TO: MR. BARNEY CHAN

FROM: EMASS ABDAMAH

1083 84 AV

UAKIAND 94603

(510) 568-6531

This letter confirms the completion of site investigation and remedial action for the former underground storage tank (1-550 gallon gasoline tank) removed from the above site on August 21, 1991. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. If changes in land use, structural configuration, or site activities are proposed such that more conservative exposure scenarios should be evaluated, the owner must promptly notify this agency.

Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

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Mee Ling Tung, Director

Chief, Division of Environmental Protection CC: Kevin Graves, RWQCB Lori Casias, SWRCB (with attachment)

files (ptrson11)

AGENCY

ID J. KEARS, Agency Director

5686531



Alameda County Environm 1131 Harbor Bay Park Alameda, CA 94502-4577 (510)567-6790 BAX (\$36)\$3748

CTION COMPLETION CERTIFICATION

1083 98th Ave, Oakland, CA

July 3, 1996

r. Malter Peterson 1937d Terrace latin, OR 97062

Dear Mr. Peterson:

This letter confirms the completion of site investigation and remedial action for the former underground storage tank (1-550 gallon gasoline tank) removed from the above site on August 21, 1991. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, mo further action related to the underground tank release is required.

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Mee Ling Tung, Director

Chief, Division of Environmental Protection ac: Kevin Graves, RWQCB Lori Casias, SWRCB (with attachment) files (person11)

and Disposal of Affected Material:

Material	<u>Amount</u> (include units)	or Disposal w/destination	7. ********
Tank	1 UST	Disposed by Brickson, in Ric	hmond 8/21/91
Soil	7 CY	Unknown	1991

Maximum Documented Conta	aminant Concentration Soil (ppm) Before After ¹	s Before and After Clear Water (ppb) Before After
TPH (Gas) TPH (Diesel)	1,760 1,100 290 560	<300,000* 14,400 150 1,400
Benzene Toluene Ethylbenzene Xylenes	<1.5 1.2 34 2.3 40 18 220 75	19 ND ND 1 ND 3 ND 7
Oil & Grease Heavy metals Total Pb Other SVOCs	1,335° 1,335° 160° see NOTE 5	60,000 NA ND ³ see NOTE 5

NOTE:

- from soil boring SB-2 at 11.5' bgs
- from boring B-4 at 1.5' beneath fuel pump area from boring 88-3 at 1.5' bgs with CA Modified WET method
- elevated reporting limit due to hydrocarbon interference in the
- diesel/kerosene range
- 0.04 ppm naphthalens and 0.01 ppm phenanthrens in soil; 11 ppb bis(2-5 athylhexyl)phthalate in groundwater
- from tank pit after overexcavation to 12.5' bgs

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

CLOSURE IV.

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined Does completed corrective action protect potential beneficial uses per the Undetermined Regional Board Basin Plan? Does corrective action protect public health for current land use? YES Site management requirements: None

Should corrective action be reviewed if land use changes? Monitoring wells Decommissioned: None, pending site closure Number Retained: 1 Mumber Decommissioned: List enforcement actions taken: Nov 19, 1993 pre-enforcement review panel 0 List enforcement actions rescinded: Above, in compliance

ATECOPORATION DATA

e Chris

evalu_

Title: Has Mat Special

Date: 5/44 C

Barney Chan

Bury Olis

Title: Haz Mat Special

Date: 5/6/74

Title: Has

Date: 5/6/96

MOCE NOTIFICATION

mte Monitted to RB: 5/7/94

RB Response: Approved

Title: AWRCE

Date: 5/23/96

MANCE Staff Name: | Kevin Graves

sicosture:

TEL. ADDITIONAL COMMENTS, DATA, ETC.

Then a 550 gallon UST, which had stored gasoline and fuel oil, was successful august 21, 1991 holes were observed in the underside of the tank. A soil sample collected from the pit bottom exhibited up to 1,760 ppm TPH-G. 340 ppm TPH-D, 510 ppm TOG, and ND, 34, 40, and 220 ppm BTEX, sample The pit bottom was excavated vertically to 12' bgs, where a soil sample collected exhibited 490 ppm TPH-G, 32 ppm TPH-D, and 1,335 ppm TOG. Analysis for BTEX was not requested this time. (See Table 1.)

