ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

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

September 4, 2014

Pam Hopkins
East Bay Municipal Utility District
Environmental Compliance Section
375 11th Street, Mail Stop 59
Oakland, CA 94607
(sent via email to phopkins@ebmud.com)

Subject: Case Closure for Fuel Leak Case No. RO0002531 (Global ID T06019711046), EBMUD Pump Station, 1001 Red Line Avenue, Alameda, CA 94501

Dear Ms. Hopkins:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25296.10[g]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter 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).

If you have any questions, please call Matthew Soby at (510) 567-6725. Thank you.

Sincerely,

Dilan Roe

Dilan Roe, P.E.
LOP and SCP Program Manager

Enclosures:
1. Remedial Action Completion Certification
2. Case Closure Summary

Cc w/enc.:

Cheri McCaulou, San Francisco Regional Water Quality Control Board, 1515 Clay Street, Suite 1400, Oakland, CA 94612 (sent via e-mail to cmccaulou@waterboards.ca.gov)

Andrew Thomas, City of Alameda Community Development, 2263 Santa Clara Ave., Room 190, Alameda, CA 94501-4477 (sent via e-mail to athomas@ci.alameda.ca.us)

Mark Gomez, Oakland Public Works, 250 Frank Ogawa Plaza, Suite 5301, Oakland, CA 94612 (sent via e-mail to mmgomez@oaklandnet.com)

Ken Minn, East Bay Municipal Utility District, P.O. Box 24055, Oakland, CA 94623 (sent via e-mail to kminn@ebmud.com)

Eric Fonstein, City of Alameda Community Development, 2263 Santa Clara Ave., Room 190, Alameda, CA 94501-4477 (sent via e-mail to efonstei@ci.alameda.ca.us)

Derek Robinson, Navy, 1455 Frazee Road, Suite 900, San Diego, CA 92108

Case Worker (sent via electronic mail to matthew.soby@acgov.org)

e-File, GeoTracker

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

REMEDIAL ACTION COMPLETION CERTIFICATION

September 4, 2014

Pam Hopkins
East Bay Municipal Utility District
Environmental Compliance Section
375 Eleventh Street MS #59
Oakland, CA 94607-4240
(sent via email to phopkins@ebmud.com)

Subject: Case Closure Fuel Leak Case No. RO0002531 and GeoTracker Global ID T06019711046, EBMUD Pump Station, 1001 Red Line Avenue, Alameda CA 94501

Dear Responsible Party:

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 365-day 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,

Ariu Levi
Director

UST Case Closure Summary Form

Agency Information Date: September 4, 2014

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: 510-567-6772
Staff Person: Matthew Soby	Title: Hazardous Materials Technician

Case Information

Facility Name: EBMUD Pump Station		
Facility Address: 1001 Red Line Avenue, Alameda, CA 94501		
RB LUSTIS Case No: ----	Local Case No.: ----	LOP Case No.: RO0002531
URF Filing Date: ----	Sweeps No.: ----	
GeoTracker Global ID: T06019711046	APN: 074 089000102	
Current Land Use: Industrial		
Responsible Party(s):	Address:	Phone:
Pam Hopkins, East Bay Municipal Utility District	375 11th Street, Mail Stop 59, Oakland, CA 94607	(510) 287-1326

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
----	1,000	Diesel	Removed	March 2002

LTCP Groundwater Specific Criteria (Attachment 1)

LTCP Vapor Specific Criteria (Attachment 2)

LTCP Direct Contact and Outdoor Air Exposure Criteria (Attachment 3)

Conceptual Site Model (GeoTracker CSM Report Attachment 4)

Closure Criteria Met (GeoTracker LTCP Checklist Attachment 5)

Site Maps and Reports

Attachment 6 Aerial Photo, Site Vicinity Map, Site Plan and Sample Location Map (3 pp)

Attachment 7 UST Closure/Removal Field Inspection Report (1 pp)

Analytical Data Attachment

Attachment 8 Tank Pit Water and Soil Analytical Data (4 pp)

Additional Information:

Water Supply Wells in Vicinity:

Alameda County Public Works Agency (ACPWA) water well survey indicate no domestic wells within a 2,000 foot radius of the site on Alameda Island south of the Oakland Inner Harbor Channel. The Oakland Harbor Channel presents a natural hydrologic barrier to northward groundwater migration.

Per ACPWA, an irrigation well (known as the "Old Army Well", Well #176) exists for Navy purposes approximately 1,600 feet east. This irrigation well is referenced in closed fuel leak cases with GeoTracker Global ID T0600109975 and GeoTracker Case ID T10000001392.

