ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

REBECCA GEBHART, Acting 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

March 29, 2016

Griffin Capital Investors LLC

c/o Julie Treinen

6601-6603 Shellmound Street Emeryville, CA 94608

(sent via electronic mail to:

itreinen@griffincapital.com)

Thomas Richardson PO Box 7817

Berkeley, CA 94707

SAP (Sybase Inc.)

c/o Dwain Christensen 3410 Hillview Avenue

Palo Alto, CA 94304 (sent via electronic mail to:

dwain.christensen@sap.com)

Wintzen Inc. c/o Jacon Warren

6601 Shellmound Street

Emeryville, CA 94608

Griffin Capital (The Atrium) Investor 20

2321 Rosecrans, Suite 3290

El Segundo, CA 90245

Subject: Case Closure for Fuel Leak Case No. RO0000043 and Geotracker Global ID T0600100470, Richardson

/ Sybase, 6603 Bay (Shellmound) Street, Emeryville, CA 94608

Dear Ladies and Gentlemen:

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,

Ronald Browder Acting Director

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

March 29, 2016

Griffin Capital Investors LLC c/o Julie Treinen 6601-6603 Shellmound Street Emeryville, CA 94608 (sent via electronic mail to: itreinen@griffincapital.com)

SAP (Sybase Inc.) c/o Dwain Christensen 3410 Hillview Avenue Palo Alto, CA 94304 (sent via electronic mail to: dwain.christensen@sap.com)

Thomas Richardson PO Box 7817 Berkeley, CA 94707 Wintzen Inc. c/o Jacon Warren 6601 Shellmound Street Emeryville, CA 94608 Griffin Capital (The Atrium) Investor 20 2321 Rosecrans, Suite 3290 El Segundo, CA 90245

Subject:

Case Closure for Fuel Leak Case No. RO0000043 and Geotracker Global ID T0600100470,

Richardson / Sybase, 6603 Bay (Shellmound) Street, Emeryville, CA 94608

Dear Ladies and Gentlemen:

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 Department of Environmental Health (ACDEH) 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 Department of Environmental Health website (http://www.acgov.org/aceh/index.htm).

Due to residual contamination, the site was closed with Site Management Requirements that limit future land use to the current commercial land use. Site Management Requirements are further described in the Site Management Requirements section of 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
- Case Closure Summary

Responsible Parties RO0000043 March 29, 2016, Page 2

Cc w/enc.:

City of Emeryville, Public Works Department, 1333 Park Avenue, Emeryville CA 94608 (sent via electronic mail to: mroberts@emeryville.org)

Rob Hansen, Sybase, One Sybase Drive, Dublin, CA 94568 (sent via electronic mail to robert.hansen@sybase.com

Brad McInroy, Sybase, One Sybase Drive, Dublin, CA 94568 (sent via electronic mail to brad@sybase.com)

Paul Mahoney, Sybase, One Sybase Drive, Dublin, CA 94568 (sent via electronic mail to Paul.Mahoney@sybase.com

Todd Maiden, Esq., Reed Smith LLP, 101 Second Street, Suite 1800, San Francisco, CA 94105 (sent via electronic mail to tmaiden@reedsmith.com)

Michelle King, Erler & Kalinowski, Inc, 1870 Ogden Drive, Burlingame, CA 94010 (sent via electronic mail to mkking@ekiconsult.com)

Jeff Shaw, Erler & Kalinowski, Inc, 1870 Ogden Drive, Burlingame, CA 94010 (sent via electronic mail to jshaw@ekiconsult.com)

Ms. Denise Pingston, TMG Partners, 100 Bush St. #2600, San Francisco, CA 94104 (sent via electronic mail to dpingston@tmgpartners.com)

Chris Baldassari, PES Environmental, Inc, 1682 Novato Blvd, Suite 100, Novato, CA 94947 (sent via electronic mail to chaldassari@pesenv.com)

Robert Creps PES Environmental, Inc, 1682 Novato Blvd, Suite 100, Novato, CA 94947 (sent via electronic mail to RCreps@pesenv.com)

Dilan Roe, ACDEH, (sent via electronic mail to dilan.roe@acgov.org)

Mark Detterman, ACDEH, (sent via electronic mail to mark.detterman@acgov.org)

Geotracker, Electronic File

Underground Storage Tank Case Closure Summary Form

Agency Information

Date: February 18, 2016

	Date: 1 ebidary 10, 2010
Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6876
Case Worker: Mark Detterman	Title: Senior Hazardous Materials Specialist

Case Information

Facility Name: Richardson / Syba	ise	
Facility Address: 6603 Bay (Shell	mound) Street, Emeryville, CA 9460	8
Regional Water Board LUSTIS	Former ACDEH Case No.: 3710	Current LUST Case No.: RO0000043
Case No: 01-0516		
Unauthorized Release Form Filing Date: 8/30/1989	State Water Board GeoTracker GI	obal ID: T0600100470
Assessor Parcel Number: 49-1490-1	Current Land Use: Commercial	
Responsible Party(s):	Address:	Phone:
Thomas Richardson and Edith Jackson	PO Box 7817 Berkeley, CA 94707	
Griffin Capital Investors, LLC c/o Julie Treinen	6601 – 6603 Shellmound Street Emeryville, CA 94608	
SAP America, Inc. (Sybase, Inc.) c/o Dwain Christensen	3410 Hillview Avenue Palo Alto, CA 94304	
Wintzen Inc c/o Jacon Warren	6601 Shellmound Street Emeryville, CA 94608	

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place / Removed	Date
	7,500-gallon	Gasoline	Removed	October 10, 1989
	2,000-gallon	Gasoline	Removed	October 10, 1989

Underground Storage Tank Case Closure Summary Form

Site Closure Evaluation Summary

This UST release case has been evaluated for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP) for petroleum related contaminants for the current commercial land use scenario.

Case closure is granted for the current commercial land use.

Refer to Attachments 1 through 5 for analysis details.

Site Management Requirements

Case closure is granted for the current commercial land use.

Due to residual subsurface contamination remaining at the site (elevated soil contamination and pockets of free phase in soil), if any redevelopment occurs, including building footprint modifications, or if a change in land use to residential, or other conservative land use, Alameda County Department of Environmental Health (ACDEH) must be notified as required by Government Code Section 65850.2.

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.

This site is to be entered into the City of Emeryville Permit Tracking System due to the residual contamination on site.

Institutional Controls

See above.		
Engineering Controls		
Not Applicable		
Not Applicable		
Not Applicable	8	
Not Applicable	8	
Not Applicable	5	
Not Applicable	±	
Not Applicable		
Not Applicable	e .	
Not Applicable	5	
Not Applicable	2	

Underground Storage Tank Case Closure Summary Form

Case Closure Public Notification Information

Agency Type	Agency Name	Contact Information
Regional Water Board	San Francisco Bay	Laurent Meillier 1515 Clay Street, Suite 1400 Oakland, CA 94612
Municipal and County Water Districts	East Bay Municipal Utility District	Chandra Johannesson P.O. Box 24055, MS 702 Oakland, CA 94623
Water Replenishment Districts	Not Applicable	
Groundwater Basin Managers	Not Applicable	
Planning Agency	City of Emeryville	City of Emeryville Planning Division 1333 Park Avenue Emeryville, CA 94608
Public Works Agency	City of Emeryville	Michael Roberts City of Emeryville Public Works Division 1333 Park Avenue Emeryville, CA 94608
Owners and Occupants of Property and Adjacent Parcels	See List in Attachment 7	

Local Agency Signatures

Title: Senior Hazardous Materials Specialist
Date:
Title: LOP and SCP Program Manager
Date:
_

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.

Geotracker Conceptual Site Model (Attachment 1, 1 page)

Geotracker LTCP Checklist (Attachment 2, 1 page)

Groundwater Evaluation and Data (Attachment 3, 20 pages)

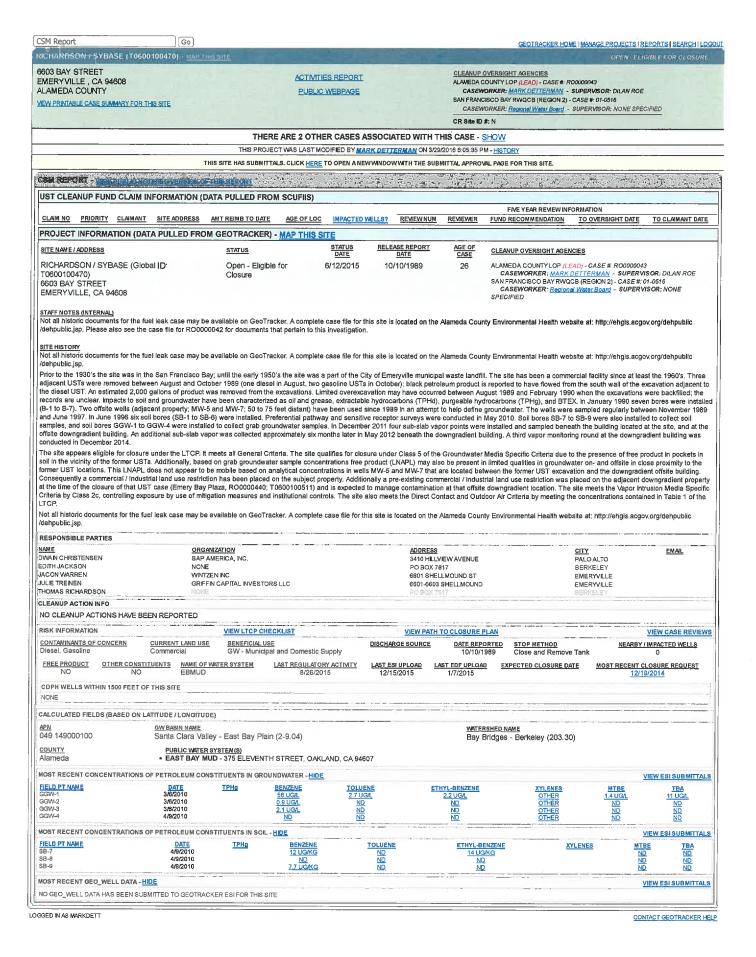
Vapor Intrusion Evaluation and Data (Attachment 4, 4 pages)

Soil Evaluation and Data (Attachment 5, 15 pages)

Responsible Party Information (Attachment 6, 11 pages)

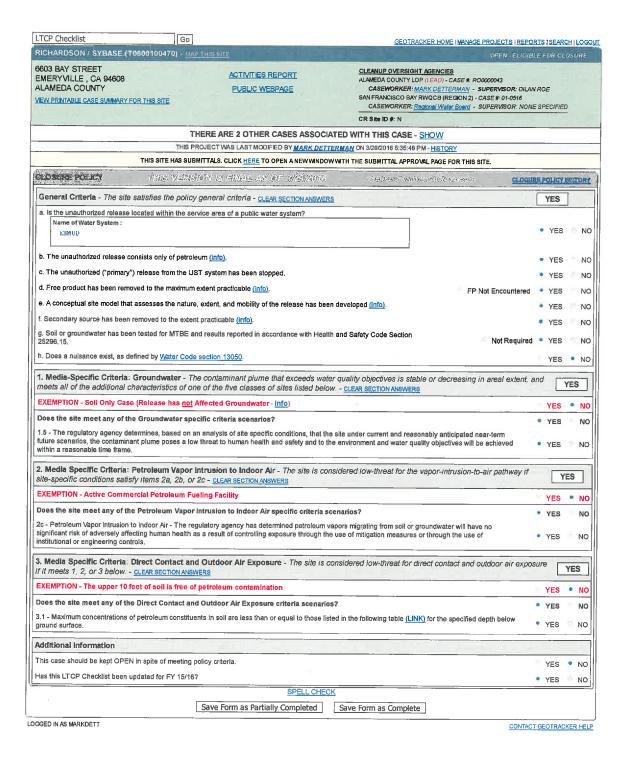
Case Closure Public Notification Information (Attachment 7, 2 pgs)

ATTACHMENT 1



1 of 1

ATTACHMENT 2



1 of 1

ATTACHMENT 3

Attachment 3 - Groundwater Evaluation and Data

	LTCP GROUND	· · · · · · · · · · · · · · · · · · ·				
		Closure	Scenario			
Site has r	not affected groundwate		io 1; Scer cenario 5	nario 2; So	cenario 3;	Scenario 4;
	Evaluatio	n Criteria: Sh	ading indicate	es criteria met		
Site Spe	ecific Data	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
Plume Length	~ 500 feet	<100 feet	<250 feet	<1,000 feet	<1,000 feet	
Free Product	Removed to maximum extent practicable	No free product	No free product	Removed to maximum extent practicable	No free product	The site does not
Plume Stable or Decreasing	Stable or decreasing	Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 years	Stable or decreasing	meet scenarios 1 through 4; however, a determination been made that
Distance to Nearest Water Supply Well (from plume boundary)	> 1,700 feet (DWR / ACPWA) >2,000 (GAMA)	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet	under current and reasonably expected future scenarios, the
Distance to Nearest Surface Water Body (from plume boundry)	Downgradient: 660 feet Cross Gradient: 1,700 feet Upgradient: 1,900 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet	contaminant plume poses a low threat to human health and safety and to the environment
Benzene Concentrations (µg/l)	Historic Max: <50,000 (grab) Current Max: <1.0	No criteria	<3,000	<1,000	<1,000	and water quality objectives will be achieved within a reasonable time
MTBE Concentrations (µg/l)	Historic Max: 15 Current Max: <1.0	No criteria	<1,000	<1,000	<1,000	frame.
Property Owner Willing to Accept a Land Use Restriction	Yes	Not applicable	Not applicable	Yes	Not applicable	

Notes: DWR = Department of Water Resources

ACPWA = Alameda County Public Works Agency

GAMA = Groundwater Ambient Monitoring Assessment (GeoTracker)

Attachment 3 – Groundwater Evaluation and Data

	Analysis
Plume Length	Defined to water quality objectives by wells MW-3, MW-5, and MW-7. Contaminant plume that exceeds water quality objectives is approximately 500 feet in length.
Free Product	Appears to be present in pockets in soil in the vicinity of the former USTs; however, based on grab groundwater sample concentrations free product may also be present in limited qualities in groundwater on- and offsite in close proximity to the former UST locations. This LNAPL does not appear to be mobile based on analytical concentrations in wells MW-5 and MW-7 that are located between the former UST excavation and the downgradient offsite building. A commercial / industrial land use restriction has been placed on the property due to the presence of elevated hydrocarbon concentrations in soil, free product in pockets of soil beneath the site, and in groundwater in close proximity to the former UST locations.
	Excavation or construction activities in areas of potential residual contamination will be managed with a land use restriction, and require planning and implementation of appropriate health and safety procedures by the responsible party, or current property owner, prior to and during excavation and construction activities.
Plume Stability	Plume is stable in aerial extent based on a number of years of monitoring, including recent concentration trends. (The contaminant mass has expanded to its maximum extent defined as the distance from the release where attenuation exceeds migration.)
Water Supply Wells	An Alameda County Public Works Agency (ACPWA) and the Department of Water Resources (DWR) well survey indicate no public water supply wells and irrigation wells within 1,700 feet of the plume boundary. The well survey results from the GeoTracker Groundwater Ambient Monitoring Assessment (GAMA) website indicates 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	The site is on developed lands within the historic former margin of the San Francisco Bay. San Francisco Bay is approximately 660 feet downgradient to the southwest of the defined plume edge. The former outlet of Derby Creek to San Francisco Bay is approximately 1,700 feet crossgradient to the southeast. Derby Creek is also approximately 1,900 feet upgradient to the east.



