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

December 12, 2014

City of Albany Fire Department
c/o: Mr. Gale Rossi
1000 San Pablo Ave.
Albany, CA 94706
(sent via e-mail to:
grossi@albanyca.org)

City of Albany Fire Department
c/o: Ms. Nichole Almaguer
1000 San Pablo Ave.
Albany, CA 94706
(sent via e-mail to:
nalmaguer@albanyca.org)

City of Albany Fire Department
c/o: Fire Chief
1000 San Pablo Ave.
Albany, CA 94706

Subject: Case Closure for Fuel Leak Case No. RO0000297 and GeoTracker Global ID T0600102152, City of Albany Fire Department, 1000 San Pablo Ave., Albany, CA 94706

Dear Responsible Parties:

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 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.: City of Albany Community Development, Planning Division, 1000 San Pablo Avenue, Albany, CA 94706

James E. Gribi, Gribi Associates, 1090 Adams Street, Suite K, Benicia, CA 94510 (sent via e-mail to jgribi@gribiassociates.com)

Mark Detterman, (sent via electronic mail to mark.detterman@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

December 12, 2014

City of Albany Fire Department
c/o: Mr. Gale Rossi
1000 San Pablo Ave.
Albany, CA 94706
(sent via e-mail to:
grossi@albanyca.org)

City of Albany Fire Department
c/o: Ms. Nichole Almaguer
1000 San Pablo Ave.
Albany, CA 94706
(sent via e-mail to:
nalmaguer@albanyca.org)

City of Albany Fire Department
c/o: Fire Chief
1000 San Pablo Ave.
Albany, CA 94706

Subject: Case Closure for Fuel Leak Case No. RO0000297 and GeoTracker Global ID T0600102152, City of Albany Fire Department, 1000 San Pablo Ave., Albany, CA 94706

Dear Responsible Parties:

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,

Arlu Levi
Director

UST Case Closure Summary Form

Agency Information Date: December 12, 2014

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: 510-567-6876
Staff Person: Mark Detterman	Title: Senior Hazardous Materials Specialist

Case Information

Facility Name: City of Albany Fire Department		
Facility Address: 1000 San Pablo Ave (aka 1001 Marin Ave.), Albany, CA 94706		
RB LUSTIS Case No: ----	Local Case No.: ----	LOP Case No.: RO0000297
URF Filing Date: ----	GeoTracker Global ID: T0600102152	
APN: 66-2692-2-2	Current Land Use: Commercial (fire and police station, city hall); however, screened for residential exposure due to fire station residence.	
Responsible Party(s):	Address:	Phone:
City of Albany Fire Department	1000 San Pablo Ave, Albany, CA 94706	510.524.8170

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
1	10,000	Gasoline	Removed	April 1998

Conceptual Site Model (Attachment 1, 1 page)

Closure Criteria Met (Attachment 2, 1 page)

LTCP Groundwater Specific Criteria (Attachment 3, 2 pages)

LTCP Vapor Specific Criteria (Attachment 4, 2 pages)

LTCP Direct Contact and Outdoor Air Exposure Criteria (Attachment 5, 1 page)

Site Maps (Attachment 6, 4 pages)

Analytical Data (Attachment 7, 4 pages)

Soil Bore Logs (Attachment 8, 4 pages)

UST Case Closure Summary Form

Additional Information:

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.

RWQCB Notification

Notification Date: August 12, 2014

RWQCB Staff Name: Cherie McCaulou	Title: Engineering Geologist

Local Agency Representative

Prepared by: Mark Detterman	Title: Senior Hazardous Materials Specialist
Signature: Mark E. Detterman	Date: Dec. 12, 2014
Approved by: Dilan Roe	Title: LOP and SCP Program Manager
Signature: Dilan Roe	Date: 12/12/2014

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 3

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.	**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	>1,000 feet	**>250 feet**	**>1,000 feet**	**>1,000 feet**	**>1,000 feet**
Distance to Nearest Surface Water and Direction	>250 feet	**>250 feet**	>1,000 feet	>1,000 feet	>1,000 feet
Property Owner Willing to Accept a Land Use Restriction?	Not Applicable	**Not applicable**	**Not applicable**	Yes	**Not applicable**

GROUNDWATER CONCENTRATIONS

Constituent	Historic Site Maximum (µg/L)	Current Site Maximum (µg/L)	**LTCP Scenario 1 Criteria**	LTCP Scenario 2 Criteria (µg/L)	LTCP Scenario 3 Criteria	LTCP Scenario 4 Criteria (µg/L)
Benzene	70	<0.50	**No criteria**	3,000	No criteria	1,000
MTBE	380	<1.0	**No criteria**	1,000	No criteria	1,000

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?	N/A

Attachment 3 Comments:

San Francisco Bay is approximately 3,100 feet downgradient to the west. Marin Creek is crossgradient to the south at an approximate distance of 700 feet. Codornices Creek is crossgradient to the south, and downgradient to the west. At closest, it is approximately 1,700 feet from the site.

Using the water well survey results from the GeoTracker Groundwater Ambient Monitoring Assessment (GAMA) tool indicates no public water supply wells, no Calif. Dept. of Public Health (CDPH), no Dept. Pesticide Regulation (DPR), and no Dept. of Water Resources (DWR) water wells within a 2,000 foot radius.

Using the Alameda County Public Works Agency (ACPWA) resources for water wells indicates no water supply wells within a 2,000 foot radius.