GeoTracker Groundwater Ambient Monitoring & Assessment Program (GAMA) well status indicate no Dept. of Public Health (DPH) supply wells within 0.5 miles of this site.

Site Management Requirements:

Based on this evaluation, no site management requirements appear to be necessary. However, excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

Based upon the information available in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time. However, as specified in the Site Management Requirements, re-evaluation of this case is required if land uses changes to any residential or other conservative land use, or any redevelopment occurs. Current land use is industrial.

RWQCB Notification

Notification Date: December 20, 2013

RWQCB Staff Name: Cherie McCaulou	Title: Engineering Geologist

Local Agency Representative

Prepared by: Matthew Soby	Title: Hazardous Materials Technician
Signature: Matthew Soby	Date: 09/03/2014
Approved by: Dilan Roe	Title: LOP and SCP Program Manager
Signature: Dilan Roe	Date: 9/3/2014

This Case Closure Summary along with the Case Closure Transmittal letter and 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. The Conceptual Site Model may not contain all available data. Additional information on the case can be viewed in the online case file. The entire case file can be viewed over the Internet on the Alameda County Environmental Health (ACEH) 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). Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the ACEH website.

ATTACHMENT 1

Attachment 1

LTCP GROUNDWATER SPECIFIC CRITERIA						
LTCP Groundwater Specific Scenario under which case was closed: **Scenario 1**.						
Site Data			LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3 Criteria	LTCP Scenario 4 Criteria
Plume Length	< 100 feet.		<100 feet	<250 feet	<250 feet	<1,000 feet
Free Product	No free product observed during UST removal.		No free product	No free product	Removed to maximum extent practicable	No free product
Plume Stable or Decreasing	Decreasing.		Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 Years	Stable or decreasing
Distance to Nearest Water Supply Well	1,600 feet-cross gradient.		>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Distance to Nearest Surface Water and Direction	450 feet south of Oakland Inner Harbor. Groundwater flow direction not established, but assumed north towards the harbor.		>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Property Owner Willing to Accept a Land Use Restriction?	----		Not applicable	Not applicable	Yes	Not applicable
GROUNDWATER CONCENTRATIONS (Tank Pit Excavation Water, 6 feet bgs)						
Constituent	Historic Site Maximum (ug/L)	Current Site Maximum (ug/L)	LTCP Scenario 1 Criteria (ug/L)	LTCP Scenario 2 Criteria (ug/L)	LTCP Scenario 3 Criteria (ug/L)	LTCP Scenario 4 Criteria (ug/L)
Benzene	<0.50	<0.50	No criteria	3,000	No criteria	1,000
MTBE	<2.5	<2.5	No criteria	1,000	No criteria	1,000
Ethylbenzene	<0.50	<0.50	----	----	----	----
Naphthalene	Not Analyzed		----	----	----	----
PAH	Not Analyzed		----	----	----	----
TPH-D	2,400	2,400	----	----	----	----
Scenario 5: If the site does not meet scenarios 1 through 4, has a determination been made that under current and reasonably expected future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame?			----			
COMMENTS: The site lies less than 1,000 feet from the Oakland Inner Harbor in a silty sand soil matrix. The groundwater concentration for TPH-D (2,400 ug/L) exceeds the RWQCB Surface Water Screening Level for Estuary Habitat ESL (640						

ug/L). However, Method 8015M performed without silica gel cleanup likely yields a high bias due to non-TPH organic content and proximity to San Francisco Bay and Oakland Harbor.

Additionally, UST removal report observations do not indicate a release. The report documents the fiberglass tank was intact and had no holes, no cracks, or other signs of failure. No holes or odors were documented in related product piping. No soil discoloration, no odors, no sheen, or other signs of a release were noted in the piping trench or UST pit.

ATTACHMENT 2

Attachment 2

LTCP VAPOR SPECIFIC CRITERIA							
LTCP Vapor Specific Scenario under which case was closed: **Scenario 3A**							
Active Fueling Station	Active as of: Not applicable						
Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3A Criteria	LTCP Scenario 3B Criteria	LTCP Scenario 3C Criteria	LTCP Scenario 4 Criteria
Unweathered NAPL	No NAPL	LNAPL in groundwater	LNAPL in soil	No NAPL	No NAPL	No NAPL	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	Six (6) feet [A]	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	≥5 feet
Total TPH (soil) in Bioattenuation Zone	< 5.0 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg
Maximum Current Benzene Concentration in Groundwater	< 0.50 ug/L	No criteria	No criteria	<100 ug/L	≥100 and <1,000 ug/L	<1,000 ug/L	No criteria
Oxygen Data within Bioattenuation Zone	No oxygen data	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4% at lower end of zone	≥4% at lower end of zone
Depth of soil vapor measurement beneath foundation	Not measured	No criteria	No criteria	No criteria	No criteria	No criteria	≥5 feet