Notes:

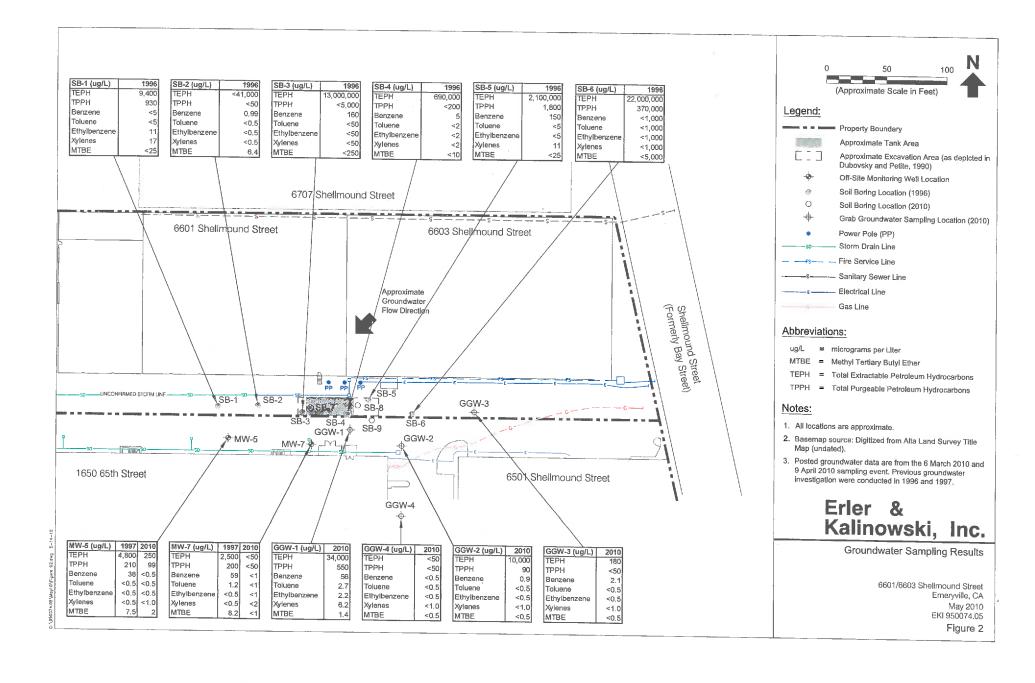
All locations are approximate.

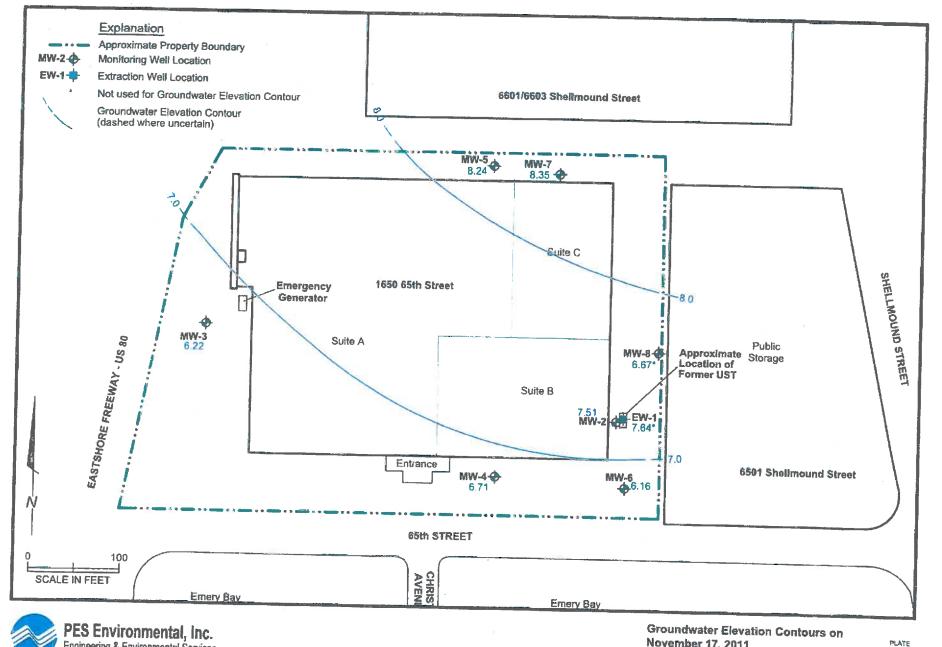


Erler & Kalinowski, Inc.

Site Location Map

6601/6603 Shellmound Street
Emeryville, CA
July 2012
EKI 950074.05
Figure 1







November 17, 2011 1650 65th Street Emeryville, California

1211.001.01.003 121100101003_11Q4 1-4

CJB

JOB NUMBER

DRAWING NUMBER

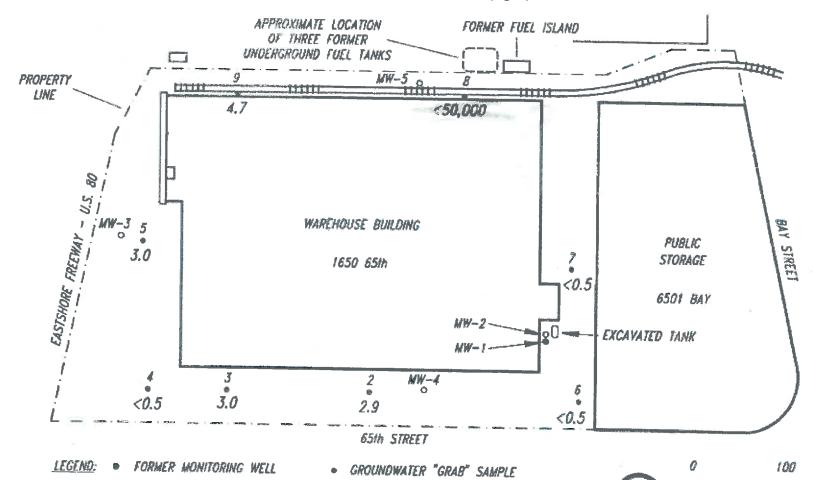
REVIEWED BY

1/12

DATE

BENZENE CONCENTRATIONS GROUNDWATER "GRAB" SAMPLE SURVEY

1650 65th Street Property 10 NOVEMBER 1989(ug/L)



FIGURE

N

SCALE IN FEET

SCIENC

ENGINEERING

C107-06.82 11/20/88

MONITORING WELL EXCAVATED TANK

TABLE 2.1 GROUNDWATER "GRAB" SAMPLE ANALYTICAL RESULTS
1650 65th Street Property
10 November 1989

Sample Location	Depth (Feet)	Gasoline (mg/L)	Benzene (μg/L)	Toluene (μg/L)	Total Xylenes (μg/L)	Ethylbenzene (μg/L)
GW-1	Drill Refusal at 9.5'	NS	NS	NS	NS	NS
GW-2	10-11	< 0.05	2.9	0.8	<1.0	<0.5
GW-3	10-11	0.1	3.0	0.9	<1.0	2.1
GW-4	9.5 - 10.5	< 0.05	<0.5	<0.5	<1.0	
GW-5	8-9	0.12	3.0	0.8	1.6	<0.5 2.4
GW-6	9-10	< 0.05	<0.5	<0.5	2.3	
GW-7	9-10	< 0.05	<0.5	<0.5	<1.0	<0.5 <0.5
GW-81	7.5-8.5	94,000	<50,000	<50,000	<100,000	
∃ W -9	8-9	0.17	4.7	<0.5	<1.0	<50,000 5.1

¹Collected free product sample.

NS = Not Sampled

Table 6 Historical Water-Levels in Monitoring Wells MW-3, MW-5, and MW-7

6601/6603 Shellmound St., Emeryville, California (EKI 950074.05)

		Top of		Top of	1		
	1	Casing	Depth to	Screen	Top of Screen	Groundwater	Field
Well	Date	Elevation	Water	Depth	Elevation (a)	Elevation	Data
		(ft NAVD88)	(ft bTOC)	(ft bgs)	(ft NAVD88)	(ft NAVD88)	Source
	21-Feb-90	14.92	9.18	6.6	8.82	5.74	ES
MW-3	25-May-90	14.92	9.25	6.6	8.82	5.67	ES
	29-Aug-90	14.92	9.50	6.6	8.82	5.42	ES
	28-May-91	14.92	9.03	6.6	8.82	5.89	ES
	1-Aug-91	14.92	NA	6.6	8.82	-	ES
	27-Jan-92	14.92	9.44	6.6	8.82	5.48	PES
	28-Feb-92	14.92	8.80	6.6	8.82	6.12	PES
	28-May-92	14.92	8.80	6.6	8.82	6,12	PES
	27-Aug-92	14.92	9.18	6.6	8.82	5.74	PES
	10-Nov-92	14.92	9.44	6.6	8.82	5.48	PES
	18-Feb-93	14.92	7.59	6.6	8.82	7.33	PES
	20-May-93	14.92	8.21	6.6	8.82	6.71	PES
	19-Aug-93 15-Nov-93	14.92	8.71	6.6	8.82	6.21	PES
	14-Feb-94	14.92 14.92	9.09 8.84	6.6	8.82	5.83	PES
	16-May-94	14.92	8.84 8.18	6.6 6.6	8.82	6.08	PES
	10-may-54 10-Aug-94	14.92	8.72	6.6	8.82	6.74	PES
	3-Nov-94	14.92	8.13	6.6	8.82 8.82	6.20	PES
	9-Feb-95	14.92	6.86	6.6	8.82 8.82	6. 79 8.06	PES PES
	9-May-95	14.92	7.16	6.6	8.82	7.76	PES
	10-Aug-95	14.92	8.00	6.6	8.82	6.92	PES
	13-Nov-95	14.92	8.44	6.6	8.82	6.48	PES
	2-Mar-96	14.92	7.31	6.6	8.82	7.61	PES
	9-May-96	14.92	7.72	6.6	8.82	7.20	PES
	8-Aug-96	14.92	8.22	6.6	8.82	6.70	PES
	11-Nov-96	14.92	8.67	6.6	8.82	6.25	PES
	14-Feb-97	14.92	7.18	6.6	8.82	7.74	PES
	14-May-97	14.92	8.03	6,6	8.82	6.89	PES
	12-Aug-97	14.92	7.39	6.6	8.82	7.53	PES
	12-Nov-97	14.92	8.53	6.6	8.82	6.39	PES
	4-Feb-98	14.92	7.39	6.6	8.82	7.53	PES
	18-May-98	14.92	7.31	6.6	8.82	7.61	PES
	11-Aug-98	14.92	7.95	6.6	8.82	6.97	PES
i	17-Dec-98	14.92	8.58	5.6	8.82	6.34	PES
ļ	7-Oct-99	14.92	8.25	6.6	8.82	6.67	PES
	12-Oct-00	14.92	8.22	6.6	8.82	6.70	PES
	6-Oct-10	14.92	8.41	6.6	8.82	6.51	PES
	26-May-11	14.92	7.72	6.6	8.82	7.20	PES
	17-Nov-11	14.92	8.70	6.6	8.82	6.22	PES
l	1-Dec-11	14.92	8.70	6.6	8.82	6.22	EKI
J	23-May-12	14.92	8.29	6.6	8.82	6.63	PES
	21-Nov-12	14.92	8.36	6.6	8.82	6.56	PES

Table 6 Historical Water-Levels in Monitoring Wells MW-3, MW-5, and MW-7

6601/6603 Shellmound St., Emeryville, California (EKI 950074.05)

	T	T				*	
		Top of	Dandle 4-	Top of	Top of Screen		-
Well	- Control	Casing	Depth to	Screen		Groundwater	Field
AACII	Date	Elevation	Water	Depth	Elevation (6)	Elevation	Data
	21-Feb-90	(ft NAVD88)	(ft bTOC)	(ft bgs)	(ft NAVD88)	(ft NAVD88)	Sourc
MW-5	1	15.34	6.91	6.7	9.14	8.43	ES
MINA-0	25-May-90	15.34	7.58	6.7	9.14	7.76	ES
	29-Aug-90	15.34	7.75	6.7	9.14	7.59	ES
	29-Nov-90	15.34	8.17	6.7	9.14	7.17	ES
	1-Mar-91	15.34	8.11	6.7	9.14	7.23	ES
	28-May-91	15.34	7.39	6.7	9.14	7.95	ES
	1-Aug-91	15.34	NA Trans	6.7	9.14	-:	ES
	27-Jan-92	15.34	7.90	6.7	9.14	7.44	PES
	28-Feb-92	15.34	7.73	6.7	9.14	7.61	PES
	28-Mary-92	15.34	7.18	6.7	9.14	8.16	PES
	27-Aug-92	15.34	7.54	6.7	9.14	7.80	PES
	10-Nov-92	15.34	7.90	6.7	9.14	7.44	PES
	18-Feb-93	15.34	6.58	6.7	9.14	8.76	PES
	20-May-93	15.34	6.29	6.7	9.14	9.05	PES
	19-Aug-93	15.34	6.89	6.7	9.14	8.45	PES
	15-Nov-93	15.34	7.43	6.7	9.14	7.91	PES
	14-Feb-94	15.34	7.16	6.7	9.14	8.18	PES
	16-May-94	15.34	6.50	6.7	9.14	8.84	PES
	10-Aug-94	15.34	6.98	6.7	9.14	8.36	PES
	3-Nov-94	15.34	7.36	6.7	9.14	7.98	PES
	9-Feb-95	15.34	5.68	6.7	9.14	9.66	PES
	9-May-95	15.34	5.36	6.7	9.14	9.98	PES
	10-Aug-95	15.34	6.29	6.7	9.14	9.05	PES
	13-Nov-95	15.34	6.89	6.7	9.14	8.45	PES
	2-Mar-96	15.34	7.26	6.7	9.14	8.08	PES
	9-May-96	15.34	6.00	6.7	9.14	9.34	PES
	15-Jun-96	15.34	6.20	6.7	9.14	9.14	EKI
	8-Aug-96	15.34	6.67	6.7	9.14	8.67	PES
	11-Nov-96	15.34	6.69	6.7	9.14	8.65	PES
	27-Dec-96	15.34	6.53	6.7	9.14	8.81	EKI
	14-Feb-97	15.34	5.88	6.7	9.14	9.46	PES
	14-May-97	15.34	6.25	6.7	9.14	9.09	PES
	19-Jun-97	15.34	6.54	6.7	9.14	8.80	EKI
	12-Aug-97	15.34	6.77	6.7	9.14	8.57	PES
	12-Nov-97	15.34	7.21	6.7	9.14	8.13	PES
	4-Feb-98	15.34	6.81	6.7	9.14	8.53	PES
	18-May-98	15.34	4.81	6.7	9.14	10.53	PES
ł	11-Aug-98	15.34	6.38	6.7	9.14	8.96	PES
	17-Dec-98	15.34	7.00	6.7	9.14	8.34	PES
	7-Oct-99	15.34	7.23	6.7	9.14	8.11	PES
	12-Oct-00	15.34	7.30	6.7	9.14	8.04	PES
1	6-Mar-10	15.34	6.81	6.7	9.14	8.53	EKI
	6-Oct-10	15,34	6.83	6.7	9.14	8.51	PES
ľ	26-May-11	15.34	6.45	6.7	9.14	8.89	PES
	17-Nov-11	15.34	7.10	6.7	9.14	8.24	PES
	1-Dec-11	15.34	7.20	6.7	9.14	8.14	EKI
	23-May-12	15.34	6.91	6.7	9.14	8.43	PES
	21-Nov-12	15.34	7.71	6.7	9.14	7.63	PES