Grab groundwater sample "Water-1" from the 1998 UST pit excavation contained 4,000 ug/L Total Petroleum Hydrocarbons as gasoline (TPH-g), 70 µg/l benzene, and 380 µg/l MTBE, among other petroleum hydrocarbon compounds. These concentrations exceeded the San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for drinking water, while TPH-g, benzene, ethylbenzene, and xylenes, exceeded the RWQCB ESL for aquatic habit. The most recent groundwater sample concentrations from IB-3-GW and IB-4-GW indicate that TPH-g, benzene, ethylbenzene, xylenes, and MTBE concentrations are below laboratory reporting limits (RLs), and are thus protective of the downgradient aquatic receptors and drinking water. A TPH as motor oil (TPH-mo) concentration (grab sample IB-3-GW from 2013) exceeded the RWQCB drinking water ESL criteria; however, TPH-mo has not been identified as a contaminant of concern at the site. While TPH-mo concentrations exceeded the RWQCB drinking water ESL, there are no identified water supply wells within a 2,000 foot radius of the site. Additionally, the downgradient surface water receptors are likely not at risk due to natural attenuation reducing concentrations over the 700 foot distance to Marin Creek.

ATTACHMENT 4

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 LNAPL	No LNAPL	LNAPL in groundwater	LNAPL in soil	**No LNAPL**	**No LNAPL**	**No LNAPL**	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	>5 feet	≥30 feet	≥30 feet	**≥5 feet**	≥10 feet	**≥5 feet**	**≥5 feet**
Total TPH in Soil in Bioattenuation Zone	<100 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	< 100 µg/L	No criteria	No criteria	**<100 µg/L**	≥100 and <1,000 µg/L	<1,000 µg/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	N/A	**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?	N/A
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?	N/A

Attachment 4 Comments:

Maximum groundwater concentration for benzene was 70 ug/L in "Water-1" collected in 1998 from the UST excavation. The most recent groundwater concentrations are non-detect at standard laboratory reporting limits (<0.50 ug/L).

The maximum soil concentration of TPH-g at the site was 3 mg/kg in sample D-3@22", collected under the former dispenser in 1998. Another soil sample (sample IB-2.1) was collected in 1999 and contained a concentration of 1.8 mg/kg TPH-g. However, this sample was potentially collected below groundwater. Other than sample D-3@22", no other soil samples were collected in the 0 to 5 foot depth interval. Each soil sample contained less than 0.005 mg/kg benzene and a maximum of 0.0099 mg/kg ethylbenzene. The lateral and vertical extents of TPH in soil appear to be delineated by soil bores IB-1, IB-3,

and IB-4 as TPH concentrations in soil are below laboratory reporting limits.

Based on 1998, 1999, and 2013 soil and groundwater maximum concentrations, the secondary source, as defined by the LTCP, appears to have been removed. These soil and groundwater concentrations do not contain sufficient volatiles to create a vapor intrusion risk and the 1998 and 2013 groundwater analytical data do not exceed the RWQCB vapor intrusion ESLs for residential receptors. While the land use is classified as commercial, the site was screened to residential criteria as firefighters are likely to reside in the fire station 24 hours per day.

ATTACHMENT 5
LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA

LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed: Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1

Are maximum concentrations less than those in Table 1 below?		Yes				
Constituent		Residential		Commercial/Industrial		Utility Worker
		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	**<0.005**	**<0.005**	<0.005	<0.005	<0.005
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	**<0.0099**	**<0.0099**	<0.0099	<0.0099	<0.0099
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene	----	----	----	----	----
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs	----	----	----	----	----
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?	N/A
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?	N/A

Comments:

Naphthalene was not analyzed in soil or groundwater. The California Leaking Underground Fuel Tank Manual (2012), states that the average composition of fresh gasoline contains 0.25% naphthalene, and the maximum is 0.36%. The average concentration of naphthalene in fresh diesel product is 0.26%, and the maximum is 0.8%.

There is limited shallow analytical data at the site; however, based on available data the secondary source was removed as the data does not indicate significant residual contamination. Analysis for TPH-d in groundwater beneath the site yielded non-detectable concentrations. Therefore, using the maximum concentration of gasoline in soil (3.0 mg/kg) as a surrogate, the theoretical maximum soil concentration for naphthalene would be 0.011 mg/kg. This below Table 1 criteria.

ATTACHMENT 1

LTCP Checklist Go

GEOTRACKER HOME | MANAGE PROJECTS | REPORTS | SEARCH | LOGOUT

CITY OF ALBANY FIRE DEPARTMENT (T0600102152) - MAP THIS SITE — OPEN - ELIGIBLE FOR CLOSURE

1000 SAN PABLO AVENUE
ALBANY , CA 94706
ALAMEDA COUNTY

VIEW PRINTABLE CASE SUMMARY FOR THIS SITE

ACTIVITIES REPORT
PUBLIC WEBPAGE

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP (LEAD) - CASE #: RO0000297
CASEWORKER: MARK DETTERMAN - SUPERVISOR: DILAN ROE
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-2342
CASEWORKER: Cherie McCaulou - SUPERVISOR: Cheryl L. Prowell
CR Site ID #: NOT SPECIFIED

THIS PROJECT WAS LAST MODIFIED BY MARK DETTERMAN ON 12/12/2014 9:48:11 AM - HISTORY

THIS SITE HAS SUBMITTALS. CLICK HERE TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.