In January 1994 four soil samples (B-1 through B-4) were collected beneath the remaining piping (which was capped and closed in-place) and pump facility associated with the former UST. Only sample B-4, from the vicinity of the pump apparatus, exhibited elevated levels of patroleum hydrogarbons (520 ppm TOG) and total lead at 160 ppm. (See Fig 2, Table 1.)

A shallow groundwater monitoring well was installed approximately 10' west of the former tank pit (in the assumed downgradient direction). Groundwater was first encountered at 12.5' bgs. Soil from 14' bgs contained 380 ppm TPH-D, 340 ppm TOG, and ND for TPH-G and BTRX. Initial groundwater exhibited up to 150,000 ppb TPH-D, 60 ppm TOG, and 19 ppb benzene.

To further delineate the lateral extent of soil and groundwater contamination, four borings (HP-2 through HP-5) were advanced approximately

CASE CLOSURE SINGURY eaking Daderground Fuel Storage T

CK EMBOUNTION

May 3, 1996 Date:

Me: Alameda County-HarNat Address: 1131 Marbor 1

le staff person: Eva Chu

LE INFORMATION

facility name: Walter Peterson

acility address: 1083 98th Ave, Oakland, CA 94603

Local Case No./LOP Case No.: * 66 SWEEPS No: N/A TRUTTS Case No: N/A

filing date: 3/9/92

ongible Parties:

550

Addresses:

Phone Municipal

Lter Peterson

2617 Buena Vista, Alameda, CA

510/769-8885

<u>Size in</u> galei

Contents:

Closed in-place or removed?:

Date:

Gasoline/Fuel Oil

Removed

8/21/91

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Leaking UST Site characterization complete? YES

Date approved by oversight agency: 2/21/96

Number: 1 Monitoring Wells installed? ΥΦB Proper screened interval? Yes, 8 to 18.5' bgs

Mighest GW depth below ground surface: 9.90 Lowest depth: 12.05' Flow direction: Southwest, as measured from 1031 98th Ave, which is

southwest of site.

Most sensitive current use: Residential

Are drinking water wells affected? No Aquifer name: Unknown Is surface water affected? No Nearest affected SW name: MA

Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County 1131 Harbor Pay Bing Alameda, Ch 94582

dignt of the former tank pit, and one boring the suppression of the former tank pit to collect the suppression. Some of the "grab" groundwater samples, or MAS. TPH-D concentrations ranged from Markov or MAS. TPH-D concentration is limited to within 60' and the super location. (See Fig 3, Table 2.)

Accept morings (SB-1 and SB-2) were also advanced within 5' of the more tank pit, and one boring (SB-3) advanced more tank pit, and one boring (SB-3) advanced more fuel pump area. The CA modified WET method for leading ample collected from 1.5' bgs near the former pump area. It detected. Boring SB-2 (north of the former tank pit) at 11.5' to detected. Boring SB-2 (north of the former tank pit) at 11.5' and 1.2' and 1.3' an

Additional investigations were conducted to assess the potential for further petroleum hydrocarbon migration and groundwater degradation at the site. A soil sample SB-4 was collected within 0.5' of the previous bening the 2 where relatively high concentrations of petroleum hydrocarbons were detected. The soil sample from 11.5' bgs was analyzed for extractable metroleum hydrocarbons using the CA Modified Waste Extraction Test that the concentration in the concentration of 0.2 ppm. Therefore, residual not detected above the detection limit of 0.2 ppm. Therefore, residual petroleum hydrocarbons remaining in soil is not expected to further impact petroleum hydrocarbons remaining in soil is not expected to further impact petroleum hydrocarbons remaining in soil is not expected to further impact.

A hydraulic (slug) test was also conducted to assess the potential for further petrolsum hydrocarbon migration at the site. The satimated hydraulic conductivity (K) of the shallow groundwater zone at well LF-1 is approximately 1.2 x 10⁻³ cm/s (3.3 ft/day), which is typical of silty sand or clay sediments. The calculated groundwater flow velocity is 0.026 ft/day. These results indicate the relatively low permeability of the shallow zone sediments at the site.