Table 6 Historical Water-Levels in Monitoring Wells MW-3, MW-5, and MW-7

6601/6603 Shellmound St., Emeryville, California (EKI 950074.05)

		Top of		Top of			-
		Casing	Depth to	Screen	Top of Screen	Groundwater	Field
Well	Date	Elevation	Water	Depth	Elevation (a)	Elevation	Data
		(ft NAVD88)	(ft bTOC)	(ft bgs)	(ft NAVD88)	(ft NAVD88)	Source
	1-Mar-91	15.45	7.51	6.7	9.25	7.94	ES
MW-7	28-May-91	15.45	7.07	6.7	9.25	8.38	ES
	1-Aug-91	15.45	NA	6.7	9.25	-	ES
	27-Jan-92	15.45	7.28	6.7	9.25	8.17	PES
	28-Feb-92	15.45	7.04	6.7	9.25	8.41	PES
	28-May-92	15.45	6.81	6.7	9.25	8.64	PES
	27-Aug-92	15.45	7.12	6.7	9.25	8.33	PES
	10-Nov-92	15.45	7.80	6.7	9.25	7.65	PES
	18-Feb-93	15.45	6.54	6.7	9.25	8.91	PES
	20-May-93	15.45	6.17	6.7	9.25	9.28	PES
	19-Aug-93	15.45	6.60	6.7	9.25	8.85	PES
	15-Nov-93	15.45	6.89	6.7	9.25	8.56	PES
	14-Feb-94	15.45	6.50	6.7	9.25	8.95	PES
	17-May-94	15.45	6.07	6.7	9.25	9.38	PES
35	10-Aug-94	15.45	6.34	6.7	9,25	9.11	PES
	3-Nov-94	15.45	6.18	6.7	9.25	9.27	PES
	9-Feb-95	15.45	5.57	6.7	9.25	9.88	PES
	9-May-95	15.45	5.15	6.7	9.25	10.30	PES
	10-Aug-95	15.45	5.72	67	9.25	9.73	PES
	13-Nov-95	15.45	5.98	6.7	9.25	9.47	PES
1	2-Mar-96	15.45	6.02	6.7	9.25	9.43	PES
	9-May-96	15.45	6.11	6.7	9.25	9.34	PES
	16-Jun-96	15.45	6.11	6.7	9.25	9.34	EKI
	8-Aug-96	15.45	6.87	6.7	9.25	8.58	PES
	11-Nov-96	15.45	6.39	6.7	9.25	9.06	PES
	27-Dec-96	15.45	5.94	6.7	9.25	9.51	EKI
i	14-Feb-97	15.45	5.97	6.7	9.25	9.48	PES
1	14-May-97	15.45	5.89	6.7	9.25	9.56	PES
	19-Jun-97	15.45	6.32	6.7	9.25	9.13	EK)
- [12-Aug-97	15.45	6.56	6.7	9.25	8.89	PES
	12-Nov-97	15.45	6.76	6.7	9.25	8.69	PES
	4-Feb-98	15.45	5.94	6.7	9.25	9.51	PES
- 1	6-Mar-10	15.45	5.46	6.7	9.25	9.99	EKI
	6-Oct-10	15.45	5.78	6.7	9.25	9.67	PES
- 1	26-May-11	15.45	5.80	6.7	9.25	9.65	PES
i	17-Nov-11	15.45	7.10	6.7	9.25	8.35	PES
	1-Dec-11	15.45	6.23	6.7	9.25	9.22	EKI
	23-May-12	15.45	5.97	6.7	9.25	9.48	PES
	21-Nov-12	15.45	4.44	6.7	9.25	11.01	PES

⁽a) Ground surface elevation not available; assumed depth to top of casing is 0.5 ft bgs.
(b) Field Data Sources other than EKI: PES = PES Environmental, Inc.; ES = Engineering Science, Inc.

Table 1
Summary of Analytical Results for Groundwater Samples from Monitoring Wells^(a)
6601/6603 Shellmound Street, Emeryville, California

				Chemica	I Concentr	ation (ug/L)		
						Ethyl-	Total	
Well Number	Sample Date	TPPH	TEPH	Benzene	Toluene	benzene	Xylenes	MTBE
	Nov 89	130	NA	2.2	ND	ND	3	NA
MW-3	Feb 90	ND ^(b)	NA	2.5	ND	ND	ND	NA
	May 90	ND	ND	2	ND	ND	ND	NA
	Aug 90	ND	800	4.4	2.9	ND	5.4	NA
	Nov 90	900	800	3.4	ND	ND	ND	NA
	Mar 91	ND	ND	25	25	5.3	320	NA
	May 91	ND	ND	2.6	ND	ND	ND	NA
	Aug 91	ND	ND	1.9	ND	ND	ND	NA
	29 Jan 92	92	NA	2.4	<0.3	0.6	< 0.3	NA
	28 Feb 92	160	NA	2.8	<0.3	0.7	0.5	NA
	28 May 92	<50	NA	2.5	<0.5	<0.5	<0.5	NA
	27 Aug 92	370	NA	4	<1	<0.5	<0.5	NA
	10 Nov 92	240	<100	4.2	<0.3	<0.3	<0.6	NA
	18 Feb 93	140	NA	1.8	<0.5	<0.5	<0.5	NA
	20 May 93	72	NA	3.1	<0.5	<0.5	<0.5	NA
	19 Aug 93	<50	NA	3.2	<0.5	<0.5	0.7	NA
	15 Nov 93	70	NA	2.3	0.7	<0.5	1.5	NA
	14 Feb 94 16 May 94	120	NA NA	5.3	2.3	1.2	4.2	NA
		120	NA NA	3.1	<0.5	<0.4	1.7	NA
	10 Aug 94 3 Nov 94	100	NA	3	<0.5	0.5	<2	NA
	9 Feb 95	100	NA	3	<0.5	<0.5	<2	NA
	9 May 95	100	NA NA	2	<0.5	<0.5	<2	NA
	10 Aug 95	100	NA NA	3	<0.5	0.5	<2	NA
	13 Nov 95	<50	NA NA	3	<0.5 <0.5	<0.5	<2	NA NA
	1 Dec 11	73	<50	2.8	<0.5	<0.5	<2	NA .
	Nov 89	ND ND	NA NA	74	ND	<0.5 ND	<0.5	1.5
MW-5	Feb 90	ND ND	NA NA	200	ND	ND	4.2 ND	NA NA
	May 90	ND	ND	110	ND	ND	ND	NA NA
	Aug 90	ND	700	66	2.2	ND	3.8	NA
	Nov 90	600	900	69	ND	ND	ND	NA
	Mar 91	ND	1100	66	2.3	ND	ND	NA
	May 91	ND	ND	110	ND ND	ND	ND	NA.
	Aug 91	ND	ND	78	2.1	ND	ND	NA
	29 Jan 92	190	NA	90	0.5	<0.3	0.6	NA
	28 Feb 92	230	NA	110	0.9	<0.3	0.5	NA
	28 May 92	130	NA	100	<0.5	<0.5	<0.5	NA NA
	27 Aug 92	520	NA	83	2	<0.5	<0.5	NA
	10 Nov 92	240	<100	74	1	<0.3	<0.6	NA
	18 Feb 93	190	NA	56	0.6	<0.5	<0.5	NA
	20 May 93	<200	NA	56	<2	<2	<2	NA
	19 Aug 93	170	NA	50	0.7	<0.5	<0.5	NA
	15 Nov 93	220	NA	49	1	<1	<1	NA
	14 Feb 94	140	NA	62	<0.5	<0.5	<0.5	NA
	16 May 94	310	NA	140	3	<3	<3	NA
	12 Aug 94	500	NA	95	34	4	14	NA
	3 Nov 94	400	NA	79	0.6	<0.5	<2	NA
	9 Feb 95	300	NA	74	0.8	<0.5	<2	NA
	9 May 95	200	NA	47	0.5	<0.5	<2	NA
	10 Aug 95	200	NA	46	0.5	<0.5	<2	NA
	13 Nov 95	300	NA	48	0.7	<0.5	<2	NA
	15 Jun 96	180	<40,000	39	<0.5	<0.5	<0.5	8.1
	27 Dec 96	220	4,500	54	0.5	<0.5	<0.5	15.
	19 Jun 97 ·	210	4,800	38	<0.5	<0.5	<0.5	7.5
	6 Mar 10	99	250	<0.5	<0.5	<0.5	<1	2
	1 Dec 11	180	250	<0.5	<0.5	<0.5	<1	2.2

Table 1
Summary of Analytical Results for Groundwater Samples from Monitoring Wells^(a)
6601/6603 Shellmound Street, Emeryville, California

				Chemica	al Concenti	ation (ug/L)	
Well Number	Sample Date	ТРРН	TEPH	Bannana	T-1	Ethyl-	Total	
TTON ITANIACI	May 90	NA	600	Benzene	Toluene	benzene	Xylenes	MTBE
MW-7	Aug 90	ND ND	ND	240	ND	ND	ND	NA
IVIVY-/	Nov 90	ND		81	1.8	ND	ND	NA
	Mar 91	ND ND	800	54	ND	ND	ND	NA NA
	May 91	ND ND	ND	100	3.6	ND	ND	NA
			ND	120	2.7	ND .	ND	NA
	Aug 91	ND	ND	74	3.3	ND	ND	NA
	29 Jan 92	270	NA	25	0.5	<0.3	0.8	NA
	28 Feb 92	100	NA	33	0.7	<0.3	0.7	NA
	28 May 92	150	NA	21	<0.5	<0.5	<0.5	NA
	27 Aug 92	440	NA	11	1	<0.5	<0.5	NA
	10 Nov 92	370	<100	31	1.2	<0.3	1.2	NA
	18 Feb 93	270	NA	77	1.3	<0.5	1.4	NA
	20 May 93	300	NA	150	3	<2	3	NA
	19 Aug 93	110	NA_	40	1	<0.5	1.1	NA
	15 Nov 93	120	NA_	15	0.6	<0.5	2.3	NA
	14 Feb 94	120	NA	38	<0.5	<0.5	<0.5	NA
	17 May 94	<300	NA	61	<3	<3	<3	NA
	10 Aug 94	100	NA	9	<0.5	<0.5	<2	NA
	3 Nov 94	100	NA	3	< 0.5	<0.5	<2	NA
	9 Feb 95	200	NA	50	0.6	<0.5	<2	NA
	9 May 95	300	NA	120	1	<0.5	<2	NA
	10 Aug 95	<50	NA	7	<0.5	<0.5	<2	NA
	13 Nov 95	90	NA	3	<0.5	< 0.5	<2	NA
	16 Jun 96	<50	1,000	47	0.87	<0.5	0.8	6.5
	27 Dec 96	110	2,300	35	0.88	<0.5	0.79	5
	19 Jun 97	200	2,500	59	1.2	< 0.5	<0.5	8.2
	6 Mar 10	<50	<50	<1	<1	• <1	<2	<1
	1 Dec 11	<50	<50	<1	<1	<1	<2	<1
Groundwater		n/a	n/a	1,800	530,000	170,000	160.000	80,000
Commercial / Ind	iustrial'"			,,,,,,	230,000	,000	100,000	50,000

Abbreviations:

TPPH = total purgeable petroleum hydrocarbons quantified as gasoline

TEPH = total extractable petroleum hydrocarbons quantified as diesel

MTBE = methyl tert-butyl ether

NA = not analyzed

n/a = not applicable

ND = not detected; historical data with unknown laboratory reporting limit.

ug/L = micrograms per liter

< X = analyte not detected above the indicated laboratory reporting limit of X ug/L.

Notes:

- (a) Samples collected from 1996 to 2011 by Erler & Kalinowski, Inc. Samples from 2011 were analyzed for TPPH and TEPH by EPA Method 8015 and for VOCs and fuel oxygenates using EPA Method 8260. The 2011 data only shows detected analytes (no halogenated VOCs were detected). Samples collected prior to 1992 by Engineering Science. All other data are from PES Environmental, Inc. (December 1995).
- (b) Detection limits were not published in PES (1995), thus reporting limits are not shown for samples from this source.
- (c) In addition to the analytes listed, isopropylbenzene and sec-butylbenzene were detected at 0.6 ug/L each in the December 2011 sample from well MW-3.
- (d) In addition to the analytes listed, isopropylbenzene was detected at 2.4 ug/L, sec-butylbenzene was detected at 0.9 ug/L, and n-propylbenzene was detected at 3.3 ug/L in the December 2011 sample from well MW-5.

Table 2 Summary of Grab Groundwater Analytical Data from the Spring 2010 Investigation

6601/6603 Shellmound Street, Emeryville, California

			Compounds L) ^(a,b)				Volatil	e Organic Co	ompounds (ı	ıg/L) ^(a,c)					
Location Date		TEPH	ТРРН	Benzene	Toluene	Ethyl- benzene	Xylenes (m&p)	Xylene (o)	Diiso- propyl ether	MTBE	Tert- butyl alcohol	1,2- Dibromo- ethane	1,2- Dichloro- ethane	PAHs ^(a,d)	TDS (mg/L)
GGW-1	3/6/2010	34,000	550	56	2.7	2.2	4	2.2	<0.5	1.4	11	<0.5	<0.5	ND	4.400
GGW-2	3/6/2010	10,000	90 ^(e)	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5		1,420
GGW-3	3/6/2010	180 ^(e)	<50	2.1	<0.5	<0.5	<0.5	<0.5	2.4	<0.5	<10			ND	700
GGW-4	4/9/2010	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	ND	1,530
MVV-5	3/6/2010	250 ^(e)	99 ^(e)	<0.5	<0.5	<0.5	<u>:</u>			<0.5	<10	<0.5	<0.5	ND	690
MW-7	3/6/2010	<50	<50				<0.5	<0.5	<0.5	2	<10	<0.5	<0.5	ND	1,290
ESL for drinking wa			\30	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	ND	780
consumption		210	210	1	150	300	180	00	-	13	12	0.05	0.5	-	500 to
ESL for Commercia intrusion	V Industrial vapor	-	-	1,800	530,000	170,000	160.	000		80,000	_	F40			1,500
ESL for gross conta in drinking water	mination,	100	100	170	40					00,000	<u>-</u>	510	690	-	
ESL for gross conta	mination				40	30	20)	-	5	50,000	50,000	7,000	-	-
in non-drinking water	er	2,500	5,000	20,000	400	300	5,3	00	_	1,800	50,000	50,000	50,000		
San Francisco Bay (see Reference 2)	Basin Plan	-	-	1	150	300	471						50,000		
(See Neichence 2)					750	300	175	ן טפ	-	13	-	0.05	0.5	-	3,000

Abbreviations:

"C/I" = commercial/industrial land use

"ESL" = Environmental Screening Level (see Reference 1)

"MCL" = Maximum Contaminant Level

"ND" = not detected above laboratory reporting limits

"MTBE" = Methyl-tert-Butyl Ether

"PAHs" = polycyclic aromatic hydrocarbons

"TEPH" = total extractable petroleum hydrocarbons, quantified as diesel

"TPPH" = total purgeable petroleum hydrocarbons, quantified as gasoline

"ug/L" = micrograms per liter

"VOCs" = volatile organic compounds

Notes:

- (a) Concentrations exceeding at least one of the screening criteria are shown in bold text.
- (b) TEPH and TPPH were analyzed using EPA Method 8015M.
- (c) VOCs were analyzed using EPA Method 8260B. This table only includes detected analytes.
- (d) PAHs were analyzed using EPA Method 8270. No PAHs were detected in the groundwater samples.
- (e) Sample exhibits a chromatographic pattern which does not resemble the standard.

