



## TRI-CITY PROPERTIES GARY KING PROJECT COORDINATOR 5157 BROPHY DRIVE FREMONT, CALIFORNIA, 94536 OFFICE (510) 793-9920 - PAGER (510) 810-5774

May 2, 1996

Ms. Amy Leech, REHS Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, Second Floor Alameda, CA 94502

Subject:

Request for Consideration of Site Closure for Property Located at 16525

Worthley Drive, San Lorenzo Area of Alameda County

Dear Ms. Leech,

The most recent monitoring report for the subject site is attached. A review of the analytical results from MW-2, MW-8 and RW-1 indicate a significant reduction in contamination levels for all three wells since August of last year. These data suggest both stability and natural degradation of the groundwater contamination plume.

Extensive remediation of both soil and groundwater has already been carried out at the site. Given the recent trend to allow natural bioremediation to complete the remediation of these types of low risk sites, we are requesting that you consider closure of the subject site at this time. We would be happy to meet with you at your convenience after you have had a chance to review the new data to discuss this request in more detail.

Sincerely,

Project Coordinator

ENVIRONMENTAL PROTECTION 96 MAY -3 PM 12: 44



April 29, 1996

Mr. Anthony Varni P. O. Box 778 Hayward, CA 94543

Subject:

First Quarter 1996 Monitoring Report for Property Located at the Southwest

End of Worthley Drive, San Lorenzo area of Alameda County

Dear Mr. Varni,

At the request of the Alameda County Dept. Of Environmental Health, quarterly monitoring of the site was initiated in the first quarter of 1996. To our knowledge, there were no site activities carried out in the fourth quarter of 1995 and a quarterly report was not prepared.

The site is located at the southwest end of Worthley Drive in San Lorenzo. The site location is shown on the attached location map (Figure 1). The southern edge of the site is bounded by an Alameda County flood control channel. The site plan is shown on Figure 2.

The scope of work for the quarterly monitoring was based on the most recent quarterly monitoring report for the site prepared by Lowney Associates dated September 12, 1995. The scope of work for the first quarter monitoring included the following: 1) gauging of seven onsite monitoring wells; 2) purging and sampling of monitoring wells MW-2 and MW-8; 3) purging and sampling of extraction well RW-1; 4) analysis of the water samples for TPH as gasoline and BTEX; 5) contouring of groundwater elevations and calculating direction and slope of the gradient using a three point problem solution; and 6) preparation of this letter report. The field work was carried out on April 17, 1996.

The depth to water measurements and calculated groundwater elevations are summarized below.

WELL NUMBER	TOP OF CASING ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION
MW-1	8.86	6.44	2.42
MW-2	9.17	6.66	2.51
MW-4	NA	5.57	
MW-5	9.11	5.62	3.49
MW-6	9.19	6.00	3.19
MW-7	8.41	5.62	2.79
MW-8	8.52	5.99	2.47

The groundwater contours are shown on Figure 2. The direction of the gradient was calculated using wells MW-1, MW-5 and MW-7. The direction is S5E and the slope is 0.009 ft/ft. These data are also shown on Figure 2 and are consistent with the hydrogeologic setting of the site.

Monitoring wells MW-2 and MW-8 (see Figure 2) were purged of approximately 18 gallons of water using an electric (12 volt D.C.) purge pump. Samples were than collected by bailer and placed in 40 ml VOAS that were supplied by the laboratory and preserved with HCl. The electric pump present in RW-1 was used to purge the extraction well. The flow meter at the well head was not operating correcting so the system was run for approximately one hour with an estimated purging of at least 80 gallons. The water sample from RW-1 was collected from a sampling port located at the well head.

The water samples were maintained in a cooled ice chest and transported to a State-certified Laboratory for analysis under chain-of-custody control. The certified laboratory report and chain-of-custody documentation is included in Appendix A. The results of the analysis are summarized below.

WELL	TPH AS	BENZENE	TOLUENE	ETHYL-	TOTAL
NUMBER	GASOLINE		,	BENZENE	XYLENES
MW-2	56	0.84	3.0	0.61	2.9
MW-8	<50	0.65	2.6	<0.5	2.7
RW-1	<50	4.2	<0.5	0.73	<0.5

The results from previous analysis of the three wells as taken from Lowney Associates (1995) are included in Appendix B to serve as a comparison.

