

Ms. Juliet Shin
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502-6577

February 12, 1996

RE: Second consecutive quarter (1st Quarter, 1996) groundwater monitoring: 1081-1085 Eastshore Highway (formerly 1077 Eastshore Frontage Road), Albany, California.

Dear Ms. Shin;

This letter report provides the results of the second consecutive quarter (First Quarter, 1996) sampling of the monitoring wells at 1081-1085 Eastshore Highway (formerly 1077 Eastshore Frontage Road), Albany, California (Figure 1).

Depth to water in each monitoring well was measured to +/- 0.01 feet using a Solinst Model 101 water level meter on January 11, 1996. The depth to water was converted to potentiometric surface elevation by subtracting the measured depths to water from the casing top elevation. This information is presented below.

WELL AND GROUNDWATER ELEVATIONS JANUARY 11, 1996

Well Number	Top of Casing Elevation (feet, msl)	Time of Depth measurement	Depth to Water (feet)	Groundwater Surface Elevation (feet, msl)
MW-4	8.58	12:46	8.58	2.14
MW-K	8.43	12:36	8.43	2.91
MW-L	7.64	12:45	7.64	2.59
MW-N	8.96	12:41	8.96	3.29

The groundwater flow direction (more precisely direction of groundwater gradient, since the horizontal hydraulic conductivity anisotropy is unknown) for the triangle with a well at each apex is S 19.1° E at a gradient of 0.0104. Figure 2 is a potentiometric surface map showing well locations and groundwater surface contours as measured on January 11, 1996. Historic water level information follows.

Juliet Shin February 12, 1996 Page 2

MW-4	10/17/95	09:49	6.57	2.01
	01/11/96	12:46	8.58	2.14
MW-K	10/17/95	10:01	5.74	2.69
	01/11/96	12:36	8.43	2.91
MW-L	10/17/95	09:53	5.78	1.86
	01/11/96	12:45	7.64	2.59
MW-N	10/17/95	09:56	6.02	2.94
	01/11/96	12:41	8.96	3.29

GROUNDWATER FLOW DIRECTION AND GRADIENT

10/17/95 S 16.4° W at a gradient of 0.0053 01/11/96 S 19.1° E at a gradient of 0.0104

AVERAGE S 1.4° E at a gradient of 0.0078

Following water level measurements the groundwater surface at each monitoring well was checked for free product, observation of sheen, and odor. No free product, sheen, or odor was noted.

The monitoring wells were purged by pumping with an "ES-60" submersible pump marketed for monitoring well purging by Enviro-Tech Services Co. of Martinez, California. Field measured water quality parameters were measured using a Cambridge Scientific Industries Hydac™ Conductivity Temperature pH Tester. Well purging activities and the field measured water quality parameters are documented in Attachment A. For each well, purging continued until specific conductance stabilized to +/- 5% on consecutive readings.

The purge pump was slowly removed from each well while running to allow a sweeping of the wellbore, preventing significant surging of the wellbore and drainage of the discharge tubing into the well.

Groundwater samples for TPH-D were collected directly from the end of the pump discharge tubing into a one liter amber glass bottle. Groundwater samples for TPH-G plus BTEX were collected using a precleaned Teflon bailer suspended from a new nylon twine line. Water samples were transferred, in duplicate, from the bailer to 40-mL glass vials with Teflon septum lids using a precleaned Teflon pepcock type bottom emptying device.

Juliet Shin February 12, 1996 Page 3

Groundwater sample bottles were labeled and placed in an ice chest with 2 Liter plastic bottles containing ice. Chain-of-Custody forms were filled out and were delivered with the ice chest to Chromalab, Inc. of Pleasanton, California, a state certified laboratory.