Groundwater has been sampled for five non-consecutive quarters. TPH-D levels have decreased from 150,000 to 14,000 ppb between February 1994 and November 1995. Analysis for PNAs in November 1995 detected only 11 ppb Bis (2-ethylhexyl) Phthalate. Up to 1,400 ppb TPH-G, and non-detectable to trace levels of BTEX have been detected. It appears biodegradation and/or other attenuation processess (eg. sorption) are actively reducing petroless by drocarbon concentrations in groundwater. (See Table 2.)

Shallow groundwater at the site is not a potential source for drinking water. Residual levels of the chemicals of concern (namely BTEK and PMAS) in groundwater are extremely low. Residual soil contamination is also limited to depths below the groundwater surface (at approximately 11 to 14 bgs). Therefore, potential exposure to human health appears to be minimal. Continued monitoring at this site is not warranted.

Bezaga

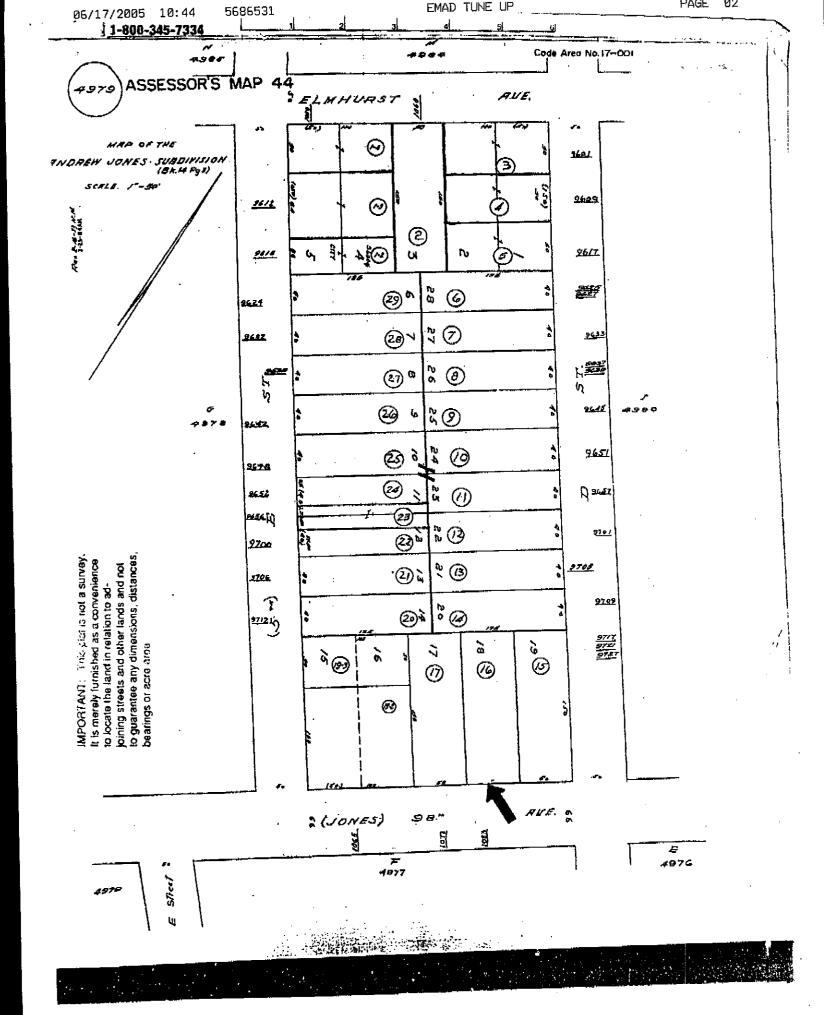


TABLE 1
SUMMARY OF SOIL SAMPLE ANALYSIS RESULTS (spin)
1963 1966 Avenue, Octobrol, CA

