcinogenic poly-aromatic hydrocarbons (PAHs) as benzo(a)pyrene toxicity equivalent (BaPe).
- 2. The area of impacted soil where a particular exposure occurs is ≤ 82 by 82 feet

Attachment 7 - Direct Contact Evaluation and Data

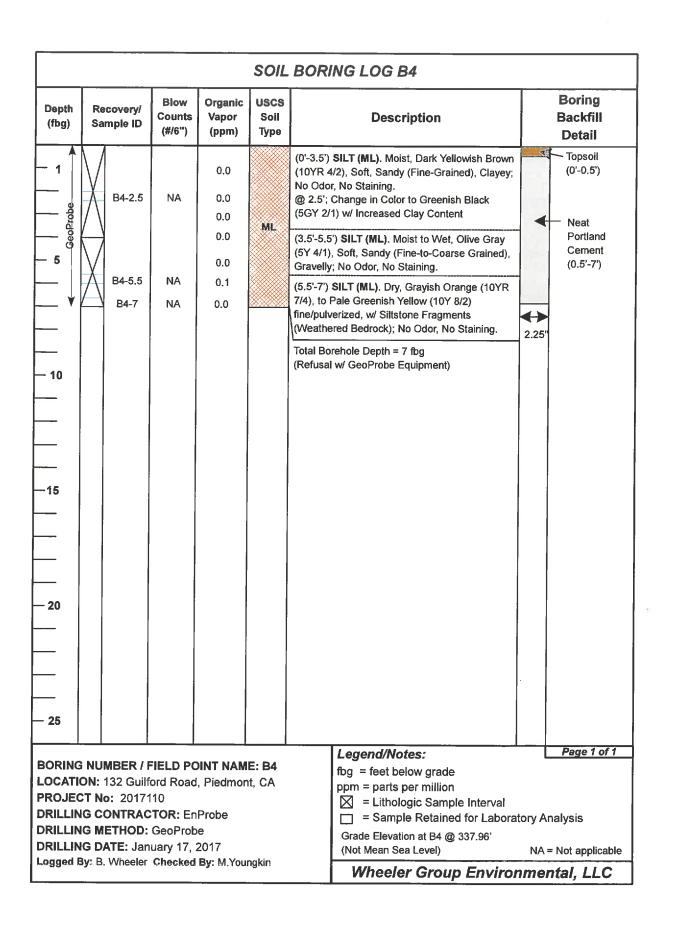
LTCP MEDIA SPECIFIC CRITERIA – DIRECT CONTACT AND OUTDOOR AIR EXPOSURE (CONTINUED)				
Location	Analysis			
Onsite	Maximum concentrations of hydrocarbons in soil are less than the concentrations in Table 1 for residential and construction worker exposure as defined by soil borings B-1 through B-7.			
Offsite	The petroleum hydrocarbon soil plume may extend beneath the public street based on soil samples collected; however, appropriately collected analytical data from beneath the sidewalk grass median strip indicates that the concentration in soil offsite are less than the concentrations in Table 1 for residential and construction worker exposure.			



Depth (fbg)	Recovery/ Sample ID	Blow Counts (#/6")	Organic Vapor (ppm)	USCS Soil Type	Description		Boring Backfill Detail
1	B1-3 B1-5 B1-6.5	NA NA	0.0 0.0 0.1	CL	(0'-2') CLAY (CL). Damp, Dark Yellowish Bri (10YR 4/2), Soft w/ Trace Coarse-Grained S and Root Material; No Odor / No Staining. (2'-3.5') SILT (ML). Damp to Moist, Grayish Orange (10YR 7/4) and Dark Yellowish Orar (10YR 6/6), Clayey, Soft w/ Trace Sandstone Fragments; No Odor, No Staining. (3.5'-6.5') SILT (ML). Damp, Pale Yellowish Brown (10YR 6/2), fine/pulverized, w/ Siltsto Fragments (Weathered Bedrock); No Odor, Staining. Total Borehole Depth = 6.5 fbg (Refusal w/ GeoProbe Equipment)	gge	1
OCATIO ROJEC RILLIN RILLIN RILLIN	NUMBER / DN: 132 Guil T No: 2017 G CONTRAC G METHOD G DATE: Jai by: B. Wheeler	ford Road 110 CTOR: En GeoProb nuary 17,	, Piedmon Probe e 2017	t, CA	Legend/Notes: fbg = feet below grade ppm = parts per million ☐ = Lithologic Sample Interv ☐ = Sample Retained for La Grade Elevation at B1 @ 339.01' (Not Mean Sea Level) Wheeler Group Env	ooratory A	= Not applicabl