Groundwater samples from both monitoring wells MW-4 and MW-L were found not to contain detectable concentrations of petroleum hydrocarbons. Monitoring well MW-4 was found to contain 460 micrograms per liter (μ g/L) of hydrocarbons in the Diesel range. As detailed in the December 22, 1995 letter these are attributed to hydrocarbons derrived from decayed vegetation encountered in the monitoring well borehole. The laboratory report and Chain-of-Custody documentation is contained in Attachment B. The historic groundwater sample analytical results are summarized below.

All concentrations are expressed in micrograms per liter ($\mu g/L$).

Well	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW-4						
10/17/95	440*	<50	<0.5	<0.5	<0.5	<0.5
* "Superio	or Analytical rep	orts all compounds	from ClO-C25 as Dies	el.		
01/11/96	<50	<50	<0.5	<0.5	<0.5	<0.5
Chromal	ub reported 460 p	g/L unknown bydroca	rpons in the diesel	range.		
MW-L						
10/17/95	180*	<50	1.3	<0.5	0.6	0.5
* *Superio	or Analytical rep	orts all compounds	from C10-C25 as Dies	el.		
01/11/96	<50	<50	<0.5	<0.5	<0.5	<0.5
Californi	a*Primar	V MCL's				
	ıa	na	1	na	680	1,750
US E.P.A.	*Primarv	MCL's				
	ia	na	5	1,000	700	10,000
						= 5 , 0 0 0

na - not available

Marshack, Jon B., D. Env. 1991, A Compilation of Water Quality Goals, Central Valley Regional Water Quality Control Board.

Juliet Shin February 12, 1996 Page 4

The third consecutive quarter (Second Quarter, 1996) sampling event at 1081-1085 Eastshore Highway (formerly 1077 Eastshore Frontage Road), Albany, California is scheduled for the week of April 08, 1996.

Please do not hesitate to call me at (510) 373-9211 should you have any questions.