SCENARIO 4 DIRECT MEASUREMENT OF SOIL VAPOR CONCENTRATIONS						
Site Soil Vapor Data			No Bioattenuation Zone		Bioattenuation Zone	
Constituent	Historic Maximum ($\mu g/m^3$)	Current Maximum ($\mu g/m^3$)	Residential	Commercial	Residential	Commercial
Benzene	**----**	**----**	<85	<280	<85,000	<280,000
Ethylbenzene	**----**	**----**	<1,100	<3,600	<1,100,000	<3,600,000
Naphthalene	**----**	**----**	<93	<310	<93,000	<310,000
If the site does not meet scenarios 1 through 4, does a site-specific risk assessment for the vapor intrusion pathway demonstrate that human health is protected?					**----**	
If the site does not meet scenarios 1 through 4, has a determination been made that petroleum vapors from soil or groundwater will have no significant risk of adversely affecting human health?					**----**	

COMMENTS:

[A] Soil stockpile from the UST excavation (4-point composite, 6 feet total depth) and tank pit excavation water (sampled at 6 feet below ground surface (bgs)) utilized to assess vertical bioattenuation zone distance. No volatiles (BTEX) in soil or tank pit excavation water. TPH-D concentrations were detected in tank pit excavation water only. Naphthalene was not sampled in soil or groundwater. Based on CA SWRCB LUFT Manual, September 2012, average fresh diesel contains 0.26% to 0.8%

naphthalene. Soil TPH-D concentration was reported at < 5.0 mg/kg. This translates to 0.013 to 0.04 mg/kg of naphthalene. Additionally, the site has a minimum five foot bioattenuation zone, therefore the site is considered low risk for vapor intrusion to indoor air. Soil and water analytical data indicate a lack of VOC source in sufficient concentration to warrant a vapor intrusion risk.

ATTACHMENT 3

Attachment 3

LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA						
LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed: **Exemption - No petroleum hydrocarbons in soil**						
Are maximum concentrations less than those in Table 1 below?		Yes				
Constituent		Residential [a]		Commercial/Industrial [a]		Utility Worker [a]
		0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) (mg/kg)	0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) (mg/kg)	0 to 10 feet bgs (mg/kg)
Site Maximum	Benzene	0.0050	0.0050	0.0050	0.0050	0.0050
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	0.0050	0.0050	0.0050	0.0050	0.0050
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene [b]	----	----	----	----	----
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs [b]	----	----	----	----	----
LTCP Criteria	PAHs	≤0.063	NA	≤0.68	NA	≤4.5
If maximum concentrations are greater than those in Table 1, are they less than levels from a site-specific risk assessment?		**----**				
If maximum concentrations are greater than those in Table 1, has a determination been made that the 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 controls?		**----**				

COMMENTS:

[a] Soil sample analyzed from 6-foot deep UST excavation stockpile four-point composite. Grab soil samples were not collected below six feet bgs.

[b] Naphthalene and PAHs were not analyzed. Direct Contact and Outdoor Air Exposure: Naphthalene and PAHs were not sampled in soil or groundwater. Based on SWRCB LUFT Manual, September 2012, average fresh diesel contains 0.26% to 0.8% naphthalene and <0.01% PAHs. Composite soil TPH-D concentration was reported at less than 5.0 mg/kg. This translates to 0.013 to 0.04 mg/kg of naphthalene and 0.0005 mg/kg of PAHs. For soil direct contact and outdoor air exposure, the maximum potential naphthalene and PAH concentrations would likely be less than LTCP screening criteria.

SITE MANAGEMENT REQUIREMENTS

This fuel leak case has been evaluated for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Based on this evaluation, no site management requirements appear to be necessary. However, excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

LAND USE RESTRICTIONS

Alameda County Environmental Health staff believe that the site meets the conditions for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. Based upon the information available in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time. However, as specified in the Site Management Requirements, re-evaluation of this case is required if land uses changes to any residential or other conservative land use, or any redevelopment occurs. Current land use is industrial.

