

STID 3789



May 21, 1993

Ms. Susan Hugo
Alameda County Health Care Services
Division of Hazardous Waste Materials
80 Swan Way
Oakland, California 94612

GROUNDWATER MONITORING, 1410 64TH STREET, EMERYVILLE, CALIFORNIA

Dear Ms. Hugo:

SEACOR is pleased to submit this letter summarizing the six month monitoring program conducted at the property located at 1410 64th Street, Emeryville, California (The Site) on behalf of Mission Taylor Properties.

SEACOR collected monthly water level measurements from the three Site groundwater monitoring wells, TMW-1, TMW-2, and TMW-3, from October 1992 through March 1993. Groundwater samples from the monitoring wells were collected on October 6, 1992 and January 4, 1993, and analyzed for total petroleum hydrocarbons as gasoline, benzene, toluene, xylene and ethylbenzene.

A collection of all the historical groundwater elevation data is listed on Table 1. A list of historical analytical results for groundwater samples from the Site monitoring wells is shown on Table 2. Copies of the laboratory reports for the October 1992 and January 1993 samplings are attached.

A review of the gradient directions recorded during groundwater monitoring activities indicates the groundwater flow direction to fluctuate from northwest to south, towards monitoring wells TMW-2 and TMW-3. The historical analytical data indicates the presence of gasoline, benzene, and ethylbenzene in upgradient monitoring well TMW-1. This suggests a possible upgradient source for the detected chemical compounds. Hydrocarbons have not been detected in the downgradient monitoring well TM-3.

It has been a pleasure working with you on this project. If you have any questions, or require additional information, please give me a call.