CLOSURE POLICY

THIS VERSION IS FINAL AS OF 12/12/2014 — CHECKLIST INITIATED ON 3/15/2013 — 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?
Name of Water System : EBMUD — YES NO

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

Does the site meet any of the Groundwater specific criteria scenarios? — YES NO

1.1 - The contaminant plume that exceeds water quality objectives is <100 feet in length. There is no free product. The nearest existing water supply well or surface water body is >250 feet from the defined plume boundary. — 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 MARKDETT

CONTACT GEOTRACKER HELP

ATTACHMENT 2

CITY OF ALBANY FIRE DEPARTMENT (T0600102152) - MAP THIS SITE

OPEN - ELIGIBLE FOR CLOSURE

1000 SAN PABLO AVENUE
ALBANY , CA 94706
ALAMEDA COUNTY

VIEW PRINTABLE CASE SUMMARY FOR THIS SITE

ACTIVITIES REPORT

PUBLIC WEBPAGE

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP *(LEAD)* - *CASE #: RO0000297*
CASEWORKER: *MARK DETTERMAN* - ***SUPERVISOR:*** *DILAN ROE*
SAN FRANCISCO BAY RWQCB (REGION 2) - *CASE #: 01-2342*
CASEWORKER: *Cherie McCaulou* - ***SUPERVISOR:*** *Cheryl L. Prowell*

CR Site ID #: NOT SPECIFIED

THIS PROJECT WAS LAST MODIFIED BY ***MARK DETTERMAN*** ON 11/18/2014 11:35:33 AM - HISTORY

THIS SITE HAS SUBMITTALS. CLICK HERE TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.

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
CITY OF ALBANY FIRE DEPARTMENT (Global ID: T0600102152) 1000 SAN PABLO AVENUE ALBANY, CA 94706	Open - Eligible for Closure	8/12/2014	4/29/1998	17	ALAMEDA COUNTY LOP *(LEAD)* - *CASE #: RO0000297* ***CASEWORKER:*** *MARK DETTERMAN* - ***SUPERVISOR:*** *DILAN ROE* SAN FRANCISCO BAY RWQCB (REGION 2) - *CASE #: 01-2342* ***CASEWORKER:*** *Cherie McCaulou* - ***SUPERVISOR:*** *Cheryl L Prowell*

STAFF NOTES (INTERNAL)
Not all historic documents for the fuel leak case may be available on GeoTracker. A complete case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org /dehpublic/dehpublic.jsp.

SITE HISTORY
Not all historic documents for the fuel leak case may be available on GeoTracker. A complete case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org /dehpublic/dehpublic.jsp.

Two USTs were removed in April 1998 (1,000-gallon diesel, and 10,000-gallon gasoline). UST removal confirmation samples contained trace concentrations of TPHd, TPHg, and BTEX/M compounds; however, groundwater contained concentrations of gasoline and BTEX/M compounds at levels of concern. Two hand augured soil bores were installed in the presumed downgradient direction from the gasoline UST in January 1999. Trace concentrations were encountered in soil; however, MTBE was detected in one grab groundwater sample. In March 1999 an additional bore was proposed to be installed further downgradient (presumed) to investigate the extent of MTBE contamination; the work was also approved in March 1999. This work is not been documented to have occurred. In October 2013 two additional soil bores were installed to define the extent of gasoline groundwater contamination at the site.

Not all historic documents for the fuel leak case may be available on GeoTracker. A complete case file for this site is located on the Alameda County Environmental Health website at: http://ehgis.acgov.org /dehpublic/dehpublic.jsp.

RESPONSIBLE PARTIES

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
RAY BARKER	CITY OF ALBANY FIRE DEPARTMENT	1000 SAN PABLO AVE	ALBANY	

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
Gasoline	Public Use	GW - Municipal and Domestic Supply	Other	4/29/1998	Close and Remove Tank	0

FREE PRODUCT	OTHER CONSTITUENTS	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE	MOST RECENT CLOSURE REQUEST
NO	NO	EBMUD	10/20/2014	1/6/2014	11/12/2013		

CDPH WELLS WITHIN 1500 FEET OF THIS SITE
NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

APN	GW BASIN NAME	WATERSHED NAME
No APN Found	Santa Clara Valley - East Bay Plain (2-9.04)	Bay Bridges - Berkeley (20330)

COUNTY	PUBLIC WATER SYSTEM(S)
Alameda	• EAST BAY MUD - 375 ELEVENTH STREET, OAKLAND, CA 94607

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

FIELD PT NAME	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
IB-3-GW	10/24/2013	OTHER	ND	ND	ND	OTHER	ND	ND
IB-4-GW	10/24/2013	OTHER	ND	ND	ND	OTHER	ND	ND

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

FIELD PT NAME	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
IB-3-11.5	10/23/2013		ND	ND	ND		ND	ND
IB-3-7.5	10/23/2013		ND	ND	ND		ND	ND
IB-4-11.5	10/23/2013		ND	ND	ND		ND	ND
IB-4-7.5	10/23/2013		ND	ND	ND		ND	ND