ATTACHMENT 4

EBMUD PUMP STATION (T06019711046) - MAP THIS SITE

OPEN - ELIGIBLE FOR CLOSURE

1001 RED LINE AVENUE
ALAMEDA , CA 94501
ALAMEDA COUNTY

ACTIVITIES REPORT
PUBLIC WEBPAGE

VIEW PRINTABLE CASE SUMMARY FOR THIS SITE

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP *(LEAD)* - *CASE #: RO0002531*
CASEWORKER: *MATTHEW SOBY* - ***SUPERVISOR:*** *DILAN ROE*
SAN FRANCISCO BAY RWQCB (REGION 2) - *CASE #: NA*

THIS PROJECT WAS LAST MODIFIED BY ***DILAN ROE*** ON 9/2/2014 1:30:13 PM - HISTORY

CSM REPORT - VIEW PUBLIC NOTICING VERSION OF THIS REPORT

UST CLEANUP FUND CLAIM INFORMATION (DATA PULLED FROM SCUFIIS)

CLAIM NO	PRIORITY	CLAIMANT	SITE ADDRESS	AMT REIMB TO DATE	AGE OF LOC	IMPACTED WELLS?	FIVE YEAR REVIEW INFORMATION: REVIEW NUM	REVIEWER	FUND RECOMMENDATION	TO OVERSIGHT DATE	TO CLAIMANT DATE

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - MAP THIS SITE

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
EBMUD PUMP STATION (Global ID: T06019711046) 1001 RED LINE AVENUE ALAMEDA, CA 94501	Open - Eligible for Closure	8/4/2013	2/4/2003	12	ALAMEDA COUNTY LOP *(LEAD)* - *CASE #: RO0002531* ***CASEWORKER:*** *MATTHEW SOBY* - ***SUPERVISOR:*** *DILAN ROE* SAN FRANCISCO BAY RWQCB (REGION 2) - *CASE #: NA*

STAFF NOTES (INTERNAL)
<NO STAFF NOTES ENTERED>

SITE HISTORY
One 1,000-gallon fiberglass diesel UST associated with wastewater pump station was removed in March 2002. Fiberglass tank intact and no holes, cracks or other signs of failure observed. No holes or odors from piping. No discoloration, odors or other signs of a release noted in piping trench and UST pit. Groundwater was encountered in tank pit at 6 feet bgs (no odors observed or sheen on water); consequently soil samples beneath the UST were not collected. One 4-point composite stockpile soil sample was collected and concentrations were below appropriate reporting limits for all analytes tested (TPHd and BTEX and MTBE). A grab groundwater sample contained TPHd concentrations of 2,400 ug/L, however EPA Method 8015M was used without silica gel cleanup. Site is located immediately adjacent to Alameda Inner Harbor Channel, and therefore grab groundwater sample likely had high non TPH organic content and likely skewed TPH results. No further work has been conducted. No volatiles in soil or groundwater therefore site poses low risk under LTCP.

RESPONSIBLE PARTIES

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
PAM HOPKINS	EBMUD	375 11TH STREET, MAIL STOP 59	OAKLAND	

CLEANUP ACTION INFO
NO CLEANUP ACTIONS HAVE BEEN REPORTED

RISK INFORMATION VIEW LTCP CHECKLIST VIEW PATH TO CLOSURE PLAN VIEW CASE REVIEWS

CONTAMINANTS OF CONCERN	CURRENT LAND USE	BENEFICIAL USE	DISCHARGE SOURCE	DATE REPORTED	STOP METHOD	NEARBY / IMPACTED WELLS
Diesel	Industrial	GW - Municipal and Domestic Supply		2/4/2003	Close and Remove Tank	0

FREE PRODUCT	OTHER CONTITUENTS	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE	MOST RECENT CLOSURE REQUEST
NO	NO	EBMUD	12/20/2013				

CDPH WELLS WITHIN 1500 FEET OF THIS SITE
NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

APN	GW BASIN NAME	WATERSHED NAME
074 089000102	Santa Clara Valley - East Bay Plain (2-9.04)	South Bay - East Bay Cities (20420)

COUNTY
Alameda

PUBLIC WATER SYSTEM(S)

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER - HIDE VIEW ESI SUBMITTALS

NO GROUNDWATER DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL - HIDE **VIEW ESI SUBMITTALS**

NO SOIL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

MOST RECENT GEO_WELL DATA - HIDE **VIEW ESI SUBMITTALS**

NO GEO_WELL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

LOGGED IN AS MATTSOBY CONTACT GEOTRACKER HELP

ATTACHMENT 5

LTCP Checklist Go

EBMUD PUMP STATION (T06019711046) - MAP THIS SITE

OPEN - ELIGIBLE FOR CLOSURE

1001 RED LINE AVENUE
ALAMEDA , CA 94501
ALAMEDA COUNTY

VIEW PRINTABLE CASE SUMMARY FOR THIS SITE

ACTIVITIES REPORT

PUBLIC WEBPAGE

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP *(LEAD)* - *CASE #: RO0002531*
CASEWORKER: *MATTHEW SOBY* - ***SUPERVISOR:*** *DILAN ROE*
SAN FRANCISCO BAY RWQCB (REGION 2) - *CASE #: NA*