Depth (fbg)	Recovery/ Sample ID	Blow Counts (#/6")	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
	B2-2.5 B2-5 B2-6	NA NA	0.0 0.0 0.0 0.0 0.0	ML	@ 5"; Unange in Color to Pale Yellowish Brown	Neat Portland Cement (0.5'-6')
PROJECT DRILLING DRILLING	NUMBER / FON: 132 Guilfo T No: 20171 G CONTRAC G METHOD: 6 G DATE: January By: B. Wheeler	ord Road 10 TOR: En GeoProb uary 17, 2	, Piedmon Probe e 2017	nt, CA	Legend/Notes: fbg = feet below grade ppm = parts per million	NA = Not applic

			<u> </u>		SOIL	. BORI	NG LOG B3		
Depth (fbg)		overy/	Blow Counts (#/6")	Organic Vapor (ppm)	USCS Soil Type		Description		Boring Backfill Detail
- 1 - 1	\bigvee	B3-2.5	NA	0.0	SM	Brown (SAND (SM). Moist, Dark Yellowish 10YR 4/2), Fine-Grained, Clayey; No o Staining.		Grass / Topsoil (0'-0.5')
GeoProbe		B3-4	NA NA	4.4		Yellowis Orange	') SILT (ML). Dry to Damp, Pale th Brown (10YR 6/2) and Dark Yellowish (10YR 6/6), fine/pulverized, w/ Siltstone	4	Neat
5	X	B3-5	NA	0.1		Odor, N	k Fragments (Weathered Bedrock); No o Staining . @ 6.5' with GeoProbe (1/17/18)	2.25"	Cement (0.5'-14')
		B3-6.5	NA	0.0	ML	(6.5'-9.5 Yellowis Gray (5) Fragmer	") SILT (ML). Dry to Damp, Dark th Brown (10YR 4/2) and Light Olive ('5/2), fine/pulverized, w/ Siltstone hts (Weathered Bedrock); No Odor, No . Described from Auger Cuttings	8.25"	
Rotary HSA	X	B3-10	NA	0.0		Yellowisi 6/2, 4/2) Fragmer	SILT (ML). Dry to Damp, Pale th Brown to Dark Yellowish Brown (10YR , Fine/Pulverized, w/ Siltstone and Rock hts (Weathered Bedrock); No Odor, No . Described from Auger Cuttings		
	X	B3-14	NA	0.0		11'-13' (I	Not Logged – No Samples Collected)		
—15 ——			NA	0.0		Yellowisl Siltstone Bedrock Auger Co Total Bo	SILT (ML). Dry to Damp, Pale in Brown (10YR 6/2), Fine/Pulverized, w/ and Rock Fragments (Weathered); No Odor, No Staining. Described from uttlings rehole Depth = 14 fbg (Refusal w/ ISA Rig on 1/18/18)		
						(Votaly I	SANG OIL (710/10)		
<u> </u>									
L									
<u> </u>									
<u> </u>				!					
— 25									
LOCATION PROJECT DRILLING DRILLING DRILLING	ON: 13 T No: G CO G ME G DA	32 Guilfe : 20171 NTRAC THOD: TE: Jan	ord Road 10 TOR: En GeoProb uary 17 8	Probe e/Rotary I & 18, 2018 By: M.You	HSA		Legend/Notes: fbg = feet below grade ppm = parts per million	NA:	= Not applicable
20					J		Wheeler Group Environ	nme	ntal, LLC