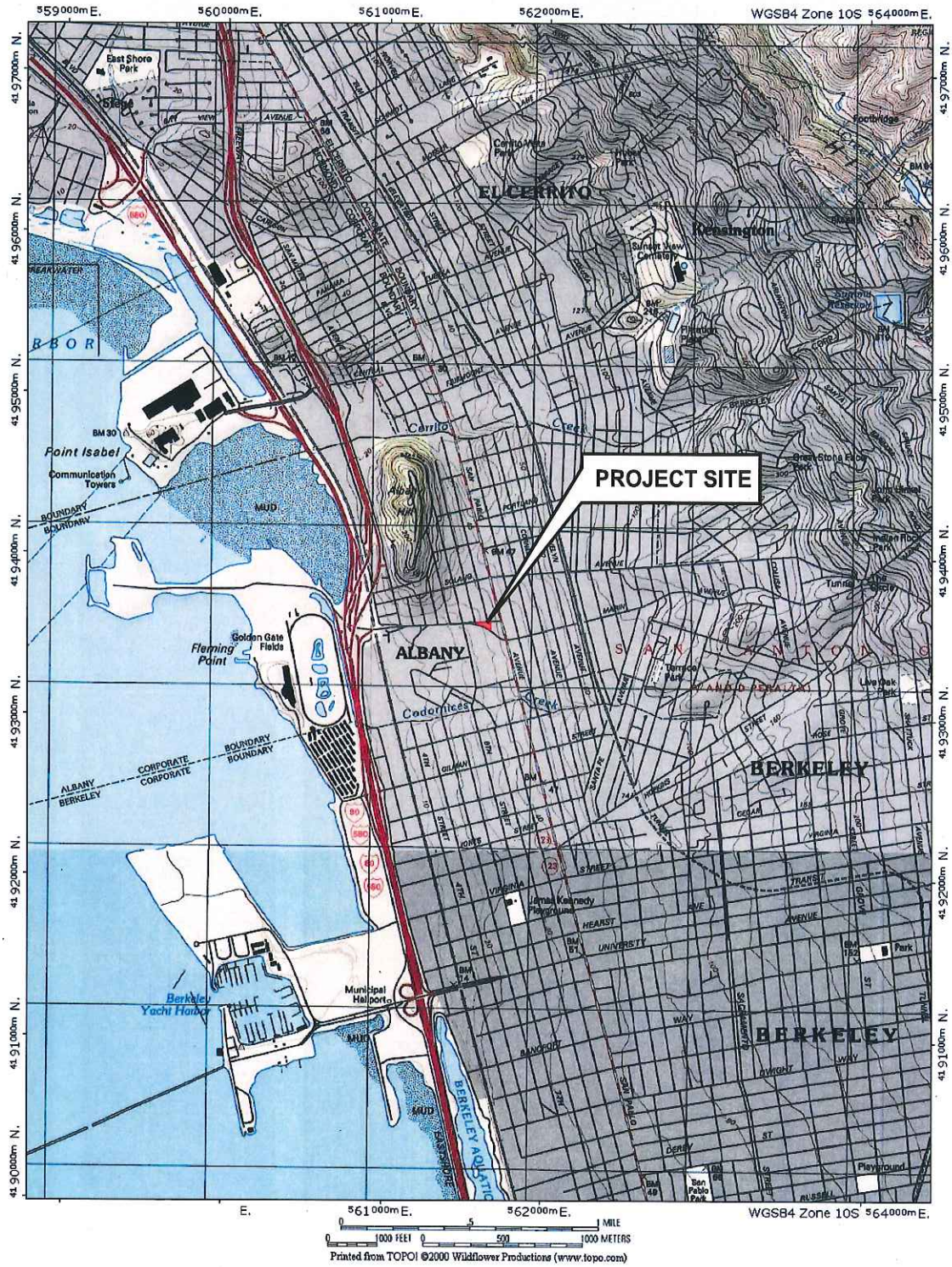
MOST RECENT GEO_WELL DATA - HIDE VIEW ESI SUBMITTALS

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

LOGGED IN AS MARKDETT

CONTACT GEOTRACKER HELP

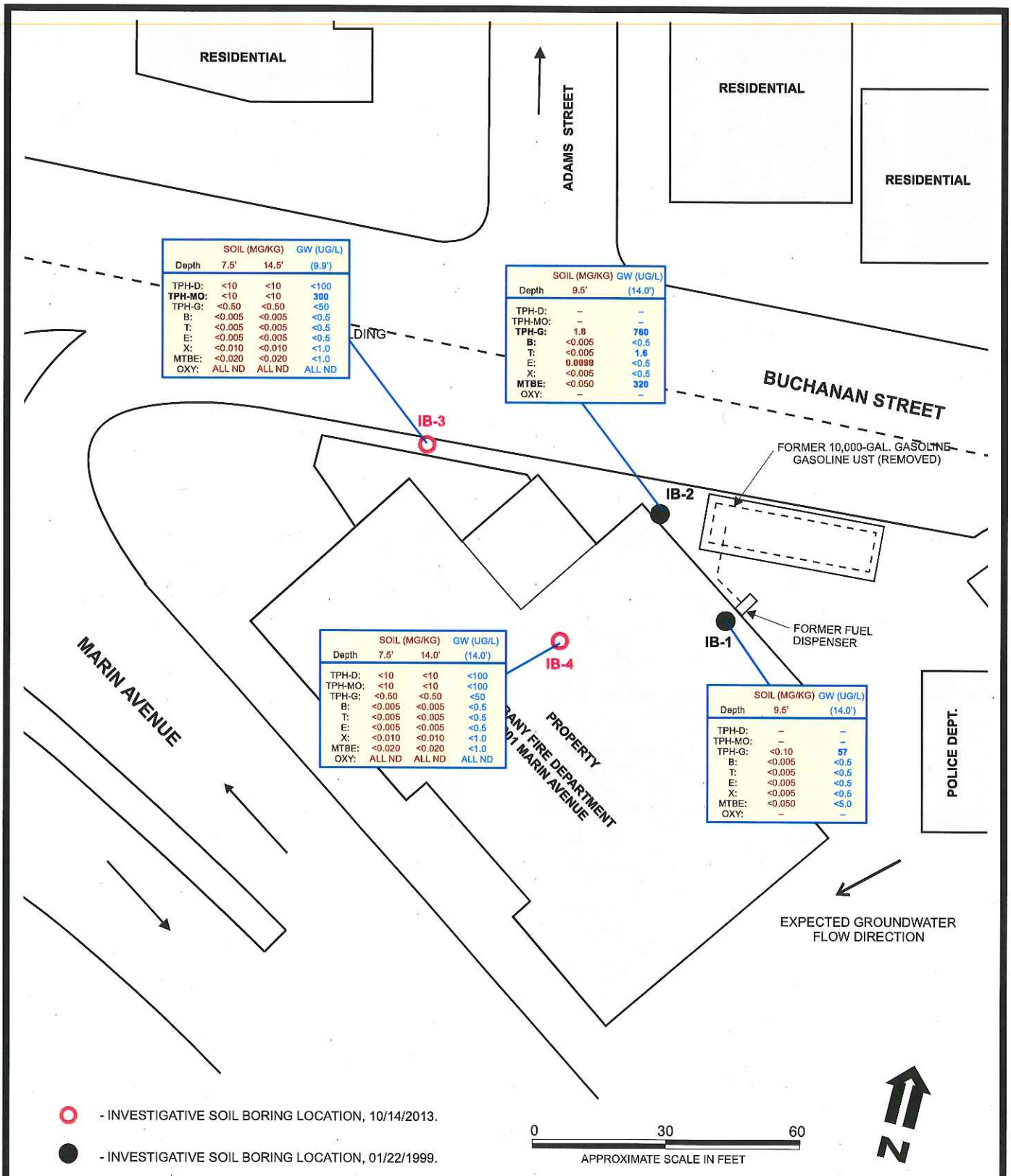
ATTACHMENT 6



DESIGNED BY:	CHECKED BY: JG	**SITE VICINITY MAP**	DATE: 01/06/2014	FIGURE: 1
DRAWN BY: RB	SCALE:			
PROJECT NO:		1001 MARIN AVENUE ALBANY, CALIFORNIA		

Google earth

feet 600
meters 200



	SOIL (MG/KG)		GW (UG/L)
