ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

StID 3732

August 20, 1999

Mr. Kaz Katayama, President
Moller Ranch LP
c/o Boulevard Development
856 North Commerce
Orange, CA 92667

Re: Fuel Leak Site Case Closure for 5710 Foothill Road (Lott 99), Pleasanton, CA

Dear Mr. Katayama:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division 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.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- up to 75ppm TPH as gasoline and 0.22ppm benzene exists in soil beneath the site;
- up to 17,000ppb TPHg and 140ppb benzene exists in groundwater beneath the site; and,
- a site safety plan must be prepared for construction workers in the event of excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.

If you have any questions, please contact me at (510) 567-6762.

eva chu
Hazardous Materials Specialist

enlosures: 1. Case Closure Letter 2. Case Closure Summary

c: Danielle Stefani, Livermore-Pleasanton Fire Department
files (moller16)

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REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3732 - 5710 Foothill Road (Tract6618, Lot 99), Pleasanton, CA
(1-350 gallons tank removed in May 1990)

August 24, 1999

Mr. Kaz Katayama, President
Moller Ranch LP
c/o Boulevard Development
856 North Commerce
Orange, CA 92667

Dear Mr. Katayama:

This letter confirms the completion of site investigation and remedial action for the underground storage tank 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 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, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Richard Pantages, Chief of Division of Environmental Protection
Chuck Headlee, RWQCB
Dave Deaner, SWRCB
Danielle Stefani, Livermore-Pleasanton Fire Department
files-ec (moller15)

RB#01-1011 Headlee

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: June 30, 1999

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **Eva Chu** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **Moller Ranch**
Site facility address: **5710 Foothill Road, Pleasanton, CA**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3732**
URF filing date: **2/26/90** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Hamid Taeb **Boulevard Development** **856 North Commerce** **Orange, CA 92667**	**Don Wallace** **155 Sea Cliff Drive East** **Aptos, CA 95003**	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	350	Unknown	Removed	5/1990

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Leaking UST (hole on bottom of UST)**
Site characterization complete? **YES**
Date approved by oversight agency: **5/5/99**
Monitoring Wells installed? **Yes** Number: **6**
Proper screened interval? **Yes, 5 to 25'bgs in well MW-1**
Highest GW depth below ground surface: **8.67'** Lowest depth: **15.67'bgs**
Flow direction: **N, NE**
Most sensitive current use: **Residential**
Are drinking water wells affected? **No** Aquifer name: **NA**
Is surface water affected? **No** Nearest affected SW name: **NA**
Off-site beneficial use impacts (addresses/locations): **None**
Report(s) on file? **YES** Where is report(s) filed? **Alameda County, 1131 Harbor Bay Pkwy, Alameda, CA 94502** and **Livermore Fire Dept, 4550 East Ave, Livermore, CA 94550**

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	1 UST	Unknown disposal site	5/90
Soil	600 cy	Aerated and re-used to backfill excavation	5/95

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before[1]	After[2]	Before[3]	After[4]
TPH (Gas)	190	75	29,000	17,000
TPH (Diesel)	270	8	24,000	6,300[5]
Benzene	3.3	0.22	11,000	140
Toluene	13	0.6	220	130
Ethylbenzene	3.7	0.5	1,600	1,600
Xylenes	18	0.6	1,100	96
MTBE	NA	NA	NA	<5
Other EDB	.044	NA	NA	ND[6]
1,2,DCA		0.05	590	ND[6]
Organic lead	ND			

NOTE:
1 soil samples collected from UST pit at time of removal, 5/90
2 soil samples collected after overexcavation, 9/94
3 historical maximum concentrations in well MW-1, 1993-1994
4 recent hydropunch advanced downgradient of former UST, 4/98
5 detected in well MW-1 before it was decommissioned, 9/94
6 results of groundwater sample from well MW-5 and MW-6, 4/99

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? _____

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? _____

Does corrective action protect public health for current land use? **YES**

Site management requirements: **A site safety plan must be prepared for construction workers in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination.**