THIS PROJECT WAS LAST MODIFIED BY ***DILAN ROE*** ON 9/2/2014 1:30:13 PM - HISTORY

CLOSURE POLICY

THIS VERSION IS FINAL AS OF 9/2/2014

CHECKLIST INITIATED ON 8/4/2013

CLOSURE POLICY HISTORY

General Criteria - *The site satisfies the policy general criteria* - CLEAR SECTION ANSWERS — **YES**

a. Is the unauthorized release located within the service area of a public water system? — ◉ YES ○ NO
Name of Water System : EBMUD

b. The unauthorized release consists only of petroleum (info). — ◉ YES ○ NO

c. The unauthorized ("primary") release from the UST system has been stopped. — ◉ YES ○ NO

d. Free product has been removed to the maximum extent practicable (info). — ◉ FP Not Encountered ○ YES ○ NO

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed (info). — ◉ YES ○ NO

f. Secondary source has been removed to the extent practicable (info). — ◉ YES ○ NO

g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15. — ○ Not Required ◉ YES ○ NO

h. Does a nuisance exist, as defined by Water Code section 13050. — ○ YES ◉ NO

1. Media-Specific Criteria: Groundwater - *The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below.* - CLEAR SECTION ANSWERS — **YES**

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - Info) — ◉ **YES** ○ **NO**

2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - *The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c* - CLEAR SECTION ANSWERS — **YES**

EXEMPTION - Active Commercial Petroleum Fueling Facility — ○ **YES** ◉ **NO**

Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios? — ◉ **YES** ○ **NO**

2a - Scenario 3 (example): Dissolved Phase Benzene Concentrations Only in Groundwater (Low concentration groundwater scenarios with or without O2 measurements must satisfy one i, ii, or iii): — **YES**

i. For bioattenuation zone without oxygen measurements or oxygen <4% and benzene concentration are <100 µg/L, the bioattenuation zone: Is a continuous zone that provides a separation of at least 5 feet vertically between the dissolved phase benzene and the foundation of existing or potential building; and contain total TPH <100 mg/kg throughout the entire depth of the bioattenuation zone. — ◉ YES ○ NO

ii. For bioattenuation zone without oxygen measurements or oxygen <4% and benzene concentration are >100 µg/L but <1,000 µg/L, the bioattenuation zone: Is a continuous zone that provides a separation of at least 10 feet vertically between the dissolved phase benzene and the foundation of existing or potential building, and contain total TPH <100 mg/kg throughout the entire depth of the bioattenuation zone. — ○ YES ○ NO

iii. For bioattenuation zone with oxygen ≥ 4% and benzene concentration are <1,000 µg/L, the bioattenuation zone: Is a continuous zone that provides a separation of at least 5 feet vertically between the dissolved phase benzene and the foundation of existing or potential building, and contain total TPH <100 mg/kg throughout the entire depth of the bioattenuation zone. — ○ YES ○ NO

3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - *The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below.* - CLEAR SECTION ANSWERS — **YES**

EXEMPTION - The upper 10 feet of soil is free of petroleum contamination — ○ **YES** ◉ **NO**

Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios? — ◉ **YES** ○ **NO**

3.3 - The regulatory agency has determined the concentration of petroleum constituents in soil will have no significant risk or adversely affect human health. — ◉ YES ○ NO