' Counts Vanor Soil Description Rackfill						SOIL	BORING LOG B5		
Material; No Odor, No Staining. (2'-4.5') SILT (ML). Damp, Grayish Orange (10YR 7/4) and Dark Yellowish Orange (10YR 7/4) and Dark Yellowish Orange (10YR 7/4) to Very Pale Orange (10YR 8/2), fine/pulverized, w/ Siltstone Fragments (Weathered Bedrock); No Odor, No Staining. (8.5'-13') SILT (ML). Damp, Grayish Orange (10YR 8/2), fine/pulverized, w/ Siltstone Fragments (Weathered Bedrock); No Odor, No Staining. (8.5'-13') SILT (ML). Dry to Damp, Light Olive Gray (5Y 5/2) (@ 8.5 fbg (Refusal w/ GeoProbe Equipment)) (8.5'-13') SILT (ML). Dry to Damp, Light Olive Gray (5Y 5/2), fine/pulverized, w/ Siltstone Fragments (Weathered Bedrock); No Odor, No Staining. Described from Auger Cuttings Total Borehole Depth = 13 fbg (Refusal w/	Depth (fbg)		-	Counts	Vapor	Soil	Description		Backfill
B5-5 NA 0.0 (10YR 7/4) and Dark Yellowish Orange (10YR 6/6), Slightly Clayey, w/ Fine-Grained Sand; No Odor / No Staining. B5-7 NA 0.0 (4.5'-8.5') SILT (ML). Damp, Grayish Orange (10YR 8/2), fine/pulverized, w/ Siltstone Fragments (Weathered Bedrock); No Odor, No Staining. © 7.5'-8.5'; Change in Color to Light Olive Gray (5Y 5/2) (@ 8.5 fbg (Refusal w/ GeoProbe Equipment)) (8.5'-13') SILT (ML). Dry to Damp, Light Olive Gray (5Y 5/2), fine/pulverized, w/ Siltstone Fragments (Weathered Bedrock); No Odor, No Staining. D5-13 NA 0.0 Staining. Described from Auger Cuttings Total Borehole Depth = 13 fbg (Refusal w/	1 - 1 - Hand		5-2.5	NA	0.0		(10YR 2/2) to Dark Yellowish Brown (10YR 4/2), Sandy (Fine-Grained) Clayey, Soft w/ Root Material; No Odor, No Staining.		Class / Topsoi
(10YR 7/4) to Very Pale Orange (10YR 8/2), fine/pulverized, w/ Siltstone Fragments (Weathered Bedrock); No Odor, No Staining. @ 7.5'-8.5'; Change in Color to Light Olive Gray (5Y 5/2) @ 8.5 fbg (Refusal w/ GeoProbe Equipment) (8.5'-13') SILT (ML). Dry to Damp, Light Olive Gray (5Y 5/2), fine/pulverized, w/ Siltstone Fragments (Weathered Bedrock); No Odor, No Staining. Described from Auger Cuttings Total Borehole Depth = 13 fbg (Refusal w/	- 5 equile		85-5	NA	l	ML	(10YR 7/4) and Dark Yellowish Orange (10YR 6/6), Slightly Clayey, w/ Fine-Grained Sand;	4	Portland
Fragments (Weathered Bedrock); No Odor, No Staining. Described from Auger Cuttings Total Borehole Depth = 13 fbg (Refusal w/	— [— X	M					(4.5'-8.5') SILT (ML). Damp, Grayish Orange (10YR 7/4) to Very Pale Orange (10YR 8/2), fine/pulverized, w/ Siltstone Fragments (Weathered Bedrock); No Odor, No Staining. @ 7.5'-8.5'; Change in Color to Light Olive Gray (5Y 5/2)	†	
		В:	5-13	NA	0.0	ML	(8.5'-13') SILT (ML). Dry to Damp, Light Olive Gray (5Y 5/2), fine/pulverized, w/ Siltstone Fragments (Weathered Bedrock); No Odor, No Staining. Described from Auger Cuttings Total Borehole Depth = 13 fbg (Refusal w/		
	- 20 -								
20	25								
25	OCATI ROJEC RILLIN RILLIN	ON: 132 OT No: IG CON IG METI IG DATI	Guilf 2017 TRAC HOD:	ford Road 110 TOR: En GeoProb luary 17,	I, Piedmor Probe pe/Rotary / 2018	nt, CA	Legend/Notes: fbg = feet below grade ppm = parts per million		
Legend/Notes: Page 1 of 1	.ogged I	3y: B. W!	neeler	Checked	By: M.You	ngkin	Wheeler Group Enviror	nmer	ital, LLC