ED GA

GARY D. LOWE

No. 1559

Centified Engineering

GEOLOGIST

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HYDROCEOLOG 83

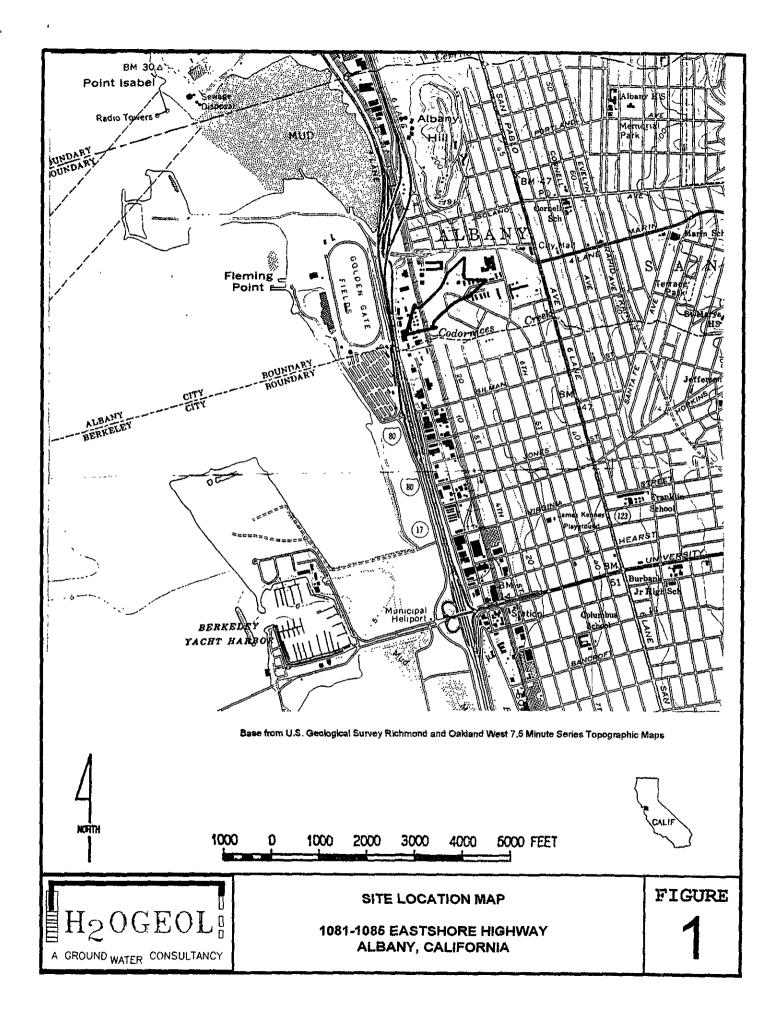
Sincerely,

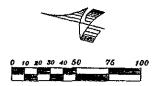
Gary D. Lowe, R.G., C.E.G., C.H.

Principal, Hydrogeologist

Sole Proprietor

xc: Mr. John Piggott, Wilanco, Inc., P.O. Box 8117, Berkeley, CA, 94563





MW-N

Monitoring Well name/Number

 \oplus

Monitoring Well Location

2.91

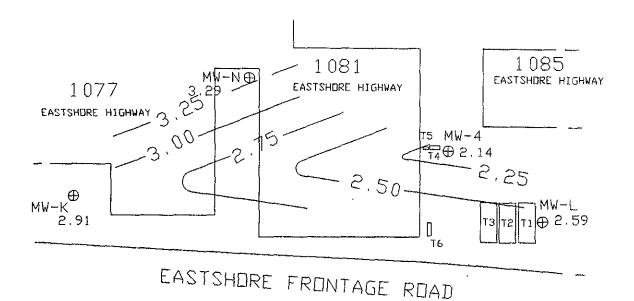
Groundwater Surface Elevation

at monitoring well

T1, T2, & T3 Dieset T4, T5, & T6 Gasoline

Information from ENSR, June 17, 1993, Vilonco Tank Removal Report

Potentiometric Surface Contour and Contour Elevation



GRADIENT = 0.0104 Feet/Foot

DIRECTION OF GRADIENT = S 19.1° E

(Approximate groundwater flow direction, uncorrected for hydraulic conductivity anisotropy).

Tank locations and dimensions are approximate after ENSR, 1993, Figure 1.