References:

- 1. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, California Regional Water Quality Control Board, San Francisco Bay Region, revised May 2008.
- 2. San Francisco Bay Basin (Region 2) Water Quality Control Plan (Basin Plan), California Regional Water Quality Control Board, San Francisco Bay Region, January 2007.

Table 4 Groundwater Sample Analytical Results for Naphthalene

6601/6603 Shellmound St., Emeryville, California

Sample ID	Sample Date	Naphthalene ^(a) (ug/L)
SB-6	6/15/1996	<100000
GGW-1	3/6/2010	<98
GGW-2	3/6/2010	<9.9
GGW-3	3/6/2010	<9.4
GGW-4	4/9/2010	<9.9
2013 RWQCB Commerci Groundwater ESL (b)	ial/Industrial Land Use	1,600
2013 RWQCB Residentia Groundwater ESL (b)	nl Land Use	160

Abbreviations:

< 9.4: compound not detected at or above the laboratory reporting limit of 9.4 ug/L

ESL: Environmental Screening Level (RWQCB, December 2013)

ug/L - micrograms per liter

RWQCB: California Regional Water Quality Control Board, San Francisco Bay Region

Notes:

- (a) Samples collected in 2010 were analyzed by Curtis & Tompkins, Ltd., of Berkeley, California using EPA method 8270C. Sample collected on 1996 was analyzed by Sequoia Analytical of Sacramento, California using EPA method 8100.
- (b) Naphthalene groundwater ESLs for commercial/industrial and residential land uses, assuming fine / coarse mixed solls are from Table E-1, *Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion (volatile chemicals only)*, RWQCB (2013).

References

RWQCB, 2013. San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels. Interim Final, December 2013.

Table 6

Concentrations of Petroleum Hydrocarbon-Related Compounds in Groundwater Samples (a)

in Groundwater Samples (a 6601 and 6603 Bay Street Sybase, Inc.

Emeryville, California (EKI 950074.03)

						PA	AHs
Sample ID (b)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	МТВЕ	Acenaph- thene	Fluorene
	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
SB-1	<5	<5	11	17	<25	NA	NA .
SB-2	0.99	<0.5	<0.5	<0.5	6.4	NA	. NA
SB-3	160	<50	<50	<50	<250	NA	NA
SB-4	5.0	₋ <2	<2	<2	<10	NA	NA
SB-5	150	<5	<5	11	<25	NA	NA
SB-6	<1,000	<1,000	<1,000	<1,000	<5,000	12,000- 42,000 (c)	25,000- 96,000 (c)
MW-5	39	<0.5	<0.5	<0.5	8.1	NA	NA
MW-7	47	0.87	<0.5	0.8	6.5	NA	NA
\$\$\$\$##################################	410>>>2000	*10100110111011111111111111111111111111	******************************	lâsosocoasyspuy baagasyypuy g	73404B-01884N44A-017-1179140	0 h b-61 6-44 b'6 s p 7 s 4-9 g s p 4 s 9 s 6 s 5 s 5 s	~0112078104b01010Dfpb6f4
PRG (d)	0.39	720	1,300	1,400	180	370	240
MCL (e)	1	150	700	1,750	- (f)	94	-

Notes:

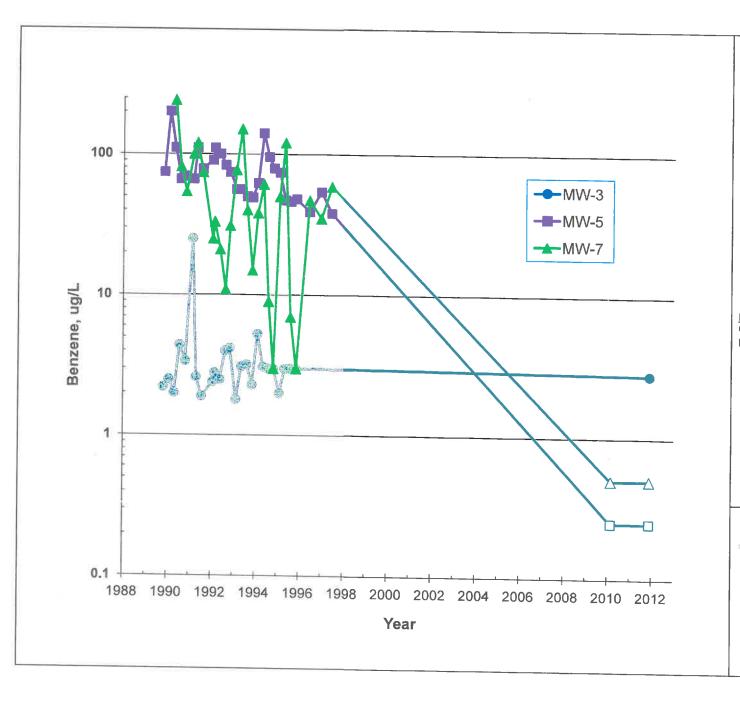
- (a) Groundwater samples collected by Erier & Kalinowski, Inc. on 15 and 16 June 1996.
- (b) Sampling locations corresponding to Sample ID are shown in Figure 2.
- (c) Laboratory indicated that results may be artificially high due to presence of unknown, interfering hydrocarbon. PAHs are most likely associated with free product present in groundwater sample. Therefore, the reported concentrations are likely to be greater than actual aqueous concentrations. Sample analyzed after hold time.
- (d) U.S. EPA Preliminary Remediation Goals ("PRGs") for drinking water (U.S. EPA, 1 September 1995).
- (e) Maximum Contaminant Levels ("MCLs") for drinking water.
- (f) Hyphen indicates that an MCL is not available for this compound.

Abbreviations:

MTBE = Methyl tertiary butyl ether

PAHs = Polycyclic Aromatic Hydrocarbons

NA = Not analyzed



Note:
Open symbols denote non-detections, plotted at one-half the reporting limit.

Erler & Kalinowski, Inc.

Benzene Concentrations Over Time in Groundwater Monitoring Wells

6601/6603 Shellmound Street Emeryville, California

> July 2012 EKI 950074.05 **Figure 5**

Table 5 Results of Trend Analysis Benzene Concentrations in Groundwater, 1989 - 2011

6601/6603 Shellmound Street, Emeryville, California

			Benzen	e (ug/L)				Standard	04 1 1	
Well	Number of Analyses	Sample Period	Min	Max		Kendail's Tau	Mann- Kendall S	Normal Transform of S (Z)	Standard Normal Percentile at P = 95%	Trend Interpretation ^(a)
MW-3	26	1989-2011	1.8	25		0.034	11	0.244	1.96	No Trend / Stable
MW-5	30	1989-2011	< 0.5	200	M	-0.533	-232	4.25	1.96	Decreasing
MW-7	28	1990-2011	< 1.0	240	24	-0.384	-145	2.88	1.96	Decreasing
	/ater ESL, / Industrial ^(b)			1,800				ē		

Notes

(b) From RWQCB (2008), Table E-1. Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion Concerns (volatile chemicals only).

⁽a) Trend interpretation is based on a Mann-Kendall test, using a two-tailed 95% confidence interval after USEPA (2009), and the "Kendall's Tau" statistic, a rank correlation coefficient that may be used to estimate the strength of a monotonic relationship between two variables, in this case, concentration and time (Helsel & Hirsch, 2002). A positive Tau indicates an increasing trend, and a negative Tau indicates a decreasing trend. A correlation is considered "strong" where the absolute value of Tau is 0.7 or more. For purposes of this analysis, Tau values between -0.35 and 0.35 (i.e., 50% of 0.7) are considered indeterminate. Helsel & Hirsch (2002) note that Tau can be applied to censored datasets, is resistant to outliers, and measures all monotonic correlations, linear and nonlinear.

Table 7 Results of Trend Analysis for Groundwater Data from Wells MW-5 and MW-7 (a) 6601 and 6603 Bay Street

Sybase, Inc. Emeryville, California (EKI 950074.03)

Statistical		Well	MW-5		Well MW-7				
Parameters Parameters	TPPH	Велгеле	Toluene	Total Xylenes	TPPH	Benzene		Total Xylenes	
n (b) S (c) Mann-Kendall Probability (d) Significance Level (f) Result (g)	18 14 0.313 0.05 No upward trend	26 -135 NA (e) 0.05 No upward trend	18 -18 NA (e) 0.05 No upward trend	18 21 0.227 0.05 No upward trend	18 -61 NA (e) 0.05 No upward trend	26 -96 NA (e) 0.05 No upward trend	18 -22 NA (e) 0.05 No upward trend	18 2 0.485 0.05 No upward trend	

- (a) The data from Table 1 were evaluated using the Mann-Kendall test. A value equal to half the detection limit was used for concentrations reported to be less than laboratory method detection limits. Because detection limit values were not available for data prior to 1992, only the data from 29 January 1992 to 16 June 1996 were used in the analyses for all compounds except benzene. All historical data for benzene were used because the benzene concentrations were above detection limits. A statistical evaluation of ethylbenzene concentrations was not performed because ethylbenzene concentrations were less than detection limits in all but one sample.
- (b) "n" is the number of sampling events.
- (c) "S" is the Mann-Kendall statistic calculated using the methodology described in Gilbert (1987).
- (d) Mann-Kendall probability is related to the values of S and n, and is obtained from Table A21 in Hollaender and Wolfe (1973).
- (e) A negative S value indicates that the data are clearly not increasing and a Mann-Kendall probability is not applicable ("NA").
- (f) A significance level of 0.05 is recommended by U.S. EPA (1994).
- (g) A negative S value or a Mann-Kendall probability greater than the significance level indicates that there is no upward trend in the data (Gilbert, 1987).

Abbreviations:

TPPH = Total Purgeable Petroleum Hydrocarbons quantified as gasoline



1 of 1

Go gle

Table 3

Summary of Surrounding Wells within 500 Feet of the Site
6601/6603 Shellmound Street, Emeryville, California

	Owner's Well					Total Depth	Screen Interval
Address	Number	State Well Number	Well Type	Installation	Abandonment		(ft bgs)
6707 Bay Street	MW-7	15/4W 15D1	Monitoring	1/1990	-	22	7 - 22
	MW-8	15/4W 15D2	Monitoring	1/1990	10	21.5	7 - 21.5
1650 65th Street	MW-1	15/4W 15E1	Monitoring	7/1987	1/1988	30	9 - 30
	MW-3	15/4W 15E6	Monitoring	11/1989	-	22	6.6 - 18
	MW-4	15/4W 15E7	Monitoring	11/1989	-	19	6.1 - 15.8
	MW-5	15/4W 15E8	Monitoring	11/1989	_	21.5	6.7 - 17.9
	MW-6	15/4W 15E11/18	Monitoring	3/1990		22.1	7.1 - 21.8
	MW-7	15/4W 15E12/19	Monitoring	3/1990	-	19	6.7 - 18.7
	EW-1	15/4W 15E13	Extraction	3/1990	-	30	8.3 - 28.9

Abbreviations:

[&]quot;ft bgs" = feet below ground surface

ATTACHMENT 4

Attachment 4 – Vapor Intrusion Evaluation and Data

	L	TCP VAPOI	R SPECIFIC	CRITERIA -	PETROLEU	М		
			Closure	Scenario	F B			
Exemption	: Active fuelin	ng station ex	empt from v	apor specific	criteria; A	ctive as of c	late:	
Scenario 4b	Exposure conti	on zone; olled throu	Site specific gh use of n	risk assessm	nent demonst asures or in	trates huma stitutional	n health is p	
		Evaluation	Criteria: S	hading indica	tes criteria m	et.		
Site Specif	ic Data	Scenario 1	Scenario 2	Scenario 3A	Scenario 3B	Scenario 3C	Scenario 4a	Scenario 4b
Unweathered LNAPL	LNAPL in soil and groundwater	LNAPL in gw	LNAPL in soil	No LNAPL	No LNAPL	No LNAPL	No criteria	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	~ 3 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	No criteria	≥ 5 feet
Depth to Shallowest Groundwater	4.44 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥ 5 feet	≥ 5 feet	≥ 5 feet
Total TPHg & TPHd in Soil in Bioattenuation Zone	900 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	No criteria	<100 mg/kg
Maximum Current Benzene Concentration in Groundwater	<1.0 µg/L	No criteria	No criteria	<100 µg/L	≥100 and <1,000 µg/L	<1,000 µg/L	No criteria	No criteria
Oxygen Data in Bioattenuation Zone	No oxygen data	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4%	No criteria	≥4% at bottom of zone
Soil Vapor Depth Beneath Foundation	Not Collected; (Sub-slab collected)	No criteria	No criteria	No criteria	No criteria	No criteria	5 feet	5 feet
Benzene Concentrations (µg/m³)	Historic Max: Not Analyzed Current Max: Not Analyzed	No criteria	No criteria	No criteria	No criteria	No criteria	Res: < 85; Com: < 280	Res: < 85K; Com: < 280K
Ethylbenzene Concentrations (µg/m³)	Historic Max: Not Analyzed Current Max: Not Analyzed	No criteria	No criteria	No criteria	No criteria	No criteria	Res: < 1,100; Com: < 3,600	Res: < 1,100K; Com: < 3,600K
Naphthalene Concentrations (μg/m³)	Historic Max: Not Analyzed Current Max: Not Analyzed	No criteria	No criteria	No criteria	No criteria	No criteria	Res: < 93; Com: < 310	Res: < 93K; Com: < 310K

Attachment 4 – Vapor Intrusion Evaluation and Data

LT	CP VAPOR SPECIFIC CRITERIA PETROLEUM (cont.)
	Vapor Intrusion to Indoor Air Analysis
Onsite	Due to the shallow depth to groundwater and the inability to install vapor wells to a depth of five feet below the foundations of the existing onsite building in accordance with the Low Threat Closure Policy, sub-slab vapor points were installed and sub-slab vapor samples were collected at the site. The highest onsite sub-slab vapor benzene concentration was 1.82 µg/m³, which is less than the calculated commercial / industrial sub-slab Environmental Screening Level (ESL) of 8.4 µg/m³. The calculated sub-slab ESL is derived by dividing the allowable indoor air ESL for a commercial / industrial facility by an attenuation factor of 0.05 (or multiplied by 20). The ESLs are promulgated by the San Francisco Bay Regional Water Quality Control Board (December 2013).
Offsite	Due to the shallow depth to groundwater and the inability to install vapor wells to a depth of five feet below the foundations of the existing onsite building as indicated by the Low Threat Closure Policy, sub-slab vapor points were installed and sub-slab vapor samples were also collected offsite at the downgradient building. Three rounds of sub-slab vapor samples were collected beneath the downgradient building. The highest downgradient sub-slab vapor benzene concentration was 5.21 µg/m³ which is less than the calculated commercial / industrial sub-slab ESL of 8.4 µg/m³. The calculated sub-slab ESL is derived by dividing the allowable indoor air ESL for a commercial / industrial facility by an attenuation factor of 0.05 (or multiplied by 20). The ESLs are promulgated by the San Francisco Bay Regional Water Quality Control Board (December 2013).