Depth	7.5'	14.5'	(9.9')
TPH-D:	<10	<10	<100
TPH-MO:	<10	<10	**300**
TPH-G:	<0.50	<0.50	<50
B:	<0.005	<0.005	<0.5
T:	<0.005	<0.005	<0.5
E:	<0.005	<0.005	<0.5
X:	<0.010	<0.010	<1.0
MTBE:	<0.020	<0.020	<1.0
OXY:	ALL ND	ALL ND	ALL ND

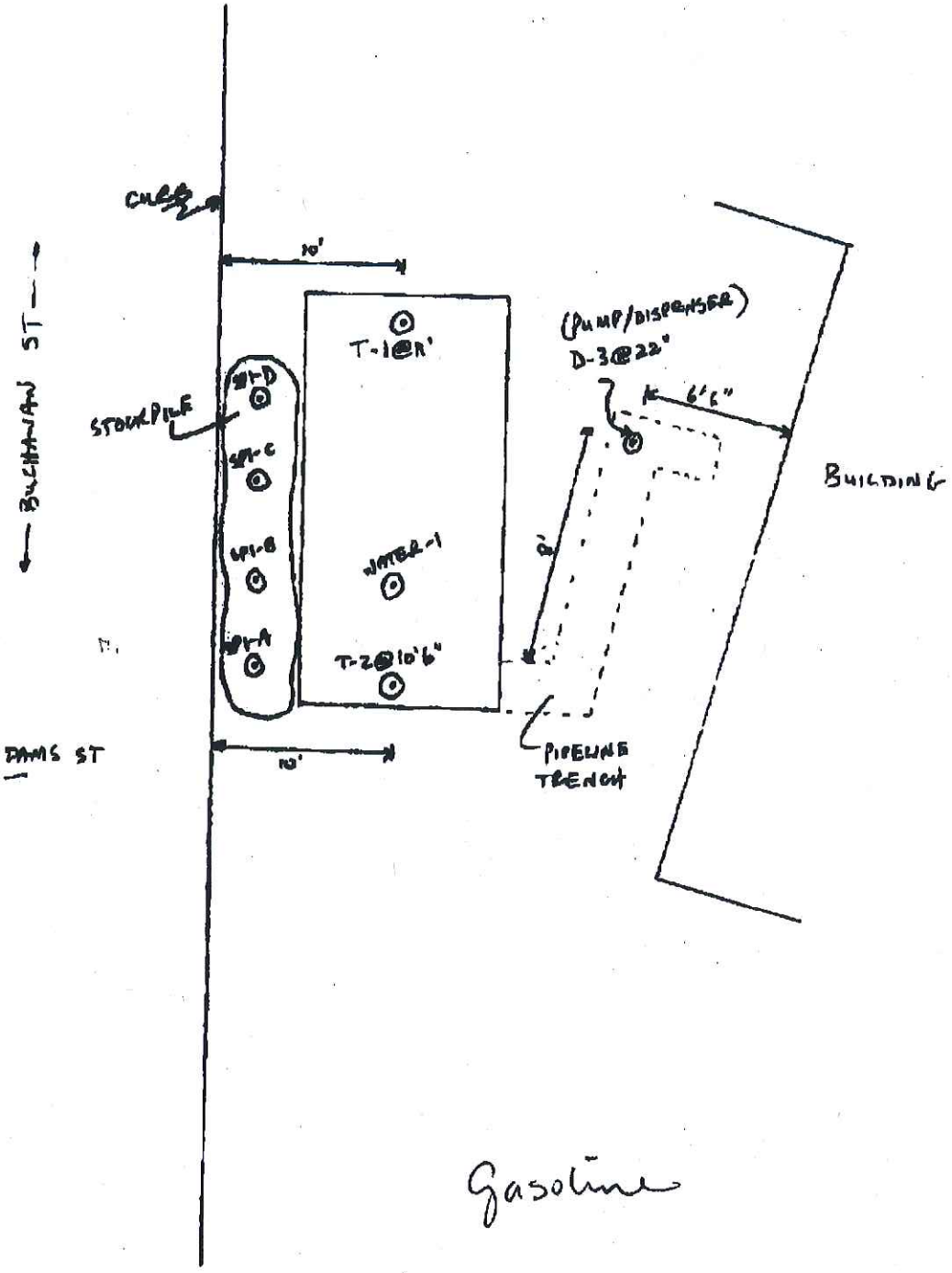
	SOIL (MG/KG)	GW (UG/L)
Depth	9.5'	(14.0')
TPH-D:	–	–
TPH-MO:	–	–
TPH-G:	**1.8**	**760**
B:	<0.005	<0.5
T:	<0.005	**1.6**
E:	**0.0099**	<0.5
X:	<0.005	<0.5
MTBE:	<0.050	**320**
OXY:	–	–