Depth (fbg)	Recovery/ Sample ID	Blow Counts (#/6")	Organic Vapor (ppm)	USCS Soil Type	Description		Boring Backfil Detail
1 CeoProbe	B7-2.5	NA	0.0 0.0 0.0 0.0	ML	(0'-2.5') SILT (ML) . Damp to Moist, Dark Yellowish Brown (10YR 4/2), Soft w/ Coarse-Grained Sand & Root Material; No Odor, No Staining. (2.5'-5') SILT (ML) . Dry, Light Olive Gray to Olive Gray (5Y5/2,3/2),fine/pulverized, w/ Siltstone Fragments (Weathered Bedrock); No	4	Topsoil (0'-0.5') Neat Portlar Cemer (0.5'-5'
_ 5 V	B7-5	NA	0.0		Odor, No Staining. Total Borehole Depth = 5 fbg (Refusal w/ GeoProbe Equipment) Note: B7 Drilled at 30 Degree Angle from Vertical Plane (Y Axis)	2.25"	
— 10 —— ——							
—15 —— ——							
— 20 ——							
 25							5
LOCATION PROJECT	NUMBER / FON: 132 Guilfo T No: 20171 G CONTRAC G METHOD:	ord Road, 10 TOR: Enl	, Piedmon Probe		Legend/Notes: fbg = feet below grade ppm = parts per million ☐ = Lithologic Sample Interval ☐ = Sample Retained for Labora Grade Elevation at B7 @ 337.68'	tory An	Page 1

Water Sample Laboratory Analysis Results for Petroleum Hydrocarbons **TABLE 2**

UST Removal & Data Gap Investigation

132 Guilford Road, Piedmont, California

	:	:	Results	in microgra	Results in micrograms per Liter (ug/L)	' (ng/L)				
Field Point Name / Sample ID	Sampling Date	Depth Feet	TPH as Diesel	TPH as Motor Oil	Benzene Toluene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	Naphtha
			hg/L	hg/L	Hg/L	7/bh	T/6H	nd/L	na/L	na/L
			SN	T Remova	UST Removal - April 2010	0				
9139-PW 1	Perched 04/21/2010 Water in	Perched Water in	11,000	Š	ND (0.6)	7.	(9.0) QN	4.7	(1) CN	δ Z
		Drum					()			
			Data Gap	Investiga	Data Gap Investigation - January 2018	nry 2018				
125 Guilford / 125GII 01/18/2018 Spigot	01/18/2018	Spigot	ND (28)	(29) QN	ND (67) ND (0.25) ND (0.17) ND (0.13) ND (0.40) ND (0.069) ND (0.22)	ND (0.17)	ND (0.13)	ND (0.40)	ND (0.069)	ND (0.22)
120 Hazel / 120HAZI 01/18/2018	01/18/2018	Spigot	ND (28)	ND (68)	ND (0.25) ND (0.17) ND (0.13) ND (0.40) ND (0.069) ND (0.22)	ND (0.17)	ND (0.13)	ND (0.40)	ND (0.069)	ND (0.22)
SF BAY RWQCB February 2016 Tier 1 ESL	bruary 2016 Tie	er 1 ESL	100	Note 2	1	40	13	20	5	0.12