Additional Information

This case should be kept OPEN in spite of meeting policy criteria. — ○ YES ◉ NO

Has this LTCP Checklist been updated for FY 14/15? — ◉ YES ○ NO

SPELL CHECK

Save Form as Partially Completed | Save Form as Complete

LOGGED IN AS MATTSOBY

CONTACT GEOTRACKER HELP

ATTACHMENT 6

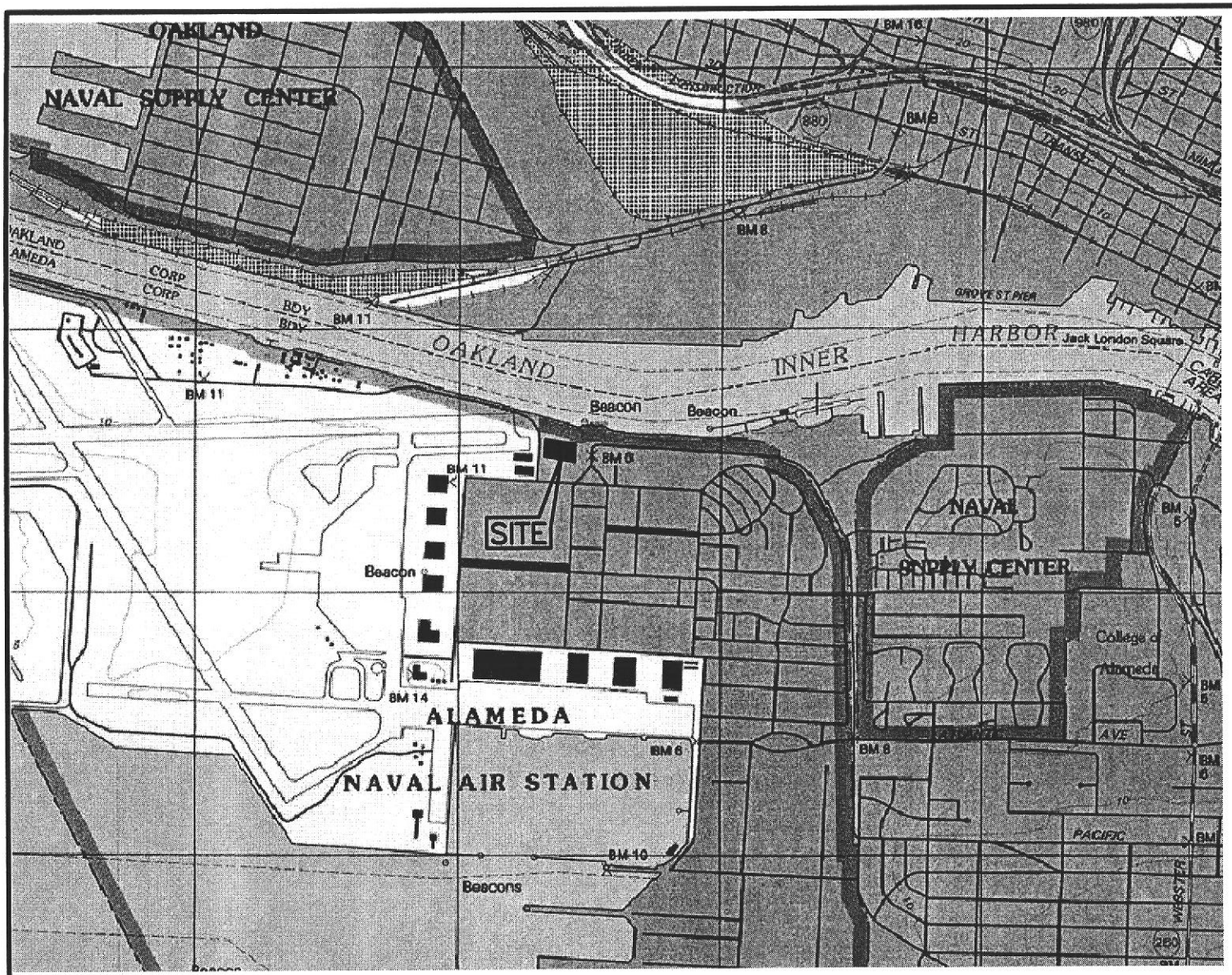
Google earth

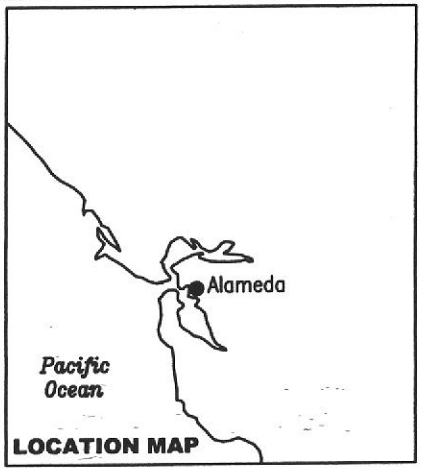
feet 1000

meters 500

Image date: 2/23/2014

Site Location





N

0 2000

Scale in Feet

Source: National Geographic California Seamless USGS Topographic Maps on CD-ROM.