Sincerely yours,

Science & Engineering Analysis Corporation

Jolynn Sheldon
Senior Geologist

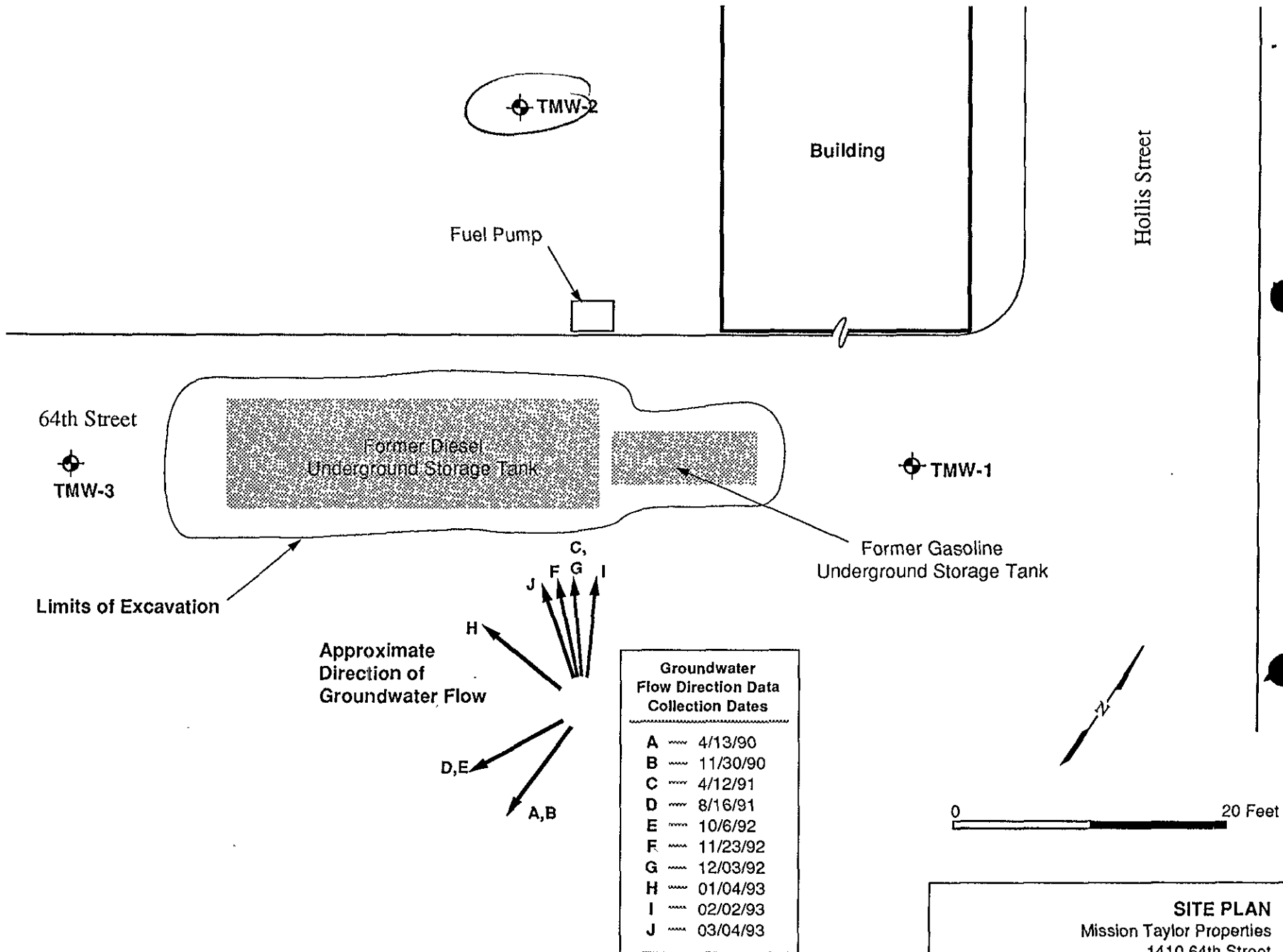
Attachments

cc: Susan Lowenberg

042293.LTR
50051-001-01

TABLE 2
MISSION TAYLOR PROPERTIES
SUMMARY OF GROUNDWATER ELEVATIONS
 1410 - 64th Street
 Emeryville, California

Monitoring Well	Total Well Depth (Top of PVC)	Elevation (Top of PVC)	Date	Depth-to-Water	Groundwater Elevation	
TMW-2	16.35	15.36	04/25/90	2.59	}	12.77
			11/30/90	2.57		12.79
			04/29/91	2.78		12.58
			08/16/91	2.71		12.65
			10/06/92	3.35		12.48
			11/23/92	3.03		12.01
			12/03/92	2.44		12.33
			01/04/93	3.16		12.92
			02/02/93	2.63		12.20
			03/04/93			12.73
TMW-3	15.53	15.14	04/25/90	2.54	12.60	
			11/30/90	2.27	12.87	
			04/29/91	2.36	12.78	
			08/16/91	2.61	12.53	
			10/06/92	2.78	12.36	
			11/23/92	2.73	12.41	
			12/03/92	2.62	12.52	
			01/04/93	2.28	12.86	
			02/02/93	2.46	12.68	
			03/04/93	2.28	12.86	



Groundwater Flow Direction Data Collection Dates	
A	4/13/90
B	11/30/90
C	4/12/91
D	8/16/91
E	10/6/92
F	11/23/92
G	12/03/92
H	01/04/93
I	02/02/93
J	03/04/93

SITE PLAN
 Mission Taylor Properties
 1410 64th Street
 Emeryville, California
FIGURE 1

TABLE 1
MISSION TAYLOR PROPERTIES
ANALYTICAL RESULTS
 1410 64th Street
 Emeryville, California

Monitoring Well #	Date	Chemical Concentrations - Micrograms/Liter ($\mu\text{g}/\ell$)					
		TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total xylene
TMW-1	04/13/90	560	ND	10	ND	10	30
	11/30/90	ND	ND	3.2	ND	3.2	ND
	✓ 04/12/91	150	NA	3.2	ND	2.0	ND
	✓ 08/16/91	150	NA	4.8	ND	3.7	2.6
	10/06/92	230	NA	6.1	ND	3.1	ND
	01/04/93	430	NA	9.9	ND	ND	ND

TABLE 1
MISSION TAYLOR PROPERTIES
ANALYTICAL RESULTS
 1410 64th Street
 Emeryville, California

Monitoring Well #	Date	Chemical Concentrations - Micrograms/Liter ($\mu\text{g}/\text{l}$)					
		TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total xylene
TMW-2	04/13/90	140	ND	10	ND	2.0	7.0
	11/30/90	ND	ND	3.8	ND	ND	ND
	04/12/91	160	NA	16	ND	1.7	ND
	08/16/91	130	NA	7.7	ND	1.3	1.1
	10/06/92	170	NA	18	ND	2.5	ND
	01/04/93	260	NA	26	ND	2.0	ND

report date 5/29/91 →

TABLE 1
MISSION TAYLOR PROPERTIES
ANALYTICAL RESULTS
 1410 64th Street
 Emeryville, California

Monitoring Well #	Date	Chemical Concentrations - Micrograms/Liter ($\mu\text{g}/\ell$)					
		TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total xylene
TMW-3	04/13/90	ND	ND	ND	ND	ND	ND
	11/30/90	ND	ND	ND	ND	ND	ND
	04/12/91	ND	NA	ND	ND	ND	ND
	08/16/91	ND	NA	ND	ND	ND	ND
	10/06/92	ND	NA	ND	ND	ND	ND
	01/04/93	ND	NA	ND	ND	ND	ND

ND = Not detected at or above the reporting limit
 NA = Not analyzed
 TPHg = Total petroleum hydrocarbons as gasoline
 TPHd = Total petroleum hydrocarbons as diesel

TABLE 2
MISSION TAYLOR PROPERTIES
SUMMARY OF GROUNDWATER ELEVATIONS
 1410 - 64th Street
 Emeryville, California

Monitoring Well	Total Well Depth (Top of PVC)	Elevation (Top of PVC)	Date	Depth-to-Water	Groundwater Elevation
TMW-1	14.69	16.34	04/25/90	3.48	12.86
			11/30/90	3.57	12.77
			04/29/91	3.41	12.93
			08/16/91	3.61	12.73
			10/06/92	3.78	12.56
			11/23/92	3.58	12.76
			12/03/92	3.58	12.76
			01/04/93	3.16	13.18
			02/02/93	3.70	12.64
			03/04/93	3.24	13.10