POTENTIOMETRIC SURFACE MAP **JANUARY 11, 1996** 1077-1085 EASTSHORE HIGHWAY ALBANY, CALIFORNIA

FIGURE



P.O.Box 2165 - Livermore, California 94551 - 510-373-9211

ATTACHMENT A

FIELD DATA SHEET
LOG OF WELL SAMPLING ACTIVITIES

LOG OF WELL SAMPLING ACTIVITIES

beloma				· Pro	oject Name	: 1081-	1085 Eastsho	re l	Highway, A	Alba	ny, CA D	ate: 10/17/95
	by: <u>G</u>	. Lov	/e & R.	Vorst	-	Weath	er Conditions	:	Cles	·r,	breezy,	65°F
Vell Loce	ation:		·			Well C	Casing Diamet	er:	2-inch	<u>1</u>	Depth of Well C	asing: 14.21
feasurin	g Point	: <u>To</u>	of PV	C Casing	Initial	Depth to V	Vater: <u>6.4</u>	4	- Fir	al [Depth to Water:	Not measured
asing V	olume ((1 vo	l./ 3 vo	i): 1.2°	t/3.2	<u>-</u>			Well Bore	hole	volume:	
Purging Method: Centrifugal Pump/Perietaltic Pump Grundfos Submersible Pump Centrifugal Pump/ES-60 Submersible ES-60 Submersible Pump X Sampling Method: Perietaltic Pump Grundfos Submersible Pump ES-60 Submersible Pump X Teflon Bailer											bmersible Pump ersible Pump	
urging R	late:	See	below		Total Disc	harge:	4.7		Ca	ısing	y Volumes Purged	± <u>38</u>
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Vaste Wi		·	al: 2:火		ty site drur	n.	<u> </u>					
ime Pun	np on:	_/3										
Date	np on: Tim		2:5		рН	T deg. F	Diluted S.C.	-	Dil. Factor	·	S.C. (µS/cm)	Color
Date	Tım		2:5 Gal.	Purged		T deg. F	Diluted S.C.	×	Dil. Factor	=	S.C. (µS/cm)	Color
Date	Tım	ne 53	2 : 5 Gal. 2, 1	Purged	٤			×	Dil. Factor	Τ-	S.C. (µS/cm)	Color
Date 1/11/96	71m	ne 53 55	Gal. 2.1 2.6	Purged / on per-	4.81	(LS.5	16,680	×	2	=	S.C. (µS/cm)	Calor bos
Date 1/11/96	Tin	ne 53 55 57	Gal. 2.1 2.6	Purged Jonger	6.88	68.5 66.6	16,680 16,760	×	2	#	S.C. (µS/cm)	Calo; 603
Date 1/11/96	71m /2 : /2 : /2 :	ne 53 55 57 57	Gal. 2.1 2.6 3.0 3.4	Purged onget- onget- lampto	6.81	66.5 66.6	16,680	×	2 2	=======================================		Color bos
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Date 1/11/96	7in /2 /2 /2 /2 /2 /3 /3 /3	ne 53 55 57 57	Gal. 2.1 2.6 3.0 3.4	Purged onget- onget- longton	6.88 6.87 6.88 6.87	65.5 66.4 66.4 66.3	16,680 16,760	x x x	2 2 4	=		Co/o; 603
Date 1/11/96	7in /2 /2 /2 /2 /2 /3 /3 /3	ne 53 55 57 57 02 04 09	Gal. 2.1 2.6 3.0 3.4 3.8 4.0	Purged onger- on	6.88 6.87	65.5 66.4 66.3 66.1	16,680 16,760	x x x	2 2 4	=	13,640	Colo; 603
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Date 1/11/96 11 11 11 11 11 11	Tim /2 /2 /2 /2 /3 /3	ne 53 55 57 57 02 04 09	Gal. 2.1 2.6 3.0 3.4 3.8 4.0	Purged onger- on	6.88 6.87 6.88 6.87 6.92	65.5 66.4 66.3 66.1	16,680 16,760	x x x x	2 2 4	= = = = = = = = = = = = = = = = = = = =	13,640 14,020 13,870	Co/o; 603
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Date 1/11/96	Tim /2 /2 /2 /2 /3 /3	ne 53 55 57 57 02 04 08	Gal. 2.1 2.6 3.0 3.4 3.8 4.0 4.°	Purged onger- on	6.88 6.87 6.88 6.87 6.87 6.92 6.86	65.5 66.4 66.3 66.1	16,680 16,760	x x x x x	2 2 2		13,640 14,020 13,870	Co/o; 603

LOG OF WELL SAMPLING ACTIVITIES

Well Iden	tificatio	on:	MW- L Pr	oject Name	e: <u>1081</u> -	-1085 Eastsho	ore	Highway,	Alba	ny, CA D	ate: 10/1	7/95	
Sampled I	ру: <u>G</u>	. Lov	ve & R. Vorst	-	Weat	ner Conditions	s:		* *Y	breezy	1654	· E	
Well Loca	tion:				_ Well (Casing Diamet	er:	2-incl		Depth of Well C	esing: <u>(</u> '	4.2	
Measuring Point: Top of PVC Casing Initial Depth to Water: 5.45 Final Depth to Water: Not measured													
Casing Vo	olume ((1 vo	1./ 3 vol): 1: 1	1/34				Well Bore	hole	Volume:			
Purging M	lethod		Centrifugal Pum Grundfos Subme Centrifugal Pum ES-60 Submersit	rsible Pum o/ES-60 Su	p	. x	Sa	mpling Me	thod	: Peristaltic Pu Grundfos Su ES-60 Subm Taflon Bailer	bmersible		
Purging R	ate:	See	below	Total Disc	charge:	5.6		Ca	gnia	Volumes Purged	: <u>4/</u>	<u></u>	
Comment	s: _		······································										
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Starting T		-	<u>3:20</u> 3:22										
Date	Tim	ne	Gal. Purged	рН	T deg. F	Diluted S.C.		Dil. Facto	,	S.C. (µS/cm)	Co	lor	
01/11/96	18	26	3.6	6.86	67.0	15870	×	2	=	15870	41.2		
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								TU	RBIC	DITY ANALYSIS			
Finishi	ng Tım	ıe.		-		Tim	ne A	Analyzed:		NTU \	/alue;		