Table 1

Summary of Analytical Results for Sub-Slab Vapor Samples (a)

6601/6603 Shellmound Street, Emeryville, California (EKI 950074.05)

				V	OCs (ug/m³)		SA	ajor Gase:	s (% volum	ne)
Sample Name	Location / Building	Date	Benzene	Toluene	Ethyl benzene	Xylenes	TVH (C2-C10)	Methane	Oxygen	Carbon Dioxide	Nitrogen
SSVP6601-1	6601 Shellmound	12/23/2011	<1.6	5.84	<4.34	<4.34	_	<0.100%	18.4%	<0.100%	81.6%
SSVP6603-2 ^(b)	6603 Shellmound	12/23/2011	<1.6	<3.77	7.34	<4.34	_	<0.100%	19.4%	<0.100%	80.6%
		12/23/2011	1.82	<3.77	<4.34	<4.34	-	<0.100%	19.4%	<0.100%	80.6%
SSVP1650-3	1650) 658h St.	5/2/2012	<1.60	<3.77	<4.34	<4.34	<586	<0.100%	18.4%	0.452%	81.1%
		12/26/2014	<1.60	<3.77	<4.34	<4.34		_		_	-
	1650 65th St.	12/23/2011	5.21	6.07	<4.34	<4.34	-	<0.100%	19.4%	<0.100%	80.6%
SSVP1650-4 ^{[qd)}		5/2/2012	<1.60/ <1.60	<3.77 <i>1</i> <3.77	<4.34/ <4.34	<4.34/ <4.35		<0.100%/ <0.100%	17.5%/ 18.2%	<0.100%	82.4%/ 81.7%
		12/26/2014	<1.60// <1.60	<3.77/ <3.77	<4.34/ <4.34	<4.34/ <4.34	-	_	_		-
AMBIENT-20111223		12/23/2011	1.79	<3.77	<4.34	<4.34		_	_	_ ·	
AMBIENT-20120502	Outside: in alley	5/2/2012	<1.60	<3.77	<4.34	<4.34	<586	_		_	
AMBIENT-20141226		12/26/2014	<0.799	<1.86	<2.17	<2.17	-		_	_	_
2013 Commercial/Inc Substab Vapor Scree		(9	8.4	26,000	98	8,800	50,000	n/a	n/a	n/a	n/a
2013 Residential Substab Vapor Scree	2013 Residential Subslab Vapor Screening Levels ⁽¹⁾			6,200	19	2,000	12,000	n/a	n/a	n/a	n/a

Abbreviations:

< X = Analyte not detected above the indicated laboratory reporting limit of X ug/L.

BTEX = benzene, toluene, ethylbenzene, xylenes

n/a = Not applicable

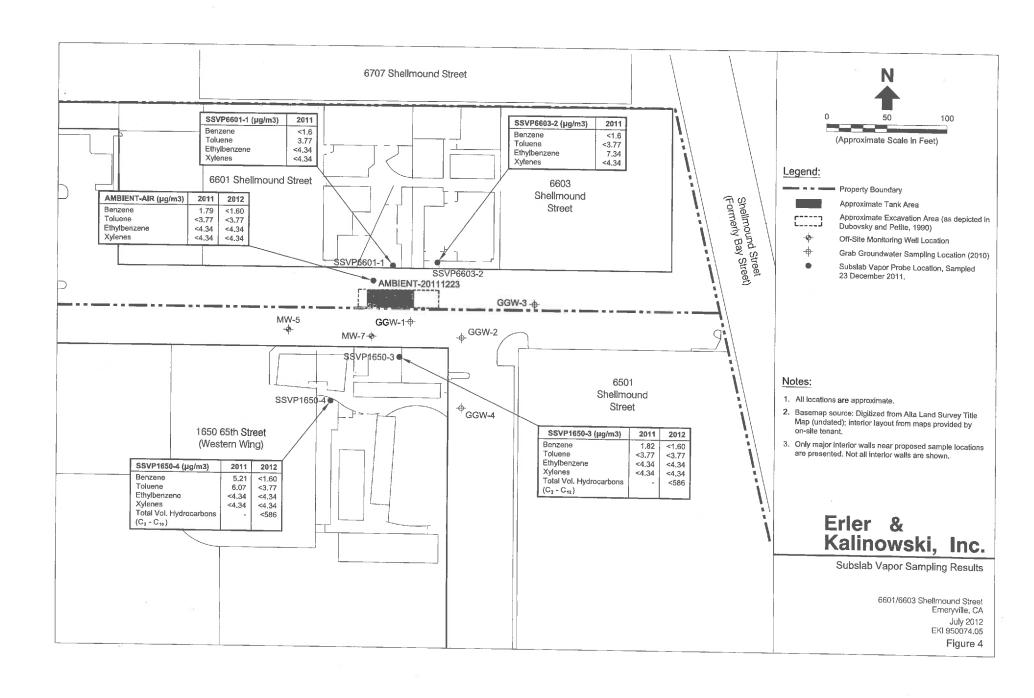
- = Sample not analyzed for the indicated compound

ug/m3 = Micrograms per cubic meter

ppmv = Parts per million.

Notes:

- (a) Samples were collected in stainless-steel batch-certified Summa canisters and analyzed by KPrime, Inc. of Santa Rosa, California, for BTEX compounds using EPA Method TO-15. Samples collected in 2011 and 2012 also were analyzed for major gases using ASTM D 1946.
- (b) Sample SSVP6603-2 (collected 12/23/2011) contained a 1,1,1,2-tetrafluoroethane ("TeFA") concentration of 16.6 parts per million volumetric ("ppmv"). TeFA was analyzed by EPA Method TO-3, and was used as a leak-detection compound during sampling. Analytical results for the shroud outside the sampling apparatus indicate a TeFA concentration of approximately 10,400 ppmv. The 16.6 ppmv concentration detected in sample SSVP6603-2 thus indicates a minor leak in that particular vapor sample, resulting in a very small potential sample dilution of approximately 0.16%.
- (c) Sample SSVP1650-4 (collected 05/02/2012) contained TeFA concentration of 10.0 ppmv. TeFA was analyzed by EPA Method TO-3. Analytical results for the shroud outside the sampling apparatus indicate a TeFA concentration of approximately 14,600 ppmv. The 10 ppmv concentration detected in sample SSVP1650-4 thus indicates a very minor leak in that particular vapor sample, resulting in a negligable potential sample dilution of approximately 0.066%.
- (d) For the 2012 and 2014 sampling events, blind duplicate samples were collected from this location and subjected to the same suite of analytical tests as the primary sample.
- (a) San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels ("ESLs"), Table E-2, Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion (volatile chemicals only), Commercial/Industrial Land Use. California Regional Water Quality Control Board San Francisco Bay Region ("RWQCB"), Interim Final, December 2013.
- (f) In accordance with the California EPA Department of Toxic Substances Control Vapor Intrusion Guidance (October 2011), substab soil vapor screening levels are calculated as the indoor sir screening level (e.g., ESL) divided by an attenuation factor of 0.05 (i.e., multiplied by 20).
- (g) Sam Francisco Bay Regional Water Quality Control Board Environmental Screening Levels ("ESLs"), Table E-3. Ambient and Indoor Air Screening Levels (volatile chemicals only), Commercial Industrial Land Use. RWQCB, Interim Final, December 2013. These values are not applicable to substab sampling results, but are used to calculate sub-stab soil vapor screening levels [see Note (f)]. ESL for TPH-gasoline listed as surrogate for TVH (C2-C10).



ATTACHMENT 5

Attachment 5 - Direct Contact Evaluation and Data

LTCP DIRECT CONTACT AND OUTDOOR AIR EXPSURE CRITERIA

Closure Scenario

___ Exemption (no petroleum hydrocarbons in upper 10 feet), _X Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below, __ Site-specific risk assessment, __ A determination has been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health, __ A determination has 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, __ This case should be closed in spite of not meeting the direct contact and outdoor air specific media criteria.

specific media	criteria.	¥				
		Evaluation C	riteria: Shading in	ndicates criteria	a met.	
Are maximum o	concentrations les	ss than those in	Table 1 below?	Yes - Comm	ercial / Industrial o	only
***		Res	idential	Commerc	cial/Industrial	Utility Worker
Cons	tituent	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	< 0.0058	0.012	< 0.0058	0.012	0.012
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	< 0.058	<1.5	< 0.058	<1.5	<1.5
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene	<25	<1.9	<25	<1.9	<25
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs	0.207	0.147	0.207	0.147	0.207
LTCP Criteria	PAHs	≤0.063	NA	≤0.68	NA	≤4.5
		Direct Co	ntact and Outdo	or Air Analysi	s	
Ons	site	are present in subject site mander. It does no Under the curr	the subsurface. It eets the commerce of meet the resider rent land use, mo coundaries resultir	Under the curre cial / industrial cial land use co ost of the site	ent land use scen criteria for Direct riteria. is paved with mir	Il data indicates PAHs ario (commercial), the Contact and Outdoor nor landscaped areas ontact exposure under
Offs	site	was placed on storage tank (presence of a wide contamir operations in the As with the suparcel meets the does not meet. Under the current laresidual contarts	the offsite parcel UST) case (Emer former UST at the nation that has listed the vicinity as land bject site, under the commercial / in the residential land rent land use, more oundaries resulting use. Excavamination is curren	at the time of y Bay Plaza, hat site, and poeen stated to was created ne current land dustrial criterial duse criteria. It of the site g in a low potently managed was plaze of the site g in a low potently managed was plaze.	the closure of the RO0000440; T060 prior documentation to be related to along the San Follows scenario (con a for Direct Contains paved with mirential for direct coruction activities in RO000000000000000000000000000000000000	g land use restriction of former underground (20100511) due to the control of sporadic parcelprevious land filling rancisco Bay margin. It commercial), the offsite of and Outdoor Air. It cor landscaped areas intact exposure under in areas of potential striction, and requires

construction activities.

planning and implementation of appropriate health and safety procedures by the responsible party, or current property owner, prior to and during excavation and

TABLE A-1 SUMMARY OF ANALYTICAL RESULTS

	T		SOIL	EN NIMES EL TRADE	IND WAVES		T		
SAMPLE I.D./ DATE	SAMPLE LOCATION	SAMPLE DEPTH, FT	BREZEER 6601 AND	TOLUENE 6603 BAY	RIGHT.	TOTAL	TPR AB DIESEL	TPH as Gasolder	OIL E GREASE
#1 8/23/89	Tank 1-E Bottom	12.5 Soil	ND < 2 ppm	ND < 2	ND < 2	ND < 2	2,400 ppm	n/a	n/a
#2 8/23/89	Tank 1-W Bottom	12.5 Soil	ND < 2 ppm	ND < 2	ND < 2	ND < 2	2,400 ppm	n/a	n/a
Tank Pit 9/12/89	Tank 1 Pit	13 Water	8 ppb	ND < 0.5	ND < 0.5	6	n/a	1,400 ppb	n/e
Tank Pit N. 9/12/89	Tank 1 N Wall 8 E 1/4	7.5 Soil	ND < 0.02 ppm	ND < 0.02	ND < 0.02	ND < 0.02	1,400 ppm	, n/a	na/
Tank Pit S. 9/12/89	Tank 1 E Wall 6 Middle	7.5 Soil	ND < 0.02 ppm	ND < 0.02	ND < 0.02	ND < 0.02	1,500 ppm	n/a	n/a
Tank Pit E. 9/12/89	Tank 1 S Wall 0 E 1/4	7.5 Soil	ND < 0.02 ppm	ND < 0.02	ND < 0.02	ND < 0.02	300 ppm	n/a	n/a
001 10/10/89	Tank 1 N Wall 6 E 1/4	7.5 Soil	πja	n/a	n/a	n/a	170 ppa	n/a	2,000 ppa
002 10/10/89	Tank 1 P Wall & Middle	7.5 Soil	n/s	n/a	n/a	n/a	2,300 ppm	n/a	540 ppm
003	Tank 1 S Wall 8 E 1/4	7.5 Soil	p/a	n/a	n/a	n/a	2,700 ppm	n/a	3,400 ppm
001 10/10/89	Tank 2 S Wall	7.5 Soil	0.180 ppm	0.007	ND <0.005	0.013	n/a	ND < 1 ppm	n/a
002 10/10/89	Tank 3 W Wall	7.5 Soil	0.640 ppm	ND <0.010	ND <0.010	21	n/a	2.5 ppm	n/a
003 10/10/89	Tank Z N Wall	7.5 Soil	0.760 ppm	1.200	0.480	1.9	n/a	270 ppm	n/a
004 10/10/89	Tank 3 Pit	8 Water	4 00 ppb	180	38	290	n/a	6,300 ppb	n/a
#1 01/25/90	Tank 2 Pit	4 Water	ND < 5	ND < 5	HD < 5	ND < 5	520 ppb	n/a	n/e

ANALYTICAL TESTING METHODS:

Modified Method 8020

TPH as Diesel: GCFID following either EPA Method 3510 or 3550

TPH as Gasoline: GCFID following EPA Method 3550

Oil and Grease: Standard Method 503E

TABLE 3.1

SOIL SAMPLING ANALYTICAL RESULTS Groundwater Monitoring Wells MW-3, MW-4, and MW-5 1650 65th Street Property 14, 15, and 16 November 1989

Contaminant	MW-3 (4.5 ft.)	MW-4 (5.5 ft.)	MW-5 (5.5 ft.)	
Organics	V 188			
Gasoline (mg/Kg)	<10	<10	<10	
Benzene (µg/Kg)	<5	<5	<5	
Toluene (µg/Kg)	<5	10	<5	
Total Xylenes (μg/Kg)	<5	10	< 5	
Ethylbenzene (µg/Kg)	<5	<5	<5	
Inorganics				
Lead (mg/Kg)	NA	NA	25	

NA = Not Analyzed

all three wells were analyzed by modified EPA Method 8015 for TPH (as gasoline) and by EPA Method 8020 for BTXE. The soil sample from Well MW-5 was also analyzed by EPA Method 8010 for purgeable halocarbons and by EPA Method 7420/7421 for lead. Appendix B contains the soil sampling analytical results and chain-of-custody records.

Gasoline was not detected (<10 mg/Kg) in the three soil samples. Low concentrations of toluene (10 μ g/Kg) and total xylenes (10 μ g/Kg) were detected in the soil sample collected from Well MW-4. A concentration of 25 mg/Kg lead was detected in the soil sample collected from Well MW-5. This concentration of lead is probably indicative of the composition of the local fill materials and may not represent contamination associated with leakage from a UFST.