	SOIL (MG/KG)		GW (UG/L)
Depth	7.5'	14.0'	(14.0')
TPH-D:	<10	<10	<100
TPH-MO:	<10	<10	<100
TPH-G:	<0.50	<0.50	<50
B:	<0.005	<0.005	<0.5
T:	<0.005	<0.005	<0.5
E:	<0.005	<0.005	<0.5
X:	<0.010	<0.010	<1.0
MTBE:	<0.020	<0.020	<1.0
OXY:	ALL ND	ALL ND	ALL ND

	SOIL (MG/KG)	GW (UG/L)
Depth	9.5'	(14.0')
TPH-D:	–	–
TPH-MO:	–	–
TPH-G:	<0.10	**57**
B:	<0.005	<0.5
T:	<0.005	<0.5
E:	<0.005	<0.5
X:	<0.005	<0.5
MTBE:	<0.050	<5.0
OXY:	–	–

DESIGNED BY:	CHECKED BY: JG	**SITE PLAN**	DATE: 01/06/2014 / FIGURE: **2**
DRAWN BY: RB	SCALE:		
PROJECT NO:		1001 MARIN AVENUE ALBANY, CALIFORNIA	GRIBI

4/22/98 - Albany Fire Dept
SEMCO
- Sampler - John Stetz



Gasoline

ATTACHMENT 7

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-452
Client: Semco
Project: Albany Fire Dept.

Date Reported: 04/28/98

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-452-04 Client ID: T[illegible]10'6"				04/22/98	SOIL
Gasoline	8015M	ND			04/23/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	0.27	mg/Kg		
Toluene	8020	ND			
Xylenes	8020	ND			
Sample: 98-452-05 Client ID: B-3[illegible] 28"				04/22/98	SOIL
Gasoline	8015M	3	mg/Kg		04/23/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	0.15	mg/Kg		
Toluene	8020	0.014	mg/Kg		
Xylenes	8020	0.54	mg/Kg		

*Confirmed by GC/MS method 8260.

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Amdd 4/29/98 for UCR

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

CERTIFICATE OF ANALYSIS

3839

Lab Number: 98-452
Client: Semco
Project: Albany Fire Dept.

Date Reported: 04/28/98

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-452-01 Client ID: WATER -1				04/22/98	WATER
Gasoline	8015M	4000	ug/L		04/23/98
Benzene	8020	70	ug/L		
Ethylbenzene	8020	90	ug/L		
MTBE	8020	*380	ug/L		
Toluene	8020	330	ug/L		
Xylenes	8020	260	ug/L		
Sample: 98-452-02 Client ID: SP1-A,B,C,D				04/22/98	SOIL COMP.
Gasoline	8015M	ND			04/23/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	0.04	mg/Kg		
Sample: 98-452-03 Client ID: T-1@ 11' East End				04/22/98	SOIL
Gasoline	8015M	ND			04/23/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			

*Confirmed by GC/MS method 8260.

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Results of Laboratory Analyses

Soil and water analytical results are summarized in Table 1. Laboratory data reports for soil and water samples are contained in Appendix C.

Table 1
SUMMARY OF SOIL AND GROUNDWATER ANALYTICAL RESULTS
Albany Fire Station UST Site

Sample ID	Sample Type	Sample Depth	Constituent (parts per million) TPH-G	B	T	E	X	MTBE
IB-1 (Southwest) Samples								
IB-1.1	Soil	9.5 ft	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
IB-1W	Water	--	**0.057**	<0.00050	<0.00050	<0.00050	<0.00050	<0.0050
IB-2 (West) Samples								
IB-2.1	Soil	9.5 ft	**1.8**	<0.0050	<0.0050	**0.0099**	<0.0050	<0.050
IB-2W	Water	--	**0.760**	<0.00050	**0.0016**	<0.00050	<0.00050	**0.320**

TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene, T = Toluene, E = Ethylbenzene, X = Xylenes
MTBE = Methyl-t-butyl Ether
<0.10 = Not detected above the expressed value.