P.O.Box 2165 - Livermore, California 94551 - 510-373-9211

ATTACHMENT B

LABORATORY ANALYTICAL REPORT SAMPLE CHAIN OF CUSTODY

CHROMALAB, INC.

Environmental Services (SDB)

January 20, 1996

Submission #: 9601534

H2O GEOL

Revised from previously sent report

Atten: Gary Lowe

Project:

WILANCO, INC.

Project#: 1081-1085 Eastshore Highway

Received: January 11, 1996

re: 1 sample for Gasoline and BTEX compounds analysis.

Method: EPA 5030/8015M/8020

Matrix: WATER

Sampled: January 11, 1996

Run#: 532

Analyzed: January 17, 1996

Spl# CLIENT SPL ID	Gasoline	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total D: XylenesFA((ug/L)	N'LI CTOR
77966 1081-85/MW-4	N.D.	N.D.	N.D.	N.D.	N.D.	1
Reporting Limits Blank Result Blank Spike Result (%)	50 N.D. 100	0.50 N.D. 106	0.50 N.D. 103	0.50 N.D. 109	0.50 N.D. 102	

June Zhao Chemist

Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

January 19, 1996

Submission #: 9601534

H2O GEOL

Revised from previously sent report

Atten: Gary Lowe

Project: WILANCO, INC.

Project#: 1081-1085 Eastshore Highway

Received: January 11, 1996

re: 1 sample for Gasoline and BTEX compounds analysis.

Method: EPA 5030/8015M/8020

Matrix: WATER

Sampled: January 11, 1996

Run#: 528

Analyzed: January 17, 1996

Spl# CLIENT SPL ID	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total DIL'N XylenesFACTOR (ug/L)
77967 1081-85/MW-L	N.D.	N.D.	N.D.	N.D.	N.D. 1
Reporting Limits Blank Result Blank Spike Result (%	50 N.D. 109	0.50 N.D. 101	0.50 N.D. 99.2	0.50 N.D. 104	0.50 N.D. 99.8

Billy Thach Chemist

Marianne Alexander

Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

February 12, 1996

Submission #: 9601534

H2O GEOL

Revised report from Feb.9,1996

Atten: Gary Lowe

Project: RATTO-LARKIN PROPERTY

Project#: 1628 WEBSTER ST, ALAMEDA

Received: January 11, 1996

re: 2 samples for TPH - Diesel analysis.

Method: EPA 3550/8015M

Matrix: WATER

Extracted: January 16, 1996

Sampled: January 11, 1996

Run#: 521

Analyzed: January 17, 1996

REPORTING BLANK BLANK DILUTION RESULT DIESEL LIMIT SPIKE FACTOR (ua/L) (ua/L) · #1q2 CLIENT SPL ID (ug/L) (%) 77*966* 1081-85/MW-4 N.D. 50

Note: Hydrocarbons in the Diesel range do not match our hydrocarbon standard profiles. Quantified using our Diesel standard, amount is 460 ug/L.

50

77967 1081-85/MW-L

N.D.