GROUNDWATER SAMPLING AND ANALYSIS

On 20 and 21 November 1989 the quarterly groundwater monitoring program was initiated for the newly installed wells (MW-2, MW-3, MW-4, and MW-5). Well MW-2 was previously sampled on 2 and 16 October 1989 (Reference 4). The quarterly

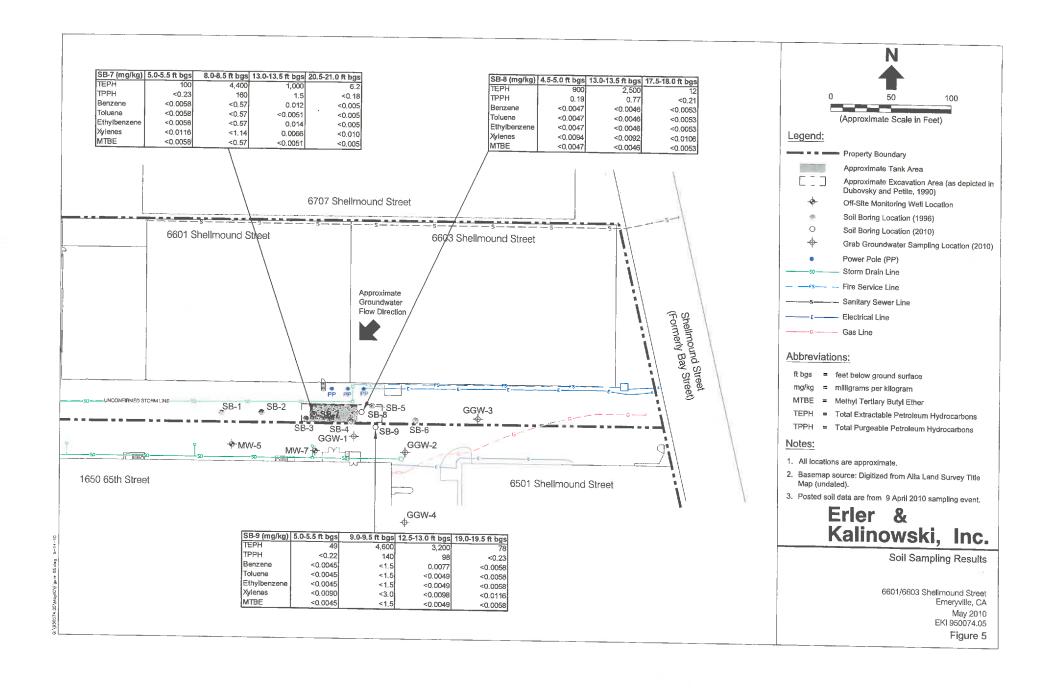


Table 4 Summary of Soil Analytical Data from the Spring 2010 Investigation 6601/6603 Shellmound Street, Emeryville, California

			Comp	oleum oounds g) (a,b)		Volat	ile Organi	c Compoun	ıds (mg/ks	r) (a.c)						DAIIa /m	a/las\ (=				
Sample Location	Sample Depth (feet bgs)	Collection Date	TEPH	ТРРН	Benzene	Toluene	Ethylbenzene	Xylenes, m- & p-	Xylene, o-	1,2-Dibromoethane	,2-Dichloroethane	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	g/kg) (a,c	Fluoranthene	Fluorene	Phenanthrene	rene
SB-7	5.0 - 5.5	4/9/2010	100	<0.23	< 0.0058	< 0.0058	< 0.0058	< 0.0058	< 0.0058	<0.0058	< 0.0058	<0.092	<0.092	< 0.092	<0.092	<0.092	<0.092	<0.092			<u>E</u>
1	8.0 - 8.5	4/9/2010	4,400	160	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	< 0.092	< 0.092	<0.092
	13.0 - 13.5	4/9/2010	1,000	1.5	0.012	< 0.0051	0.014	0.0066	< 0.0051	< 0.0051	< 0.0051	< 0.08	< 0.08	< 0.08	< 0.08	<0.08	<0.08		<1.9	<1.9	<1.9
an a	20.5 - 21.0	4/9/2010	6.2	< 0.18	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.078		< 0.078	<0.078	< 0.078	<0.08	<0.08	0.16	0.24	0.08
SB-8	4.5 - 5.0	4/9/2010	900	0.19	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	0.099	0.15	0.16	0.23	0.076	0.078	<0.078	< 0.078	<0.078	< 0.078
	13.0 - 13.5	4/9/2010	2,500	0.77	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.08	< 0.08	0.13	0.16	<0.08	0.18	0.41	< 0.075	0.26	0.39
an a	17.5 - 18.0	4/9/2010	12	< 0.21	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.0053	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	0 38	0.14	0.49	0.46
SB-9	5.0 - 5.5	4/9/2010	49	< 0.22	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.076	< 0.076	< 0.076	< 0.083	< 0.083	<0.083	<0.083	< 0.083	<0.083	< 0.083
1 1	9.0 - 9.5	4/9/2010	4,600	140	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	< 0.77	<0.77	<0.77	<0.070	<0.076	<0.076	<0.076	<0.076	< 0.076	< 0.076
	12.5 - 13.0	4/9/2010	3,200	98	0.0077	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	<0.4	<0.4	<0.4	<0.77	<0.4		1.6	0.9	2.8	2.6
	19.0 - 19.5	4/9/2010	78	<0.23	<0.0058	< 0.0058	<0.0058	< 0.0058	<0.0058	< 0.0058	< 0.0058	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	<0.4	0.49 <0.086	<0.4	1.1	0.65
ESL for C/I o	direct exposure	(shallow soil)	450	450	0 27	210	5	10	0	0.044	0.48	26,000	13 -	0.13	1.3					<0.086	<0.086
ESL for C/I c	lirect exposure	(deep soil)	4,200	4,200	12	650	210	42	0	1.7	21	100,000	15	1.5		1.3	210	4,400	2,800	3,300	6,600
		tion of drinking									21	100,000	13	1.3	1.5	15	2,400	14,000	12,000	11,000	21,000
ESI for group	ndwater protect	ion of	83	83	0.044	2.9	3.3	2.:	3	0.00033	0.00045	2.8	12	130	46	2.7	23	60	8.9	11	85
	water resource		180	180	2	9.3	4.7	11		1	1.8	2.8	12	130	46	37	23	60	8.9	11	85

Abbreviations:

"C/I" = commercial/industrial land use

"ESL" = Environmental Screening Level (see Reference 1)

"feet bgs" = feet below ground surface

"mg/kg" = milligrams per kilogram

"PAHs" = polycyclic aromatic hydrocarbons

"TEPH" = total extractable petroleum hydrocarbons, quantified as diesel

"TPPH" = total purgeable petroleum hydrocarbons, quantified as gasoline

"VOCs" = volatile organic compounds

Notes:

- (a) Soil concentrations are reported on a dry-weight basis. Concentrations exceeding at least one of the screening critera are shown in bold text.
- (b) TEPH and TPPH were analyzed using EPA Method 8015M.
- (c) VOCs were analyzed using EPA Method 8260B. This table only includes detected analytes.
- (d) PAHs were analyzed using EPA Method 8270C. This table only includes detected analytes

References:

1. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, California Regional Water Quality Control Board, San Francisco Bay Region, revised May 2008.

Table 3 Soil Sample Analytical Results for Naphthalene

6601/6603 Shellmound St., Emeryville, California (EKI 950074.05)

Location	Sample ID	Sample Date	Depth (ft bgs)	Naphthalene (mg/kg) ^(a)			
SB-3	SB3-5	6/15/1996	4.5-5	<5.0			
S,B-4	SB4-5	6/15/1996	4.5-5	<25			
	SB-7-5-5.5	4/9/2010	5-5.5	<0.092			
SB-7	SB-7-8-8.5	4/9/2010	8-8.5	<1.9			
35-7	SB-7-13-13.5	4/9/2010	13-13.5	<0.080			
	SB-7-20.5-21	4/9/2010	20.5-21	<0.078			
	SB-8-4.5-5	4/9/2010	4.5-5	<0.075			
SB-8	SB-8-13-13.5	4/9/2010	13-13.5	<0.080			
	SB-8-17.5-18	4/9/2010	17.5-18	<0.083			
	SB-9-5-5.5	4/9/2010	5-5.5	<0.076			
SB-9	SB-9-9-9.5	4/9/2010	9-9.5	<0.77			
00-9	SB-9-12.5-13	4/9/2010	12.5-13	<0.04			
	SB-9-19-19.5	4/9/2010	19-19.5	<0.086			
No Significant	45						
	No Significant Risk Threshold Concentration, LTCP Residential Land Use, (0-10 feet bgs) ^(b)						

Abbreviations:

<5.0: compound not detected at or above the laboratory reporting limit of 5.0 mg/kg

ESL: Environmental Screening Level (RWQCB, December 2013)

ft bgs: feet below ground surface LTCP: Low-Threat Closure Policy mg/kg: milligrams per kilogram

RWQCB: California Regional Water Quality Control Board, San Francisco Bay Region

SWRCB: State Water Resources Control Board

Notes:

(a) Samples collected in 2010 were analyzed by Curtis & Tompkins, Ltd., of Berkeley, California using EPA method 8270C. Sample collected in 1996 was analyzed by Sequoia Analytical of Redwood City, California using EPA method 8100.

(b) From SWRC8 (2012), Low-Threat Underground Storage Tank Case Closure Policy (Table 1). The listed threshold concentration (45 mg/kg) addresses commercial/industrial land-use exposure pathways through direct contact as well as through volatilization to outdoor air. The corresponding residential land-use threshold concentration is 9.7 mg/kg.

(c) Commercial/Industrial Shellow soil Environmental Screening Level ("ESL") from RWQCB (2013) - Table A-2. Shallow Soil Screening Levels (<3m bgs), Commercial/Industrial Land Use, (groundwater is a current or potential drinking water resource)

References

RWQCB, 2013. San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels. Interim Final, December 2013.

SWRCB, 2012. Low-Threat Underground Storage Tank Case Closure Policy; Table 1- Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health. California State Water Resources Control Board, 1 May 2012.

Table 5
Summary of B(a)P Equivalents for Carcinogenic PAHs Detected in Soil Samples (a)
6601/6603 Shellmound Street, Emeryville, California
(EKI 950074.05)

Sample	Sample	Analyte	Results	Potency Equivalency	B(a)P	Total B(a)P Equivalents
Sample Location	Depth (ft bgs)	Analyte	(mg/kg)	Factor	Equivalent Concentration	(mg/kg)
SB-7	5 - 5.5	Benz(a)anthracene	< 0.092	0.1	0	G
		Benzo(a)pyrene	< 0.092	1	ő	
1		Benzo(b)fluoranthene	< 0.092	0.1	0	
		Benzo(k)fluoranthene	< 0.092	0.1	0	
		Chrysene	< 0.092	0.01	0	
		Dibenz(a,h)anthracene	< 0.092	0.34	0	
		Indeno(1,2,3-cd)pyrene	< 0.092	0.1	0	
1	8 - 8.5	Benz(a)anthracene	< 1.9	0.1	0	0
		Benzo(a)pyrene	< 1.9	1	Q	
i i		Benzo(b)fluoranthene	< 1.9	0.1	0	
		Benzo(k)fluoranthene	< 1.9	0.1	0	
		Chrysene	< 1.9	0.01	0	
		Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene	< 1.9 < 1.9	0,34 0.1	0	
	13 - 13.5	Benz(a)anthracene	< 0.08	0.1	0	0
[10 - 10.0	Benzo(a)pyrene	< 0.08	1	ő	Ü
		Benzo(b)fluoranthene	< 0.08	0.1	ő	
		Benzo(k)fluoranthene	< 0.08	0.1	ō	
		Chrysene	< 0.08	0.01	0	
		Dibenz(a,h)anthracene	< 0.08	0.34	0	
		Indeno(1,2,3-cd)pyrene	< 0.08	0.1	0	
SB-8	4.5 - 5	Benz(a)anthracene	0.15	0.1	0.015	0.207
		Benzo(a)pyrene	0.16	1	0.16	
		Benzo(b)fluoranthene	0.23	0.1	0.023	
		Benzo(k)fluoranthene	0.076	0.1	0.0076	
	ĺ	Chrysene	0.18	0.01	0.0018	
		Dibenz(a,h)anthracene	< 0.075	0.34	0	
Į.		Indeno(1,2,3-cd)pyrene	< 0.075	0.1	0	
	13 - 13.5	Benz(a)anthracene	< 0.08	0.1	0	0.147
		Benzo(a)pyrene	0.13	1	0.13 0.016	
	1	Benzo(b)fluoranthene Benzo(k)fluoranthene	0.16 < 0.08	0.1 0.1	0.018	ĺ
	ļ	Chrysene Chrysene	0.11	0.1	0.0011	
		Dibenz(a,h)anthracene	< 0.08	0.34	0.0011	
		Indeno(1,2,3-cd)pyrene	< 0.08	0.1	ŏ	
	17.5 - 18	Benz(a)anthracene	< 0.083	0.1	0	0
		Benzo(a)pyrene	< 0.083	1	Ō	
		Benzo(b)fluoranthene	< 0.083	0.1	0	
	ĺ	Benzo(k)fluoranthene	< 0.083	0.1	0	
.]		Chrysene	< 0.083	0.01	0	
į		Dibenz(a,h)anthracene	< 0.083	0.34	0	1
i		Indeno(1,2,3-cd)pyrene	< 0.083	0.1	0	

1 of 2 April 2015

Table 5
Summary of B(a)P Equivalents for Carcinogenic PAHs Detected in Soil Samples^(a)

6601/6603 Shellmound Street, Emeryville, California (EKI 950074.05)

Sample Location	Sample Depth (ft bgs)	Analyte	Results (mg/kg)	Potency Equivalency Factor	B(a)P Equivalent Concentration	Total B(a)P Equivalents (b,c) (mg/kg)
SB-9	5 - 5.5	Benz(a)anthracene	< 0.076	0.1	0	0
		Benzo(a)pyrene	< 0.076	1	0	
		Benzo(b)fluoranthene	< 0.076	0.1	0	
		Benzo(k)fluoranthene	< 0.076	0.1	0	
		Chrysene	< 0.076	0.01	0	
1 1		Dibenz(a,h)anthracene	< 0.076	0.34	0	
		Indeno(1,2,3-cd)pyrene	< 0.076	0.1	0	
	9 - 9.5	Benz(a)anthracene	< 0.77	0.1	0	. 0
!		Benzo(a)pyrene	< 0.77	1	0	
	1	Benzo(b)fluoranthene	< 0.77	0.1	0	
		Benzo(k)fluoranthene	< 0.77	0.1	0	
i i		Chrysene	< 0.77	0.01	0	
	j	Dibenz(a,h)anthracene	< 0.77	0.34	0	
		Indeno(1,2,3-cd)pyrene	< 0.77	0.1	0	

Notes

(a) \overline{B} (a)P Equivalents were calculated for the seven carcinogenic PAHs in accordance with the 2012 California Office of Health Hazard Assessment ("OEHHA") guidance document *Technical Justification for Soil Screening Levels for Direct Contact and Outdoor Air Exposure Pathways (Final 03-15-2012*), p.4.