CONCLUSIONS

Field screening and laboratory analytical results from the two soil borings indicate minimal hydrocarbon impacts in subsurface soils in both investigative borings. However, the groundwater sample from IB-2, located about ten feet west from the former gasoline UST excavation cavity, contained a level of MTBE which is above both formal and informal regulatory action levels for MTBE. Thus, based on preliminary conversations with Ms. Eva Chu of Alameda County Department of Environmental Health, additional downgradient investigation will be required before regulatory site closure can be achieved. Ms. Chu indicated that an additional soil boring drilled 20 to 30 feet further west from IB-2 might be adequate to determine whether or not a widespread MTBE problem exists at the site.

WORKPLAN TO CONDUCT ADDITIONAL SITE CHARACTERIZATION

Based on the above project approach, Gribi Associates proposes to conduct the following tasks. All activities will be conducted in accordance with applicable State and Federal guidelines and statutes.

Task 1 Conduct prefield activities. Gribi Associates will: (1) Obtain a drilling permit from Alameda County Department of Public Works; (2) Mark the proposed boring locations

Table 1
SUMMARY OF SOIL AND GRAB GROUNDWATER ANALYTICAL RESULTS
City of Albany Fire Department UST Site

Sample ID	Sample Matrix	Sample Depth	Soil1 concentrations in milligrams per kilogram (mg/kg) *Groundwater concentrations in micrograms per liter (ug/l)*								
			TPH-D	TPH-M	TPH-G	B	T	E	X	MTBE	Other OXY
IB-3-7.5	Soil	7.5 ft	<10	<10	<0.50	<0.005	<0.005	<0.005	<0.010	<0.020	ALL ND
IB-3-11.5	Soil	14.5 ft	<10	<10	<0.50	<0.005	<0.005	<0.005	<0.010	<0.020	ALL ND
IB-3-GW	*Water*	*(9.9 ft)*	*<50*	***300***	*<050*	*<0.50*	*<0.50*	*<0.50*	*<1.0*	*<1.0*	*ALL ND*
IB-4-7.5	Soil	7.5 ft	<10	<10	<0.50	<0.005	<0.005	<0.005	<0.010	<0.020	ALL ND
IB-4-11.5	Soil	14.0 ft	<10	<10	<0.50	<0.005	<0.005	<0.005	<0.010	<0.020	ALL ND
IB-4-GW	*Water*	*(14.0 ft)*	*<50*	*<100*	*<050*	*<0.50*	*<0.50*	*<0.50*	*<1.0*	*<1.0*	*ALL ND*
Shallow Soil ESL			**100**	**500**	**100**	**0.74**	**9.3**	**4.7**	**11**	**8.4**	**Various**
Groundwater ESL			***640***	***640***	***500***	***46***	***130***	***43***	***100***	***1,800***	***Various***

Table Notes:

TPH-D =Total petroleum hydrocarbons as diesel
TPH-M = Total petroleum hydrocarbons as motor oil
TPH-G = Total petroleum hydrocarbons as gasoline
MTBE = Methyl Tertiary Butyl Ether
Other OXY = Other oxygenates, including Ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME), and Lead Scavengers, including 1,2-Dibromoethane and 1,1-Dichloroethane

<10 = Not detected above the expressed detection level.
ND = Not detected above laboratory detection limits
All ND = No detectable concentrations of full list of constituents ESL = Environmental Screening Levels, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, San Francisco Bay Regional Water Quality Control Board, Interim Final, May 2013; Table B (nondrinking water, residential land use).

ATTACHMENT 8

LOG OF BORING

SHEET _1_ OF _1_

BORING NUMBER : IB-1

GRIBI Associates

BORING LOCATION:
SOUTH OF FORMER GASOLINE UST

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME:
ALBANY FIRE STATION UST SITE

PROJECT NUMBER: 148-01-01

START DATE: 01/22/99

COMPLETION DATE: 01/22/99

DRILLING CONTRACTOR :

DRILLING METHOD: HAND AUGER

BOREHOLE DIAMETER: 3-1/4 INCHES

BORING TOTAL DEPTH: 10.0 FEET

COMPLETION METHOD: GROUTED

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL	PIEZOMETER/ WELL INSTALLATION
							0.0 - 1.0 Ft. Concrete and base rock.	
						CL	1.0 - 3.0 Ft. Dark grey to black silty CLAY, soft, moist, swampy odor, no hydrocarbon odors or staining.	
						GP	3.0 - 3.5 Ft. Grey brown GRAVEL, clayey, angular clasts, moist to wet, no hydrocarbon odors or staining.	
5						CL	3.5 - 5.0 Ft. Olive grey to reddish brown CLAY, firm, stiff, no hydrocarbon odors or staining.	
						ML	5.0 - 8.5 Ft. Light grey to reddish brown SILT, slightly clayey, dry to moist, firm to friable, no hydrocarbon odors or staining.	
						GP	8.5 - 10.0 Ft. Reddish brown sandy GRAVEL, loose, angular to subrounded clasts, slightly clayey, wet, no hydrocarbon odors or staining.	
10	IB-1.1	9.5 FT						
							TOTAL DEPTH: 10 FEET GROUNDWATER DEPTH: APPROX. 8 FEET	
15							GRAB GROUNDWATER SAMPLE COLLECTED DIRECTLY FROM BORING USING DISPOSABLE PVC BAILER.	
20								

LOG OF BORING

SHEET _1_ OF _1_

BORING NUMBER : IB-2

GRIBI Associates

BORING LOCATION:
WEST OF FORMER GASOLINE UST

BORING TYPE: INVESTIGATIVE BORING

PROJECT NAME:
ALBANY FIRE STATION UST SITE

PROJECT NUMBER: 148-01-01

START DATE: 01/22/99

COMPLETION DATE: 01/22/99

DRILLING CONTRACTOR :