Table 2 Notes

Abbreviations:

TPH = total petroleum hydrocarbons; MTBE - Methyl tertiary butyl ether; Naphtha = Naphthalene

ND = Not Detected above Method Detection Limit (MDL) shown in parentheses, unless otherwise noted

NA = Not Analyzed

NM = Not Measured

Notes:

1 = Sample also analyzed for Fuel Oxygenates, with results in ug/L: 1,2-Dibromoethane (ND<0.4); 1,2-Dichloroethane (ND<0.6);

Di-Isopropyl ether (ND<1); Ethyl Tert Butyl Ether (ND<1); Tert-Amyl Methyl Ether (ND<1); Tert-Butyl Alcohol (ND<10).

² = Tier I ESL has Note 3 on Table on Page 2 as follows: "TPH motor oil is not soluble. TPH motor oil in water most likely are petroleum degradates

Tier 1 ESL = SF Bay Regional Water Quality Control Board (February 2016) Environmental Screening Level

TABLE 1
Soil Sampling & Laboratory Analysis Results
UST Removal & Data Gap Investigation
132 Guilford Avenue, Piedmont, CA

	:	:		Res	sults in milligrams	Results in milligrams per kilogram (mg/kg)	1/kg)			
Field Point Name / Sample ID	Sampling Date	Depth Feet	Field VOCs ppm*	TPH-DRO 1	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	MTBE
					UST Remova	UST Removal - April 2010				
9139-C-9 ²	04/21/2010	6	ΣZ	217	ND(0.072)	ND(0.072)	ND(0.072)	ND(0.19)	₹ Z	ND/0 048)
9139-SP(A-D)Comp ²	04/21/2010	ΑN	NM	5080	ND(0.15)	ND(0.15)	ND(0.15)	ND(0.4)	₹ Z	ND(0.13)
				_	ta Gap Investiga	Data Gap Investigation - January 2018	1			
B1 / B1-3	01/17/2018	က	0.0	2.45 3	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	VO 010)	(010 V) OIN
B1/B1-5	01/17/2018	2	0.0	ND (2.0)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
B1 / B1-6.5	01/17/2018	6.5	0.1	ND (2.0)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	NO (0.010)
B2 / B2-2.5	01/17/2018	2.5	0.0	6.15 4	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
B2 / B2-5	01/17/2018	2	0.0	7.37 4	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
B2 / B2-6	01/17/2018	9	0.0	2.00 4	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
B3 / B3-2.5	01/17/2018	2.5	6.0	231 5	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
B3 / B3-4	01/17/2018	4	4.4	A 282 5	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	(0.010) ND (0.010)
B3 / B3-5	01/17/2018	IJ	0.1	11.74	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	(0.010) (0.010)	(0.010) ND (0.010)
B3 / B3-6.5	01/17/2018	6.5	0.0	12.7 5	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	(0.010) ND (0.010)	(0.010) ND (0.010)
B3 / B3-10	01/18/2018	10	0.0	4.834	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	(0.010) (0.010)	(0.010) (0.010) (0.010)
B3 / B3-14	01/18/2018	14	0.0	2.19 4	ND (0.010)	ND (0.010)	ND (0 010)	(0.010) GN	(0:010) ND (0.010)	ND (0.010)
B4 / B4-2.5	01/17/2018	2.5	0.0	ND (4.0)	ND (0.010)	ND (0.010)	ND (0:010)	(0.010) (0.010) (0.010)	ND (0.010)	ND (0.010)
B4 / B4-5.5	01/17/2018	5.5	0.1	2.76 4	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
B4 / B4-7	01/17/2018	7	0.0	2.02	ND (0.010)	ND (0.010)	(0.010) ND (0.010)	(0.010) ND (0.010)	ND (0.010)	ND (0.010)
B5 / B5-2.5	01/17/2018	2.5	0.0	2274	(0.010) (0.010)	(0:010) (0 0010)	(0:010) (0:010) (0:010)	(0.010)	ND (0.010)	(0.010) UN
B5 / B5-5	01/17/2018	ري ا	0.0	(0 C) CIN	(0.010) (0.010)	(0.010) (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
B5 / B5-7	01/17/2018	7	0.0	ND (2.0)	ND (0.010)	(0.010) (0.010)	(0.010) ND (0.010)	(0.010) (0.010)	ND (0.010)	ND (0.010)
B5 / B5-8.5	01/17/2018	8.5	0.0	3 34 4	(0.0.0) UN	(0:010) ND (0.010)	(0.010) ND (0.040)	ND (0.010)	ND (0.010)	(0.0.0) CIN
BF / BF 13	04/47/0040	, ,	9 0	4	(0.0.0)	(0.0.0)	(0.0.0) AN	(0.0.0) ON	ND (0.010)	ND (0.010)
	01/1//2010	2	0.0	1	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
67 / 67-2.5	01/1//2018	2.5	0.0	2.66 [‡]	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
B7 / B7-5	01/17/2018	2	0.0	2.36 4	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)
SF BAY RWQCB February 2016 Tier 1 ESL	B February 20	16 Tier 1	1 ESL	230	0.044	2.9	1.4	2.3	0.033	0.023