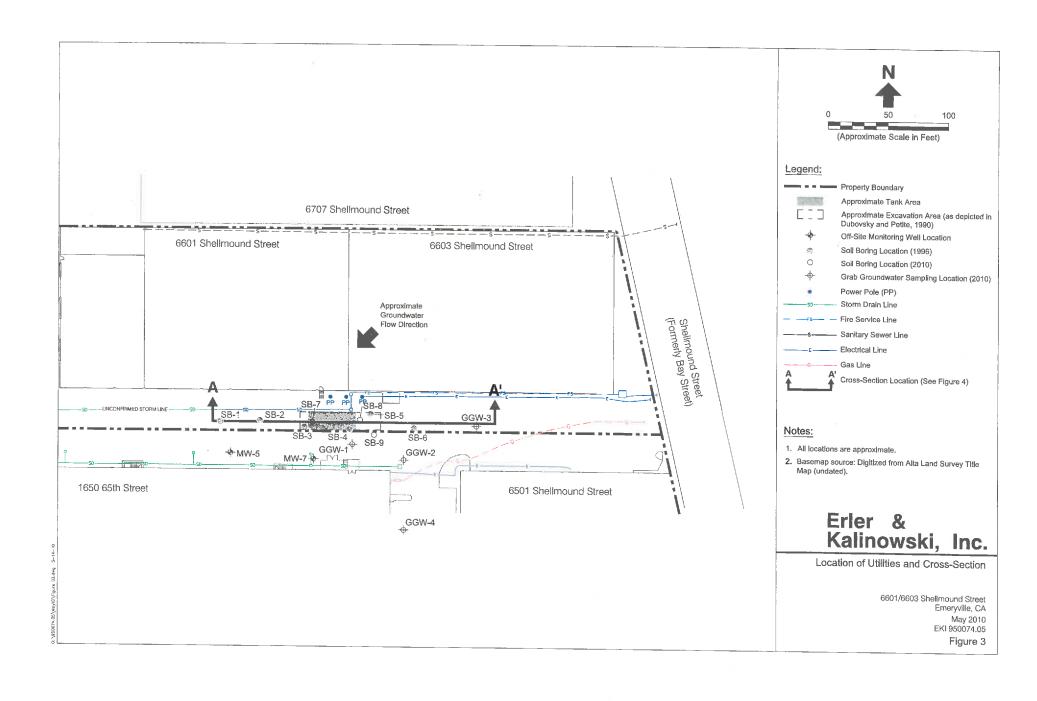
(b) The 2012 SWRCB document Low-Threat Underground Storage Tank Case Closure Policy (SWRCB, 2012) lists maximum total B(a)P equivalent soil concentrations of 0.68 mg/kg (0-5 feet below ground surface, commercial / industrial worker) and 4.5 mg/kg (0-10 ft bgs, utility worker). Site soil PAH (B(a)P equivalent) concentrations are well below these levels, based on the available data (above). Refer to SWRCB (2012), Table 1 - Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health.

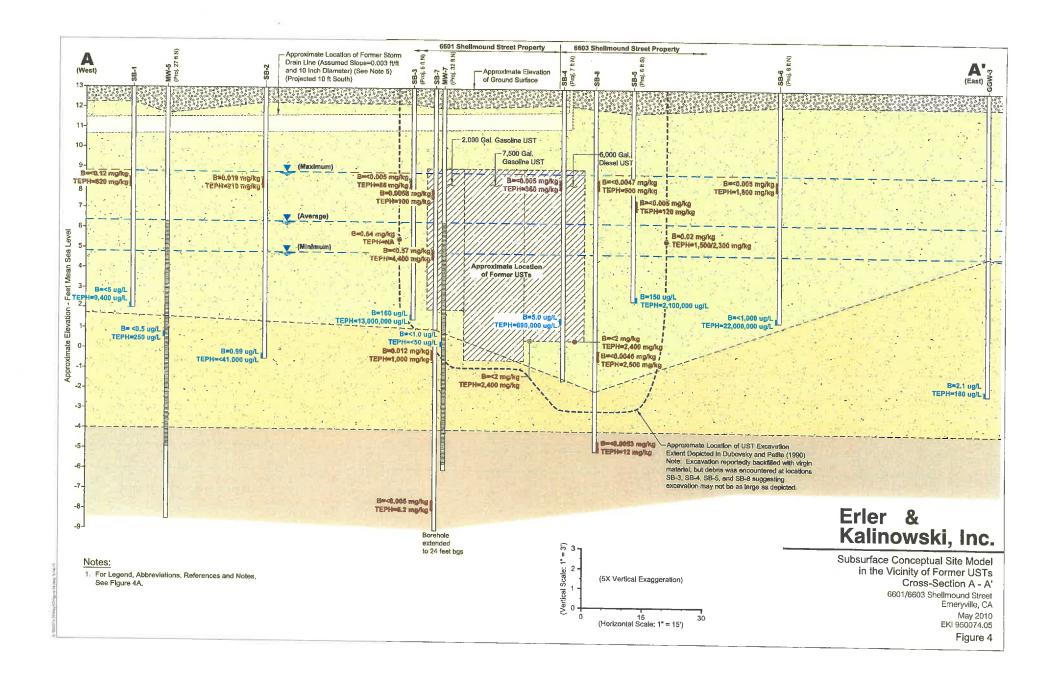
(c) Maximum total B(a)P equivalent soil concentrations are listed in SWRCB (2012) as 0.063 mg/kg for residential land use (0-5 feet below ground surface). Site soil PAH concentrations (B(a)P equivalents) exceed this residential land-use threshold in one location (SB-8), based on the available data, listed above. Refer to SWRCB (2012), Table 1 - Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health.

<u>Abbreviations</u>

B(a)P = Benzo(a)pyrene

PAHs = Polycyclic Aromatic Hydrocarbons





Approximate Location of Soil Confirmation sample

Abbreviations:

= not detected above stated reporting limit

В = benzene

ft = feet Gal. = gallon

MSL

ug/L = micrograms per liter NA = not analyzed TEPH = total extractable petroleum hydrocarbons

mg/kg

= mean sea level **USTs** = underground storage tanks

References:

- a) Dubovsky and Petite, 1990. Environmental Report, 6601 and 6603 Bay Street, Emeryville, California, William Dubovsky Environmental and D. Larry Petite, July 1990.
- b) Engineering-Science, Inc., 1989. Groundwater Contamination Investigation, 1650 65th Street Property. Emeryville, California, Engineering-Science, Inc., November 1989.
- c) Engineering-Science, Inc., 1990. Evaluation of Groundwater Alternatives and Remedial Action Plan, 65th Street Property, Emeryville, California, Engineering-Science, Inc., November 1990.
- d) EKI, 1996. Results of Soil and Groundwater Investigation at 6601 and 6603 Bay Street, Emeryville, California. Erler & Kalinowski, Inc., 23 August 1996.

= milligrams per kilogram

e) EKI, 1997. Closure Report, Three Former Underground Storage Tanks at 6601 and 6603 Bay Street, Emeryville, California, Erler & Kalinowski, Inc., 18 August 1997.

Notes:

- 1. All locations are approximate.
- 2. The data displayed at each location is projected up to approximately 32 feet from either side of the cross-section.
- 3. Data presented on this figure for soil and groundwater are from Dubovsky and Petite, 1990, EKI, 1996, EKI, 1997, and this investigation (2010).
- 4. Geologic information presented on this figure is from Engineering-Science, Inc., 1989 and 1990, EKI, 1996, and this investigation (2010).
- 5. According to construction drawings from 1994, plans were in place to remove, backfill, and compact this storm drain line during improvements and seismic upgrades at the site.

Erler & Kalinowski, Inc.

Legend, Abbreviations. References and Notes

6601/6603 Shellmound Street Emeryville, CA May 2010 EKI 950074.05 Figure 4A

Table 4 Concentrations of Petroleum Hydrocarbon-Related Compounds in Soil Samples (a) 6601 and 6603 Bay Street

Sybase, Inc. Emeryville, California (EKI 950074.03)

Sample ID (b)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xyleпes (mg/kg)	MTBE (mg/kg)	PAHs (mg/kg)
SB-1-5 SB-2-5	<0.12 0.019	<0.12 <0.005	0.29	2.8	<0.62 <0.025	NA NA
SB-3-5 SB-4-5	<0.005 <0.005	<0.005	<0.005	<0.005	<0.025	ND
SB-5-6	<0.005	0.0062	<0.005	0.015	<0.025 <0.025	ND NA
\$B-6-5	<0.005	<0.005	<0.005	0.026	<0.025	NA
PRG (c)	3.2	2,800	690	990	3,400	

Notes:

- (a) Soll samples collected by Erler & Kalinowski, Inc. on 15 June 1996.
- (b) Sampling locations corresponding to Sample ID are shown in Figure 2.
- (c) U.S. EPA Preliminary Remediation Goals ("PRGs") for Industrial soils (U.S. EPA, 1 September 1995).

Abbreviations:

MTBE = Methyl tertiary butyl ether

PAHs = Polycyclic Aromatic Hydrocarbons

NA = Not analyzed

ND = No compounds detected above laboratory method detection limits (See Appendix E for laboratory data sheets

Table 2

Summary of Soil and Groundwater Sampling Depths and Analyses (a) 6601 and 6603 Bay Street

Sybase, Inc. Emeryville, California (EKI 950074.03)

Sample ID (b)	Sample Location	Sample Depth (feet bgs) (c)	TPPH as gasoline / BTEX & MTBE (EPA 8015 and 8020)	TEPH as diesel (EPA 8015)	TEPH and Fuel Fingerprint (d)	PAHs (EPA Method 8100)
Soil						
SB-1-5	SB-1	4.5-5	x	х		
SB-2-5	SB-2	4,5-5	x	x		
SB-3-5	SB-3	4.5-5	х	х		×
SB-4-5	SB-4	4.5-5	х	x		x
SB-5-6	SB-5	5.5-6	×	'X'		1
SB-6-5	\$B-6	4.5-5	x	×		
Groundwater		=				
Travel Blank	-	.	x			
SB-1	SB-1	11.0	х	х		
SB-2	SB-2	13.5	х	x		
SB-3	SB-3	11.5	х		х	
SB-4	SB-4	11.5	х	х		20
SB-5	\$B-5	10.5	х		х	
SB-6	SB-6	11.5	х		Х	x
MW-5	MW-5	18.0 (e)	х	x		
MW-7	MW-7	6.7-18.7 (e)	X	×		

Notes:

- (a) Soil and grab groundwater samples collected by Erler & Kalinowski, inc. on 15 June 1996 and 16 June 1996.
- (b) See Figure 2 for sampling locations corresponding to Sample ID.
- (c) "feet bgs" denotes feet below ground surface.
 Grab groundwater samples were collected through the hollow stem augers in borings drilled to the depth Indicated.
- (d) For a fuel fingerprint analysis, the laboratory attempts to match the sample chromatogram with that of various hydrocarbon standards. The analysis includes the entire extractable range, i.e. from carbon chain lengths C9 to C40.
- (e) Sample depth for the monitoring wells are indicated by the screened interval of the well. For well MW-5, only the bottom depth of the screened interval is known.

Abbreviations:

TPPH = Total Purgeable Petroleum Hydrocarbons

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

MTBE = Methyl tertiary butyl ether

TEPH = Total Extractable Petroleum Hydrocarbons

PAHs = Polycyclic Aromatic Hydrocarbons

Table 3 Total Petroleum Hydrocarbon Concentrations in Soil Samples (a) 6601 and 6603 Bay Street Sybase, Inc. Emeryville, California (EKI 950074.03)

		Total Purgeable Petroleur	n Hydrocarbons		Total Extractable Petroleur	n Hydrogerhana
Sample ID (b)	Conc. as gas (c) (mg/kg)	Laboratory Description of Chromatogram Pattern	Additional Comments (d)	Conc. as diesel (e) (mg/kg)	Laboratory Description of Chromatogram Pattern	Additional Comments (c)
SB-1-5	200	Unidentifiable pattern of hydrocarbons in C8-C12 range.	Mound centered at 17 min. (not observed in other soil samples).	820	Unidentifiable pattern of hydrocarbons in C9-C24 range.	Mound in less than C12 range (no observed in other soil samples). Mound centered at C28.
SB-2-5	1.1	Pattern characteristic of weathered gasoline in C8-C12 range.	Mound centered at 23 min.	210	Unidentifiable pattern of hydrocarbons in C9-C24 range.	Mound centered at C30.
SB-3-5	<1.0	Not detected.	Mound centered at 23 min.	86	Unidentifiable pattern of hydrocarbons in C9-C24 range.	Mound centered at C30,
SB-4-5	4.2	Unidentifiable pattern of hydrocarbons greater than C9.	Mound centered at 23 min.	360	Unidentifiable pattern of hydrocarbons in C10-C24 range.	Mound centered at C30.
SB-5-6	7.3	Unidentifiable pattern of hydrocarbons greater than C8.	Mound centered at 23 min.	120	Unidentifiable pattern of hydrocarbons in C9-C24 range,	Some small peaks in less than Cr range. Mound centered at C30.
SB-6-5	2.5	Unidentifiable pattern of hydrocarbons in C8-C12 range.	Mound centered at 23 min. Also several peaks centered at 17 min.	1,800	Unidentifiable pattern of hydrocarbons in C9-C40 range.	Very different pattern from other s samples. Discrete peaks at C14, C17, C20, C24, and C28.

Notes:

- (a) Soil samples collected by Erler & Kalinowski, Inc. on 15 June 1996.
- (b) Sampling locations corresponding to Sample ID are shown in Figure 3.
- (c) Concentration quantified as gasoline (includes C6 to C12 compounds).
- (d) Appendix G contains chromatograms from laboratory analysis of soil samples and, for comparison, petroleum hydrocarbon and n-alkane standards.
- (e) Concentration quantified as diesel (includes C9 to C24 compounds).

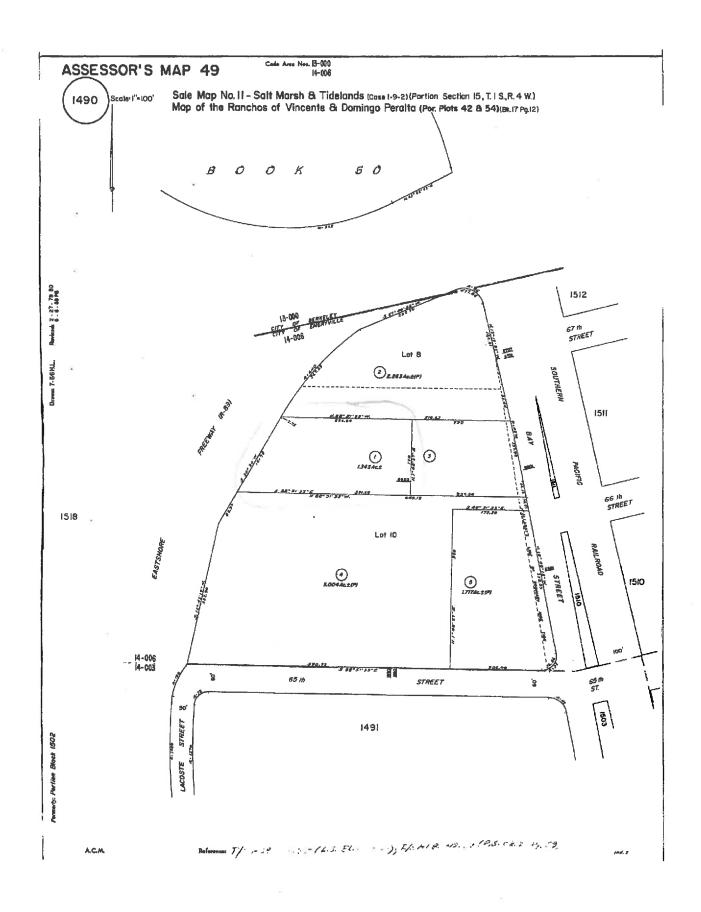
Table 5 Total Petroleum Hydrocarbon Concentrations in Groundwater Samples (a) 6601 and 6603 Bay Street Sybase, Inc. Emeryville, California (EKI 950074.03)

Sample	Conc. as	Total Purgeable Petroleun	Hydrocarbons		Total Extractable Petroleum	Hydrocarbons
ID (b)	gas (c)	Laboratory Description of Chromatogram Pattern	Additional Comments (c)	Conc. (d)	Laboratory Description of Chromatogram Pattern	Additional Comments (c)
	(ug/L)			(ug/L)		
SB-1	930	Unidentifiable pattern of hydrocarbons greater than C8.	Discrete peaks in 12-20 mln. range.		Unidentifiable pattern of hydrocarbons in C9-C24 range.	Mound in less than C12 range.
SB-2	<50	Not detected.	Small mound centered at 24 min.	<41,000 (as diesel)	Not detected.	No peaks visible.
SB-3	<5000	Nol detected,	Mound centered at 24 min.	13,000,000 (total extract.)	Pattern characteristic of diesel and unidentifiable pattern of hydrocarbons in C25-C36 range.	Mound centered at C17 with some discrete peaks.
SB-4	<200	Not detected,	Small mound centered at 24 min.	690,000 (as diesel)	Pattern characteristic of weathered diesel.	Mound centered at C17 with son discrete peaks.
SB-5	1,800	Unidentifiable pattern of hydrocarbons greater than C11 and discrete peak in C6-C7 range.	Mound centered at 24 min.	2,100,000 (total extract.)	Pattern characteristic of diesel.	Mound centered at C17.
SB-6		Unidentifiable pattern of hydrocarbons greater than C11.	Mound centered at 24 min.	22,000,000 (total extract.)	Pattern characteristic of diesel.	Mound centered at C17.
MW-5		Pattern characteristic of weathered gasollne in C6-C12 range.	Discrete peaks in 16-23 min. range.	<40,000 (as diesel)	Not detected.	No peaks visible.
MW-7	<50	Not detected.	No peaks or mounds.	1,000 (as diesel)	Unidentifiable pattern of hydrocarbons in C9-C24 range.	Mound centered at C24 (not observed in other groundwater samples).