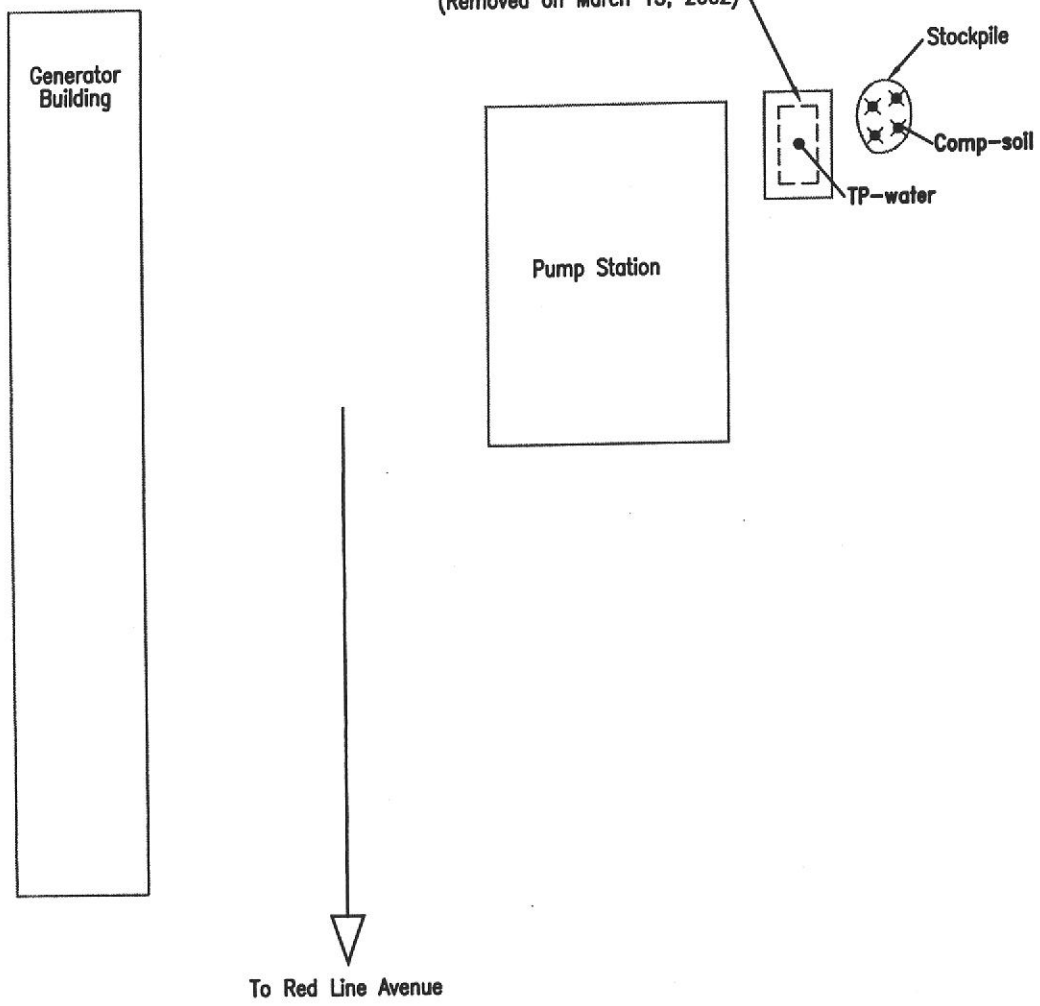
GETTLER-RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

VICINITY MAP
Alameda Naval Air Station
1001 West Red Line Avenue
Alameda, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
11121		4/02	

FILE NAME: P:\ENVIRO\ALAMADA\NAVAL-AIR\VIC-1001.DWG | Layout Tab: Vic Map



EXPLANATION

- • Water sample
- ✕ Stockpile sample

NOTE:
Stockpile soil was used as backfill material for tank pit.

N

0 20

Scale in Feet

Source: Figure modified from drawing provided by USGS and EBMUD (Grading and Paving Plan SD247-C-001, 1/01).

FIGURE 2

DIESEL UST PIT AND SAMPLE LOCATION MAP
Alameda Naval Air Station
1001 West Red Line Avenue
Alameda, California

GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
11121.05		4/02	

FILE NAME: P:\Enviro\Alamada\Naval\A02-1001.DWG | Layout Tab: Tank Removal 5-02

ATTACHMENT 7

UNDERGROUND STORAGE TANK CLOSURE/REMOVAL
FIELD INSPECTION REPORT

Facility Name: CBMUD / CITY OF ANAHEIM	~~STID:~~	Date: 3-13-02	
Facility Address: 1001 W. RINCON ROAD ANA	Contact on site: JIM REED		
Inspector: ROBERT WESTON	Contractor/Consultant: GETTLER RYAN		

General Requirements	Yes	No	N/A
Approved closure plan on site.			
Changes to approved plan noted.			
Residuals properly stored/transported.			
Receipt for adequate dry ice noted.			