Table 2 Abbreviations and Notes on Following Page

TABLE 1 (Cont'd) Soil Sampling & Laboratory Analysis Results Data Gap Investigation

132 Guilford Avenue, Piedmont, CA

Table 1 Notes

Abbreviations:

TPH = total petroleum hydrocarbons; MTBE - Methyl tertiary butyl ether

ND = Not Detected above Practical Quantitation Limit (PQL) shown in parentheses

NA = Not Analyzed

NM = Not Measured

Notes:

1 - DRO (Diesel Range Organics) = C10-C28

2 - Sample also analyzed for 1,2-EDB=1,2-Dibromoethane; 1,2-EDC=1,2-Dichloroethane; DIPE=Di-Isopropyl ether; ETBE=Ethyl Tert Butyl Ether; TAME=Tert-Amyl Methyl Ether; TBA=Tert-Butyl Alcohol (All results ND<MDL; See GGTR UST Closure Report, dated May 18, 2010);

Stockpile Sample also analyzed for Total Lead (Result = 45.4 mg/kg)

3 - Diesel result due to over-lapping of oil range into diesel range.

4 - Presence of discrete peaks not typical of diesel reference pattern.

5 - Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified

Measured uisng calibrated photoionization detector (PID)

Tier 1 ESL = SF Bay Regional Water Quality Control Board (February 2016) Environmental Screening Level

Soil Vapor Sampling & Laboratory Analysis Results **Data Gap Investigation** 132 Guilford Road, Piedmont, CA TABLE 3

Results in micrograms per cubic meter (µg/m³)