- (a) Groundwater samples collected by Erler & Kalinowski, Inc. on 15 and 16 June 1996.
- (b) Sampling locations corresponding to Sample ID are shown in Figure 2.
- (c) Concentration quantified as gasoline (includes C6 to C12 compounds).
- (d) Appendix G contains chromatograms from laboratory analysis of samples and, for comparison, petroleum hydrocarbon and n-alkane standards.
- (e) Concentration quantified either as diesel (includes C9 to C24 compounds) or as total extractable petroleum hydrocarbons (includes C9 to C40 compounds).

TABLES.XLS

ATTACHMENT 6



AGENCY

DAVID J. KEARS, Agency Director



R043

RAFAT A. SHAHID, DIRECTOR

Certified Mail # Z 296 048 464 11/08/95 - STID# 3710

DEPARTMENT OF ENVIRONMENTAL HEALTH 1131 Harbor Bay Parkway Alameda, CA 94502-6577

Notice of Requirement to Reimburse (510) 567-6777

Megan Mchugh Sybase, Inc. 6475 Christie Avenue Emeryville, California 94608

Responsible Party #1 Property Owner

Thomas Richardson N/a P O Box 7817 Berkeley, California 94707

Responsible Party #2 Former Property Owner

Vacant Facility 6603 Bay St Emeryville, CA 94608

SITE

Date First Reported 10/10/89

Substance: Diesel Petroleum: (X) Yes

Source: F

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of overseeing site investigation or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site. YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Section 25297.1 of the California Health and Safety Code, the above Responsible Party or Parties must reimburse the State Water Resources Control Board (SWRCB) not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above referenced underground storage tank site, and the above Responsible Party or Parties must make full payment of such costs within 30 days of receipt of a detailed invoice from the SWRCB.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the SWRCB. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please fax your request to Roni Riley at the SWRCB at (916) 227-4349 or telephone (916) 227-4408 Please contact Susan HUGO, Hazardous Materials Specialist at this office if you have any questions concerning this matter.

Gordon Coleman, Acting Chief Contract Project Director

Please Circle One:

Add Delete Change

Change

c: Mike Harper, SWRCB

Reason: Change of Ownership

Standard Form UST03(6/93) ; Report: ReimbRP 5/95

ALAMEDA COUNTY HEALTH CARE SERVICE



DAVID J. KEARS, Agency Director



R043

RAFAT A. SHAHID, DIRECTOR

Z 296 048 463 Certified Mail # 11/08/95 - STID# 3710

DEPARTMENT OF ENVIRONMENTAL HEALTH 1131 Harbor Bay Parkway Alameda, CA 94502-6577

Notice of Requirement to Reimburse (510) 567-6777

Megan Mchugh Sybase, Inc. 6475 Christie Avenue Emeryville, California 94608

Responsible Party #1 Property Owner .

Thomas Richardson N/a P O Box 7817 Berkeley, California 94707

Responsible Party #2 Former Property Owner

Vacant Facility 6603 Bay St Emeryville, CA 94608

SITE

Date First Reported 10/10/89

Substance: Diesel Petroleum: (X) Yes

Source: F

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of overseeing site investigation or remedial action at the above site are funded, in whole investigation or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site. YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Section 25297.1 of the California Health and Safety Code, the above Responsible Party or Parties must reimburse the State Water Resources Control Board (SWRCB) not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above referenced underground storage tank site, and the above Responsible Party or Parties must make full payment of such costs above Responsible Party or Parties must make full payment of such costs within 30 days of receipt of a detailed invoice from the SWRCB.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the SWRCB. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please fax your request to Roni Riley at the SWRCB at (916) 227-4349 or telephone (916) 227-4408 Please contact Susan HUGO, Hazardous Materials Specialist at this office if you have any questions concerning this matter.

NOVINO A Gordon Coleman, Acting Chief Contract Project Director

c: Mike Harper, SWRCB

Please Circle One:

Add Delete (Change

Reason: Change of Ownership

Standard Form UST03(6/93) ; Report: ReimbRP 5/95



DAVID J. KEARS, Agency Director



R043

RAFAT A. SHAHID. Assistant Agency Director

Certified Mail # Z 773 036 398

12/20/94 STID# 3710

ALAMEDA COUNTY DEPT. OF ENVIRONMENTAL HEALTH ENVIRONMENTAL PROTECTION DIVISION 1131 HARBOR BAY PKWY., #250 ALAMEDA CA 94502-6577

Notice of Requirement to Reimburse

Thomas W Richardson/ Edith Jackson P. O. Box 7817 Berkeley, Ca 94707

Responsible Party #1 Property Owner

Ms. Megan Mchugh S Y B A S E 6475 Christie Avenue Emeryville, California 94608

Responsible Party #2 Contact Person Contact Company

Vacant Facility . 6603 Bay St Emeryville, CA 94608

SITE

Date First Reported 10/10/89

Substance: Diesel Petroleum: (X) Yes

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of site investigation or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation the Federal Trust Fund. The above individual(s) or entity(les) have been identified as the party or parties responsible for investigation and cleanup of the above site. YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 and 25360 of the California Health and Safety Code, the above Responsible Party or Parties must reimburse the State Water Resources Control Board not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site, and the above Responsible of the above underground storage tank site, and the above Responsible Party or Parties must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

Please contact Susan HUGO, Hazardous Material's Specialist at this office if you have any questions concerning this matter.

MEdgar B. Howell, III, Chief Contract Project Director

cc: Mike Harper, SWRCB

SWRCB Use:

CHANGE: X Reason: ADD RP#2

ALAMEDA COUNTY **HEALTH CARE SERVICES**

AGENCY

DAVID J. KEARS, Agency Director certified mailer #P 367

February 27, 1992 STID# 3710

State Water 2 sources Control Board Division Clean Water Programs UST Local Oversight Program

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Division 80 Swan Way, Rm. 200 Oakland, CA 94621 (510) 271-4320

Notice of Requirement to Reimburse

Thomas W. Richardson Edith Jackson P.O. Box 7817 Berkeley, CA 94707

Responsible Party Contact Person Property Owner

6603 Bay Street Emeryville, CA 94608 SITE

Date First Reported 10/10/89 Substance: gasoline , diesel Petroleum (X) Yes

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site. YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 and 25360 of the California Health and Safety Code, the above Responsible Party or Parties must reimburse the State Water Resources Control Board not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site, and the above Responsible Party or Parties must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

If you have any questions concerning this matter please contact Susan L. Hugo, Senior Hazardous Material Specialist, at (510) 271-4530.

Sincerely,

Edgar B. Howell, III, Chief Contract Project Director

Sandra Malos, SWRCB

SWRCB Use

add: X

Reason: New case

ALAMEDA COUNTY **HEALTH CARE SERVICES**



ALEX BRISCOE, Agency Director



ENVIRONMENTAL HEALTH DEPARTMENT OFFICE OF THE DIRECTOR 1131 HARBOR BAY PARKWAY ALAMEDA, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Certified Mall #: 7009 2820 0001 43598785

August 4, 2015

NOTICE OF RESPONSIBILITY

Site Name & Address:

RICHARDSON / SYBASE 6603 BAY (SHELLMOUND) STREET **EMERYVILLE, CA 94608**

Local ID:

RO0000043

Related ID: RWQCB ID: NA NA

Giobai ID:

T0600100470

Responsible Party:

WINTZEN, INC.

ATTN.: JACON WARREN 6601 SHELLMOUND STREET **EMERYVILLE, CA 94608**

Date First Reported:

10/10/1989

Substance:

- 8006619 Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
- 12034 Diesel fuel oil & additives (Nos. 1-D,

2-0, 2-4)

Funding for Oversight: LOPS - LOP State Fund

Multiple RPs?: Yes

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 WINTZEN, INC. 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) 341-5752.

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

RONALD BROWDER, Acting Director **Contract Project Director**

Date: 04-04-15

Action:

ADD

ADD

Reason:

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRC8 (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File

ALAMEDA COUNTY ENVIRONMENTAL HEALTH LUFT LOCAL OVERSIGHT PROGRAM

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET

August 4, 2015

Site Name & Address:

RICHARDSON / SYBASE 6603 BAY (SHELLMOUND) STREET EMERYVILLE, CA 94608 Local ID: RO0000043

Related ID: NA RWQCB ID: NA

Global ID: T0600100470

All Responsible Parties

RP has been named a Primary RP – THOMAS RICHARDSON P.O. BOX 7817 | BERKELEY, CA 94707 | No Phone Number Listed

RP has been named a Primary RP - SYBASE, INC. (SAP)

ATTN: DWAIN CHRISTENSEN

3410 HILLVIEW AVENUE | PALO ALTO, CA 94304 | No Phone Number Listed

RP has been named a Primary RP - WINTZEN, INC

ATTN: JACON WARREN

6601 SHELLMOUND STREET | EMERYVILLE, CA 94608 | No Phone Number Listed

RP has been named a Primary RP – GRIFFIN CAPITAL (SHELLMOUND) INVESTORS LLC ET AL

ATTN: JULIE TREINEN

6601 - 6603 SHELLMOUND STREET | EMERYVILLE, CA 94608 | No Phone Number Listed

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET (Continued)

August 4, 2015

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:

- 1. "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 approximately 7,500-gallon underground storage tank (UST) that stored gasoline and one 2,000-gallon UST that stored unleaded gasoline were excavated and removed from the site on October 10, 1989. No holes were reported. Pit water was described as brown, with scum floating on water. Three confirmation soil samples were collected from the sidewalls at the center point of the tank at a depth of 7.5 feet below surface grade. Concentrations up to 2,700 milligrams per kilogram (mg/kg) TPH as diesel and 3,400 mg/kg Total Oil and Grease (TOG) were documented. Total Petroleum Hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were not analyzed for. These data indicate that an unauthorized release had occurred.

Responsible Party Identification

Thomas Richardson is a former property owner associated with the underground storage tank (UST). Thomas Richardson is a responsible party for the site because he owned a UST used for the storage of a hazardous substance (Definition 1), owned the property associated with an unauthorized release (Definition 3), and had control of a UST following an unauthorized release of a hazardous substance (Definition 4).

Sybase, Inc, (currently SAP) purchased or received the property in April 1994, and is a former property owner associated with the UST. Sybase, Inc. is a responsible party for the site because it owned the property associated with an unauthorized release (Definition 3).

Wintzen, Inc, purchased or received the property in June 1998, and is a former property owner associated with the UST. Wintzen, Inc. is a responsible party for the site because it owned the property associated with an unauthorized release (Definition 3).

Griffin Capital (Shellmound) Investors LLC and Griffin Capital (Shellmound) Investors LLC et al purchased or received the property in May 2006, and is a former property owner associated with the UST. Griffin Capital (Shellmound) Investors LLC and Griffin Capital (Shellmound) Investors LLC et al are responsible parties for the site because they owned the property associated with an unauthorized release (Definition 3).

ALAMEDA COUNTY **HEALTH CARE SERVICES**



ENVIRONMENTAL HEALTH DEPARTMENT OFFICE OF THE DIRECTOR 1131 HARBOR BAY PARKWAY ALAMEDA, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

AGENCY

ALEX BRISCOE, Agency Director

Certifled Mail #: 7009 2820 0001 4359 8778

August 4, 2015

NOTICE OF RESPONSIBILITY

Site Name & Address:

RICHARDSON / SYBASE 6603 BAY (SHELLMOUND) STREET **EMERYVILLE, CA 94608**

Local ID: RO0000043

Related ID: NA RWQCB ID: NA

Global iD:

T0600100470

Responsible Party:

GRIFFIN CAPITAL (SHELLMOUND) INVESTORS LLC. ET AL ATTEN: JULIE TREINEN 6601 - 6603 BAY STREET EMERYVILLE, CA 94608

Date First Reported: 10/10/1989

Substance:

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RONALD BROWDER, Acting Director **Contract Project Director**

Date: 09-04-15

Action: ADD

ADD Reason:

ALAMEDA COUNTY ENVIRONMENTAL HEALTH **LUFT LOCAL OVERSIGHT PROGRAM**

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET

August 4, 2015

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ATTN: JACON WARREN

6601 SHELLMOUND STREET | EMERYVILLE, CA 94608 | No Phone Number Listed

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ATTN: JULIE TREINEN

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August 4, 2015

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ATTACHMENT 7

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

ALEX BRISCOE, Director

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

INVITATION TO COMMENT – POTENTIAL CASE CLOSURE

Mussallem / Sybase and Richardson / Sybase 6601 and 6603 Shellmound (Bay) Street FUEL LEAK CASES RO0000042 and RO0000043 GEOTRACKER GLOBAL IDS T0600100825 and T0600100470

June 12, 2015

The above referenced site is a fuel leak case that is under the regulatory oversight of the Alameda County Environmental Health (ACEH) 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, ACEH is considering closure of the fuel leak case. Due to the residual contamination on site, the site would be closed with site management requirements that require further evaluation if the site is to be redeveloped in the future.

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 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). Please send written comments to Mark Detterman at the address below; all comments will be forwarded to the responsible parties. Comments received by August 18, 2015 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 ACEH caseworker, Mark Detterman at 510-567-6876 or by email at mark.detterman@acgov.org. Please refer to ACEH cases RO0000042 and RO0000043 in any correspondence.

Parcel_APN 49-1490-3 49-1490-1 49-1490-4 49-1510-2-2 49-1490-3 49-1490-2 49-1490-1 49-1490-4 49-1490-5 49-1510-4 49-1510-2-2 49-1490-5 49-1510-4 49-1510-4 49-1510-4	Name GRIFFIN CAPITAL (SHELLMOUNGRIFFIN CAPITAL (SHELLMOUNGRIFFIN CAPITAL ATRIUM INVENDED IN 166TH STREET LLC NADY JOHN TR OCCUPANT PUBLIC STORAGE INSTITUTIONS P CO 872-1-9F-18 S P CO 872-1-9F-20	111 SUTTER ST 11 GLEN ALPINE RD 6601 BAY ST 6707 BAY ST 6603 BAY ST 1690 65TH ST 6501 BAY ST 66TH ST 65TH ST 1501 66TH ST	Unit 800	BROOMFIELD CO	Zip 94608 94608 75354 94104 94611 94608 94608 94608 94608 94608 94608 94608 94608 94608 94608 94608 94608
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