VD 99.8

1

Kayvan Kimyai Chemist

Alex Tam

Semivolatiles Supervisor

diesel analysis

Semple Name : 1534/MWI, FileName : D:\6000DJES\3117805.iew Sample 4: 77467 Date: 1/17/96 08:41 PM Page 1 of 1 Method : SDIESELB Time of Injection: 1/17/96 68:06 PM Low Point: 0.00 mV High Poi Plot Scale: 1000.0 mV Start Time : 0.00 min End Time : 35.00 min Flot Offset: 0 mV High Point : 1008,00 mV Scale Factor: 0.0 -20.34 -21.83 -22.67 -24.39 [Am] espodse_5 300 200 (c) 8 Ò 10 15 20 25

30

diesel analysis

Sample Name : 1534/MW4 FileName

Method

: D:\6000DIES\\$117004.rew

Start Time : 0.00 min

Scale Factor: 0.0

: SDIESELB

End Time : 35.00 min Plot Offset: 0 mV

Sample #: 77966

Date : 1/17/96 D7:59 PM

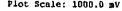
Time of Injection: 1/17/96 07:24 pm

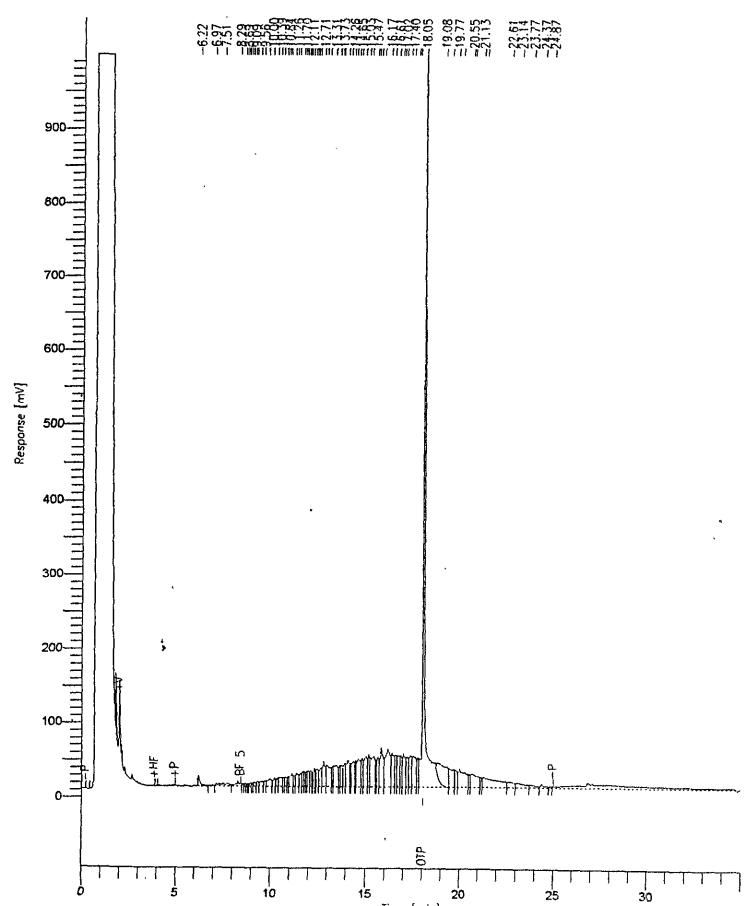
Low Point : 0.00 mV

Plot Scale: 1000.0 mV

High Point : 1000.80 mV

Page 1 of 1





Page 1 of 1 Sample #: 6C393 Sample Name : CCV166DIESEL Date: 5/25/95 81:31 PM Time of Injection: 5/25/95 12:55 PM d:\6500dies\T525001.raw tdieselb.ims High Point : 1000.00 mV Low Point : 0.00 mV End Time : 35.00 min Start Time : 8.00 min Plot Scale: 1000 mV Plot Offset: 0 mV Scale Factor: 900 800 Hexane Solvent 700 ez-weaddillin [m/] - Ortho terphenyl 600 Response 300 200. 100 Discher ing - à

Time [min]

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SAMPLER(6):		Gary D. Low	e & Richard	C. Vorst				Albany,	CA							REP
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