DRILLING METHOD: HAND AUGER

BOREHOLE DIAMETER: 3-1/4 INCHES

BORING TOTAL DEPTH: 10.0 FEET

COMPLETION METHOD: GROUTED

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	RECOVERY	BLOWS PER 6 IN.	USCS	LOG OF MATERIAL	PIEZOMETER/ WELL INSTALLATION
							0.0 - 1.0 Ft. Concrete and base rock.	
						CL	1.0 - 3.0 Ft. Dark grey to black silty CLAY, firm, moist, swampy odor, no hydrocarbon odors or staining.	
						ML	3.0 - 4.0 Ft. Olive brown SILT, sandy, slightly clayey, moist, no hydrocarbon odors or staining.	
5						CL	4.0 - 6.0 Ft. Olive grey brown CLAY, firm, stiff, gravelly from 5 to 6 feet, moist, no hydrocarbon odors or staining.	
						SM	6.0 - 8.5 Ft. Grey green to brown SAND, clayey, gravelly, loose to firm, medium to coarse grained, moist, no hydrocarbon odors or staining.	
						ML	8.5 - 10.5 Ft. Grey Green SILT, slightly gravelly, slightly clayey, moist to wet, slight hydrocarbon odor, no hydrocarbon staining.	
10	IB-1.1	9.5 FT	■					
							TOTAL DEPTH: 10.5 FEET GROUNDWATER DEPTH: APPROX. 8.5 FEET	
15							GRAB GROUNDWATER SAMPLE COLLECTED AS FOLLOWS: 1-1/4-INCH PVC SLOTTED CASING WAS PLACED FROM 10.5 FT TO 6.5 FT, FOLLOWED BY BLANK CASING TO SURFACE. APPROX. 4 GALLONS OF GROUNDWATER WAS PURGED WITH A CLEAN PVC BAILER PRIOR TO SAMPLING.	
20								

LOG OF BORING

BORING NUMBER : **IB-3**
BORING LOCATION: NW FROM FORMER UST
PROJECT NAME: CITY OF ALBANY FIRE DEPARTMENT
BORING TYPE: SOIL BORING
LOGGED BY: MATTHEW ROSMAN
START DATE: 10/24/2013 COMPLETION DATE: 10/24/2013

GRIBI ASSOCIATES

DRILLING CONTRACTOR: GREGG DRILLING
DRILLING METHOD: DIRECT PUSH
BOREHOLE DIAMETER: 2.5 INCHES
COMPLETION METHOD: NA
BORING TOTAL DEPTH: 24.0 FEET
GROUNDWATER DEPTH: INITIAL: NONE
FINAL: 9.9 FEET

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL	WELL INSTALLATION & CONSTRUCTION
5	IB-3-7.5 11:30	7.5 FT.		0	CL	0.0 - 5.0 ft. Fill (Hand Augered) 5.0 - 12.0 ft. **Sandy Clay (CL)** Brown, moist, occasional fine to coarse grain sand, stiff, no hydrocarbon odors or staining.	
10	IB-3-11.5 11:40	11.5 FT.		0 ▼	CL	12.0 - 18.0 ft. **Sandy Clay (CL)** Red-brown, occasional fine to coarse grain sand, silt/clay, moist, no hydrocarbon odors or staining.	
15	IB-3-15.5 11:50	15.5 FT.		0	CL	18.0 - 24.0 ft. **Silty Clay (CL)** Mottled grey-brown, moist, slightly sandy, very fine grained thin sandy zone, no hydrocarbon odors or staining.	
20							
25						TOTAL DEPTH: 24 FEET BGS. GROUNDWATER SAMPLE IB-3-GW WAS COLLECTED AT 12:15	

LOG OF BORING

BORING NUMBER : **IB-4**
BORING LOCATION: SW FROM FORMER UST
PROJECT NAME: CITY OF ALBANY FIRE DEPARTMENT
BORING TYPE: SOIL BORING
LOGGED BY: MATTHEW ROSMAN
START DATE: 10/24/2013 COMPLETION DATE: 10/24/2013

GRIBI ASSOCIATES

DRILLING CONTRACTOR: GREGG DRILLING
DRILLING METHOD: DIRECT PUSH
BOREHOLE DIAMETER: 2.5 INCHES
COMPLETION METHOD: NA
BORING TOTAL DEPTH: 24.0 FEET
GROUNDWATER DEPTH: INITIAL: NONE
FINAL: 14.0 FEET

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & WATER LEVEL (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL	WELL INSTALLATION & CONSTRUCTION
5						0.0 - 5.0 ft. FILL (Hand Augered)	
					SC	5.0 - 8.0 ft. **Clayey Sand (SC)** Orange-brown, moist, fine to coarse, slight to moderate clayey (increasing w/depth), no odor or staining.	
	IB-4-8.0 9:20	8.0 FT.		0			
10					SC	8.0 - 14.5 ft. **Clayey Sand (SC)** Orange-brown, moist, stiff, fine to coarse grain, no odors or staining.	
	IB-4-11.5 9:30	11.5 FT.		0			
				▼			
15					CL	14.5 - 16.0 ft. **Silty Clay (CL)** Mottled orange-brown grey, moist, stiff, slightly sandy, very fine grain, no odors or staining.	
	IB-4-15.5 9:40	15.5 FT.		0			
20					CL	16.0 - 24.0 ft. **Sandy Clay (CL)** Orange-brown, moist, fine to coarse grain, no odors or staining.	
25						TOTAL DEPTH: 24 FEET BGS. GROUNDWATER SAMPLE IB-4-GW WAS COLLECTED AT 10:45	