The results of the analysis indicated that only a very minor level of contamination remains in the groundwater at the site. It is appropriate to discuss possible site closure with representatives of Alameda County prior to any additional site investigations. Destruction of wells that are no longer required for site monitoring should be considered.

Should you have any questions, please contact the undersigned or Mr. Gary King who is serving as a coordinator for this phase of the investigations.

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John N. Alt, CEG No. 1136

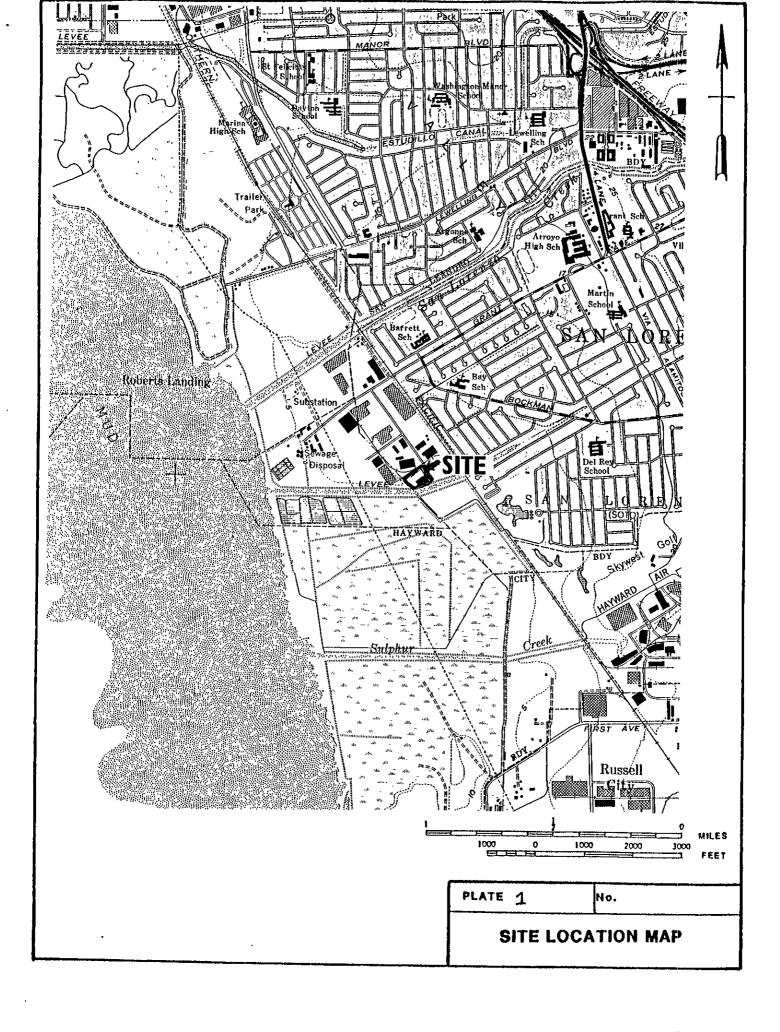
Epigene International

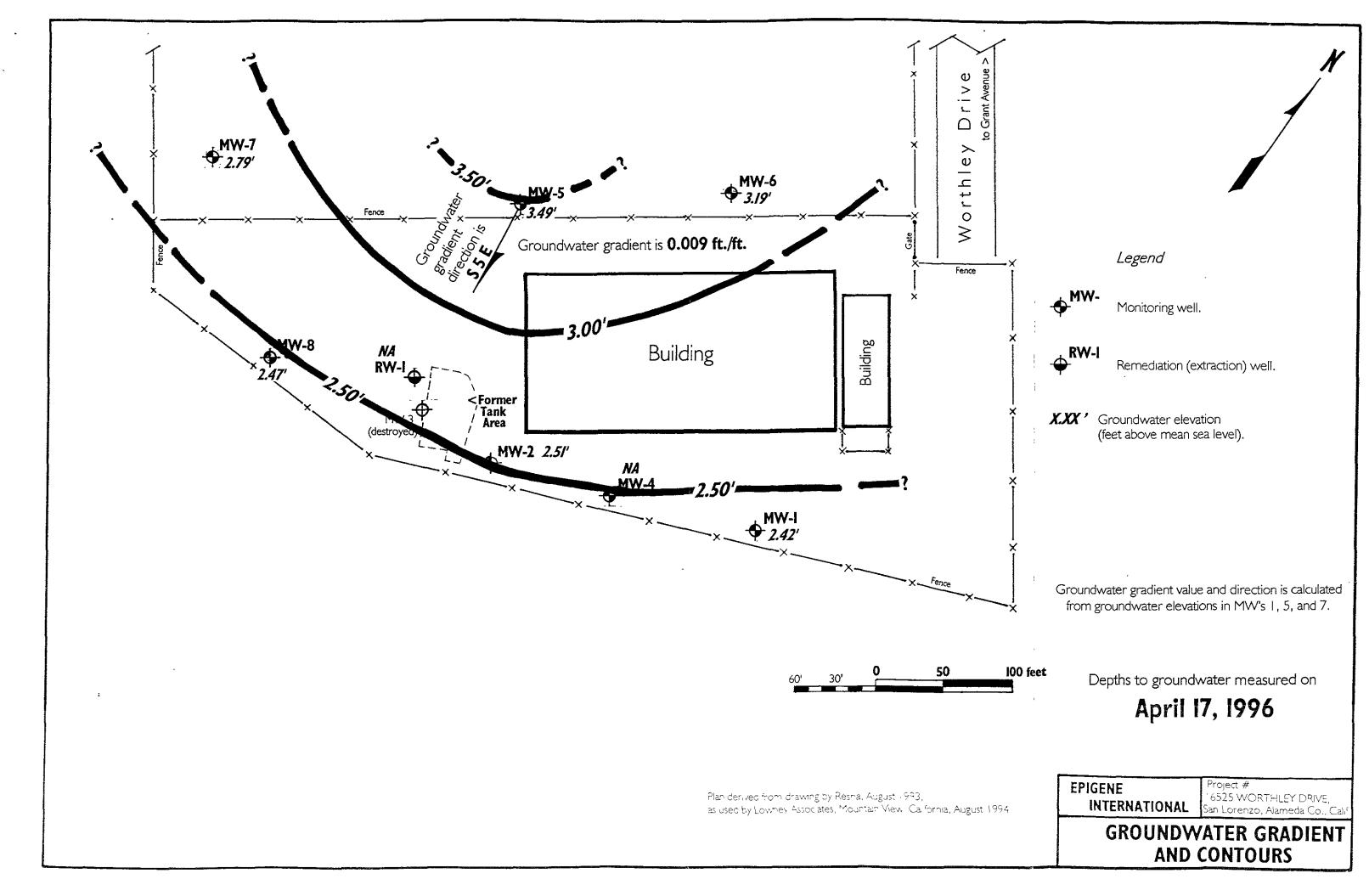
Sincere

JOHN N. ALT Nº 1136

CERTIFIED ENGINEERING GEOLOGIST

OF CALIFU





### APPENDIX A LABORATORY REPORT

Epigene International 38750 Paseo Padre Pkwy, # A11 Fremont, CA 94536		Client		: Worthley	Date Sampled: 04/17/96				
		Lorenzo	·		Date Received: 04/19/96  Date Extracted: 04/19/96				
		Client C	ontact: John	Alt					
		Client P	.O:		Date Analyzed: 04/19/96				
EPA methods	Gasoline Range 5030, modified 8015, and 8	( <b>C6-C12</b> ) 020 or 602; (	Volatile Hy	drocarbons CB (SF Bay R	as Gasolin	e*, with BT	EX*		
Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	Benzene	Toluene	Ethylben- zene	thylben- Xydenes		
63370	RW-1	w	ND	4.2	ND	0.73	ND	98	
63371	MW-2	w	56,a	0.84	3.0	0.61	2.9	96	
63372	MW-8	w	ND	0.65	2.6	ND	2.7	95	
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Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	0.5	0.5	0.5	0.5		
		S	1.0 mg/kg	0.005	0.005	0.005	0.005		

<sup>\*</sup> water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

Edward Hamilton, Lab Director

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak

<sup>+</sup> The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

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#### CHAIN OF CUSTODY

Laboratory:	McCampbell Analytical	
	110 2nd Avenue South, D-7	
	Pacheco, California 94553	<del></del>
	telephone: (510) 798-1620	FAX: (510) 798-1622
Contact:	Ed Hamilton	(510) 770-1622

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#### **Epigene International**

CONSULTING GEOLOGISTS

38750 Paseo Padre Parkway, Suita A-II Fremont, California, 94636

Shown as

Business: (510) 791-1986 FAX: (510) 791-3306

telephone: (510) 798-1620 FAX: (510) 798-1622					C	Project no.					Sampler: JNA 6K				
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# APPENDIX B RESULTS OF PREVIOUS ANALYSIS LOWNEY ASSOCIATES (1995)