General Requirements	Yes	No	N/A
Site Safety Plan properly signed.			✓
40B:C fire extinguisher on site.	✓		
"No Smoking" signs posted.	✓		
Gas detector challenged by inspector.			✓

Tank Observations	T #1	T #2	T #3	T #4
Tank Capacity (gallons)	1000			
Material last stored	DIESEL			
Dry ice used (pounds)	50			
Combustible gas concentration as %LEL. *(Note time & sampling point)*				
(1) 3/13 2:25PM	3			
(2)				
(3)				
Oxygen concentration as % volume. *(Note time &sampling point.)*				
(1) 3/13 2:25PM	0			
(2)				
(3)				
Tank Material	FRP			
Wrapping/Coating, if any	NA			
Obvious holes?	NONE			

Tank Observations	T #1	T #2	T #3	T #4
Obvious corrosion?	NO			
Obvious odors from tank?	NO			
Seams intact?	YES			
Tank bed backfill material	GRAVEL			
Obvious discoloration?	NO			
Obvious odors ex tank bed?	NO			
Water in excavation?	YES			
Sheen/product on water?	NO			
Tank tagged by transporter?				
Tank wrapped for transport?				
Tank plugged w/ vent cap?	YES			
Date/time tank hauled off?	3/13/02			
No. of soil samples taken?				
Depth of soil samples (ft. bgs)				

Piping Removal	Yes	No	N/A
All piping removed hauled off w/ tanks?			
Obvious holes on pipes?		✓	
Obvious odors from pipes?		✓	
Obvious soil discoloration in piping trench?		✓	
Obvious odors from piping trench?		✓	
Water in piping trench?		✓	
Number & depth of soil samples from piping trench?		NA	
Number & depth of water samples from piping trench?		NA	

General Observations	Yes	No	N/A
Leak from any tank suspected?		✓	
"Leak Report" form given to the operator?		✓	
Obviously contaminated soil excavated?			✓
Soil stockpile sampled?	✓		
Stockpile lined AND covered?			✓
Water in excavation sampled?	✓		
Number/depth of water samples taken?	6 FT, 1 L		
All samples properly preserved for transport?	✓		

Additional Observations	Yes	No	N/A
Soil/water sampling protocols acceptable?	✓		
Sampling "chain of custody" noted?	✓		
Tank pit filled in or covered?	✓		
Tank pit fenced or barricaded?		✓	
Transporter a registered HW hauler?	✓		
Uniform HW Manifest completed?	✓		
Contractor/Consultant reminded of complete UST Removal Report due within 30 days?	✓		
Date/Time removal/closure operations completed?		3:35	
OT hours or additional charges due from contractor?		0	

SITE & SAMPLING DIAGRAM

Notes/Comments: PIPING ENTERED TANK EXCAVATION. PIPE DRAINED, CUT BACK TO BE GROUTED INERT.

ATTACHMENT 8

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Dublin	Project: Other	
6747 Sierra Court Suite J	Project Number: 1001 West Red Line Ave., Alameda	**Reported:**
Dublin CA, 94568	Project Manager: Doug Lee	28-Mar-02 07:27

Diesel Hydrocarbons (C10-C23) by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Comp - soil (W203225-01) Soil Sampled: 13-Mar-02 00:00 Received: 13-Mar-02 17:10									
Diesel Range Hydrocarbons (C10-C28)	ND	5.0	mg/kg	1	2C25015	25-Mar-02	25-Mar-02	DHS LUFT	
Surrogate: n-Octacosane		*58 %*	*50-150*		"	"	"	"	

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Dublin	Project: Other	
6747 Sierra Court Suite J	Project Number: 1001 West Red Line Ave., Alameda	**Reported:**
Dublin CA, 94568	Project Manager: Doug Lee	28-Mar-02 07:27

BTEX by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Comp - soil (W203225-01) Soil Sampled: 13-Mar-02 00:00 Received: 13-Mar-02 17:10									
Benzene	ND	0.0050	mg/kg	20	2C18003	18-Mar-02	18-Mar-02	DHS LUFT	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*118 %*		*40-140*		"	"	"	

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Other Project Number: 1001 West Red Line Ave., Alameda Project Manager: Doug Lee	**Reported:** 26-Mar-02 20:10

Diesel Hydrocarbons (C10-C23) by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP-water (W203226-01) Water	**Sampled: 13-Mar-02 00:00**		**Received: 13-Mar-02 17:10**						
Diesel Range Hydrocarbons (C10-C28)	**2400**	83	ug/l	1	2C18004	18-Mar-02	18-Mar-02	EPA 8015M	HC-14
Surrogate: n-Octacosane		*141 %*	*50-150*		"	"	"	"	

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673
www.sequoialabs.com

Gettler Ryan, Inc. - Dublin	Project: Other	
6747 Sierra Court Suite J	Project Number: 1001 West Red Line Ave., Alameda	**Reported:**
Dublin CA, 94568	Project Manager: Doug Lee	26-Mar-02 20:10

BTEX by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP-water (W203226-01) Water Sampled: 13-Mar-02 00:00 Received: 13-Mar-02 17:10									
Benzene	ND	0.50	ug/l	1	2C18001	18-Mar-02	18-Mar-02	DHS LUFT	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*126 %*		*70-130*	"	"	"	"	