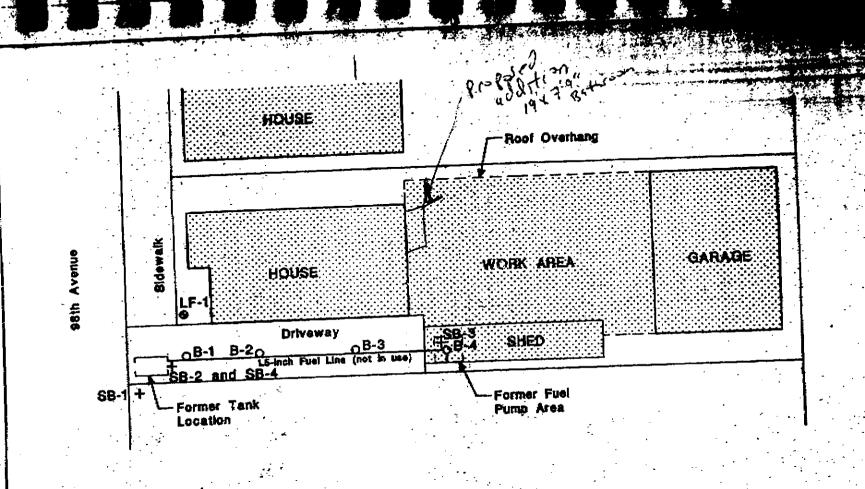
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1.4			and the state of t	15021	CONTROL CONTROL		All the second and	Princia.	Elia Sanas		e de valor 1,400 1,400	Salvey.
		•	706	TRILA	TPHE)	B	T	E	×		•
Tank excavation floor	8 12	8/27/91 10/17/91	510 1,335	1,760 490	29 8 34	NA NA	<1.5 NA	34 NA	NA	220 NA	NA NA	NA NA
LEVINE-PRICKE		·			. :					-	. *	
B-i	1.5	1/21/94	. 10	<0.2	<1	NA.	<0.005	<0.005	<0.005	<0.005	10	NA
B-2	1.5	1/21/94	· · <10	<0.2	<1	ÑΑ	<0.005	<0.005	<0.005	` <0.005	9	NA
B-3	1.5	1/21/94	<10	<0,2	<1	. NA	<0.005	<0.005	<0.005	<0.005	8 .	NA
B-4	1.5	1/21/94	190	<0.2	520	NA	<0.005	<0.005	<0.005	<0.005	160	NA
LF-1-14	14	1/21/94	340	<\$0	380	NA	<0.1	<0.1	1.0⊳	<0.1	10	NA
AZURE ENVIRONM	ENTAL	٠.		•	-						•	
SB-1	5	4/3/95	<10	<0.2	<1	NA	<0.005	<0.005	<0.005	<0.005	NA .	40.3
	11.5	4/3/95	<10	<0.2	<1	NA	<0,005	<0.005	<0.005	<0.005	NA	<0.2
SB-2	Ś	4/3/95	^<10	<0.2	<1	NÁ	<0.005	<0.005	<0.005	<0.005	NA NA	<0.2
,	11.5	4/3/95	· 550	1,109	560	NÁ	1.2	2.3	18	75	NA	*
SB-3	1.5	4/3/95	0.42	<0.2	0.08	NA.	<0.005	<0.005	<0.005	< 0.005	<0.1#	NA.
	5	4/3/95	<10	<0.2	<1	NA	<0.005	<0.005	<0.005	<0.005	NA	NA
	11.5	4/3/95	<10	<0.2	<1	NA	<0.005	<0.005	<0.005	< 0.005	NA	NA.
SB-4	11.5	11/20/95	20	<0.2	16	<0.2^	<0.005	<0.005	<0.005	<0.005	NA.	NA

NOTES:

- Total Petroleum Hydrocarbons as Oil and Grease

- Total Patraleum Hydrocarbons as Gas - Total Patraleum Hydrocarbons as Diesel - Political Assembles (BPA Method \$270)

place and \$.01 ppm Phenanthrene detected builds using a delonized water Waste Extraction Test (WET) method.



EXPLANATION:

- o 1.5-foot depth boring location
- e Shallow monitoring well location
- + Soll boring location



Figure 2: Site Map Showing Sampling Locations