TABLE 2. Laboratory Analysis of Ground Water Samples (concentrations in ppb)

Well Number	Date	ТРИg	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW-2	07/14/87	110	1.2	1.9	***	2
	11/24/87	3,600	82	47	_	13
	02/29/88	800	ND	ND	_	ND
	05/25/88	250	ND	ND	_	ND
	08/10/88	260	ND	ND		ND
	11/29/88	870	9.	ND	1	1
	02/07/89	710	16	ND	ND	ND
	05/12/89	260	2.8	0.76	1.3	3
	08/04/89	360	ND	ND	ND	0.48
	11/14/89	85	ND	3.5	0.36	2.5
	02/22/90	120	ND	ND	1.5	0.55
	05/17/90	240	ND	ND	ND	ND
	08/17/90	130	ND	2.9	1.2	0.68
	11/06/90	170	0.37	1.2	2	1.5
	02/01/91	57	ND	ND	ND	0.73
	05/01/91	220	1.5	0.42	0.43	0.54
	08/08/91	710	4.1	0.84	ND	0.71
	11/15/91	630	2.3	ND	3.1	0.86
	02/12/92	580	5.9	1.2	0.52	ND
	05/21/92	<b>7</b> 90	26	5.4	ND	ND
	11/13/92	230	ND	ND	ND	ND
	02/24/93	400	17	ND	ND	ND
	05/28/93	110	< 0.50	<0.50	<0.50	<0.50
	08/20/93	1,000	<0.50	0.75	1.1	5.4
	11/30/93	590	< 0.50	<0.50	3.8	2.3
	04/08/94	480	5.2	<0.50	< 0.50	<0.50
	08/08/94	330	< 0.50	<0.50	<0.50	<0.50
	08/23/95	160	<0.50	0.68	<0.50	0.98
MW-8	08/23/95	<50	<0.50	<0.50	<0.50	<0.50

continued

TABLE 2. Laboratory Analysis of Ground Water Samples (concentrations in ppb) (continued)

Well Number	Date	ТРИg	Benzene	Toluene	Ethyl- benzene	Total Xylenes
RW-1	11/28/89	3,200	<50	<100	<100	<100
	01/09/90	1,300	150	15	100	170
	01/16/91	78	17.0	2.7	7.7	1.3
	04/20/91	<30	<0.30	<0.30	< 0.30	< 0.30
	05/01/91	160	40	` 0.7 <del>9</del>	14	6.1
	05/24/91	<30	<0.30	< 0.30	< 0.30	< 0.30
	06/14/91	57	12	< 0.30	4.3	0.84
	07/03/91	<30	<0.30	< 0.30	< 0.30	< 0.30
	07/22/91	18	<0.30	2.7	0.4	< 0.30
	08/08/91	89	41	0.31	4.6	0.73
	11/15/91	140	41	< 0.30	1.3	0.44
	12/18/91	<50	12	<0.50	0.78	<0.50
	02/12/92	260	78	.073	6.6	8.2
	03/06/92	480	81	1.2	21	21
	04/02/92	300	52	1.2	13	15
	05/21/92	57	20	ND	1.7	0.85
	06/30/92	<50	7.7	<0.50	<0.50	< 0.50
	07/17/92	79	7.4	< 0.50	1.2	1.4
	09/01/92	<50	4.2	< 0.50	<0.50	< 0.50
	11/13/92	ND	ND	ND	ND	ND
	01/08/93	ND	8	ND	0.78	0.59
	01/29/93	64	22	ND	4.8	3.7
	03/18/93	2,400	330	3.3	51	17
	04/22/93	<50	13	<0.50	1.5	< 0.50
	05/28/93	<50	0.76	<0.50	<0.50	<0.50
	08/20/93	57	16	< 0.50	0.70	1.92
	09/15/93	<50	1.5	< 0.50	< 0.50	<0.50
	10/08/93	<50	<0.50	<0.50	0.50	<0.50
	10/26/93	<50	<0.50	<0.50	0.50	<0.50
	12/16/93	<50	0.73	2.6	1.1	<0.50
	04/08/94	130	15	1.4	1.9	1.9
	08/08/94	110	25	<0.50	0.86	3.2
	08/23/95	75	12	<0.50	1.8	3.5

no data obtained not detected