Hexane	17 ND (44) NA	뿐
МТВЕ	ND (1.8) ND (45) NA	5400
Naphthalene	ND (2.6) ³ ND (66) ⁴ NA	41
Total Xylenes	4.6 ND (54) NA	52000
Ethylbenzene	ND (2.2) ND (54) NA	260
	8.4 ND (47) NA	160000
Benzene Toluene	ND (1.6) 8.4 ND (40) ND (47) NA NA	48
2-Propanol / B IPA	9800 8900 230000	B B
Diesel Range Organics	ND (25) ² NA NA	68000
Sample Intake, Feet Above Grade	Sub-slab Sub-slab Shroud (1')	Sub-Slab/ Soil Gas
Sample Location	Furnace Room Furnace Room Furnace Room	1 ESL
Sample Type	02/01/18 Sub-Slab Vapor 02/01/18 Sub-Slab Vapor 02/01/18 Shroud	SF BAY RWQCB February 2016 Tier 1 ESL <u>es</u>
Sampling Date	02/01/18 Su 02/01/18 Su 02/01/18	Y RWQCB F
Field Point Name / Sampling Sa Sample ID Date	SS1 1 SS1 / SS1 DUP SS1SHROUD	SF BAY Table 3 Notes

ND = Not Detected above Practical Quantitation Limit (PQL) shown in parentheses, unless otherwise noted Abbreviations:

NA = Not Analyzed NE = Not Established

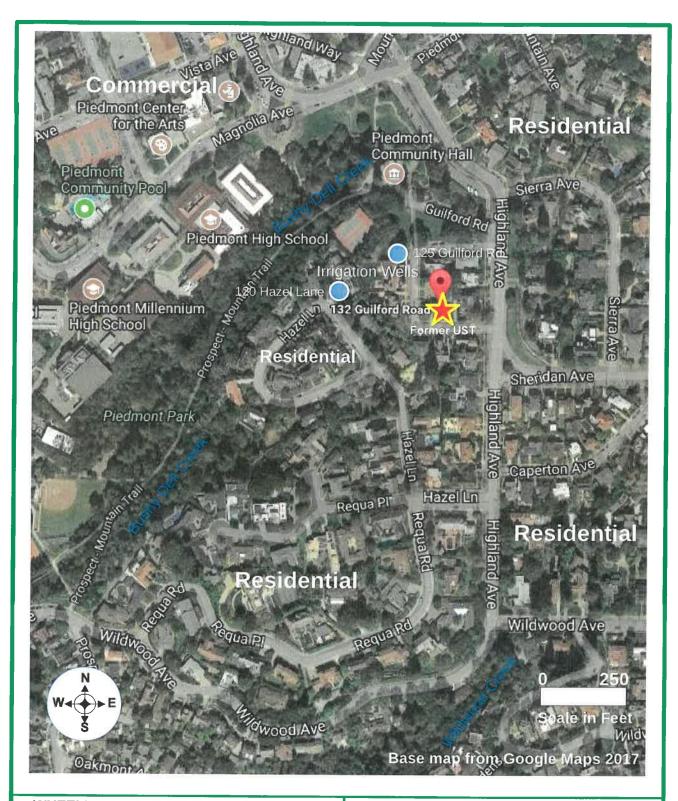
IPA=isopropyl alcohol, MTBE=methyl tertiary butyl ether

1 - Sample Additionally Analyzed for Oxygen (3.7%), Carbon Dioxide (7.3%) & Methane (ND<0.18%) by ASTM D1946

2 - Collected in Thermal Desorption Tubes (2) and Analyzed by EPA Method TO-17

3 – Naphthalene Analyzed by EPA Method TO-15 (ND<2.6 µg/m³) and by EPA Method TO-17 (ND<5.0 µg/m³); reported using Practical Quantitation Limit 4 – Naphthalene Analyzed by EPA Method TO-15 (ND<66 µg/m³); reported using Practical Quantitation Limit

Tier 1 ESL = SF Bay Regional Water Quality Control Board (February 2016) Environmental Screening Level



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WGE No. 2017110

FN: 2017110_Fig2_SiteVicinityMap_Feb2018.odg

SITE VICINITY MAP

Data Gap Investigation Report

132 Guilford Road, Piedmont, California

Drawing: MY Feb. 2018

Figure 2



Figure 6

Drawing By: MY Feb. 2018

FN: 2017110_Fig6_PlumeMap_Feb2018.odg

Project No. 2017110

132 Guilford Road, Piedmont, CA