Should corrective action be reviewed if land use changes? **YES**

Monitoring wells Decommissioned: **Yes, one, and others to be decommissioned upon site closure**

Number Decommissioned: **1** Number Retained: **5**

List enforcement actions taken:

List enforcement actions rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: Eva Chu Date: 7/13/99

Reviewed by

Name: **Barney Chan** Title: **Haz Mat Specialist**

Signature: Barney Chan Date: 6/30/99

Name: **Thomas Peacock** Title: **Supervisor**

Signature: Thomas Peacock Date: 7-13-99

VI. RWQCB NOTIFICATION

Date Submitted to RB: 7/14/99 RB Response:

RWQCB Staff Name: **Chuck Headlee** Title: **EG**

Signature: Chuck Headlee Date: 8/2/99

VII. ADDITIONAL COMMENTS, DATA, ETC.

The Moller Property is 198 acres in size. 33 of the 198 acres were recently subdivided into 99 residential units. An underground storage tank was located near the base of the northeast facing slope just off of Foothill Boulevard on Lot 99 (Old Lot 1A). Gold Creek is a seasonal creek, which flows from the west to east across the adjoining property to the north of the Moller Property and approximately 300' to the northeast of the UST site.
(See Fig 1 and 2)

A geologic investigation was performed in February 1990 where an exploratory trench, T-11, was excavated. This trench was approximately 150' to 200' from the onsite residence and the UST. Petroleum hydrocarbon impacted soil was noted in the east end of the trench at ~7' to 8'bgs. (See Fig 3)

In May 1990 a 350 gallon UST, located adjacent to the onsite residence, was removed. A ½" diameter hole was noted on the tank bottom. Hydrocarbon odor and soil staining was noted from the native soil below the tank. Soil samples were collected from the pipeline trench (S-1 and S-2) and in the UST pit (S-3, S-4, and S-5). Soil samples S-3 and S-4 were collected 1' below the former UST, and soil S-5 was from 4' below the UST. The soil samples were analyzed for TPHg, BTEX, organic lead and ethylene dibromide (EDB). Soil samples from the tank pit bottom contained elevated levels of petroleum hydrocarbons. (See Table 1)

A total of five groundwater monitoring wells (MW-1 through MW-5) were installed in July/August 1990 in the vicinity of the former UST and the exploratory trench. Hydrocarbon vapors were detected in each boring. Soil and groundwater samples from the borings were analyzed for TPHg, TPHd, and BTEX. Analysis for HVOC was added since odors detected during field exploration appeared to be different than odors typical of gasoline and diesel fuels. Analytical results revealed 190ppm TPHd in soil from boring B-5/MW-5 at 11'bgs. Trace or non-detectable levels were in the other soil samples. The groundwater sample from boring B-1/MW-1 contained up to 3,400ppb TPHd, 16,000ppb TPHg, 3,000ppb benzene and 590ppb 1,2-DCA. In addition, low levels of 1,2-DCA were identified in groundwater from B-3/MW-3 and B-4/MW-4. (See Fig 4, Tables 2 and 5)

In September 1990 a soil gas survey was performed. A total of 41 soil gas probes (GP-1 through GP-41) were performed by extracting vapor from the unsaturated soil and bedrock materials at depths ranging from 4' to 18'bgs. Most of the samples were from 4'bgs. Relatively high levels of TPHg and BTEX constituents were detected in soil gas probes GP-1, GP-4, GP-11, GP-19, GP-20, and GP-33 (see Fig 3).

In May 1993 well MW-6 was installed offsite, downgradient, and ~90' northwest of well MW-5 (see Fig 4). Well MW-6 was completed to 26'bgs. Soil samples were collected and screened with an OVM. No readings were registered on the OVM. Two soil samples were submitted for laboratory analysis for TPHd, TPHg, BTEX and HVOCs. None of the analytes sought were detected, except for 28ppb toluene. Groundwater was not encountered and did not accumulate in the boring at this time.

In September 1994 approximately 500 cy of contaminated soil was excavated from three locations previously identified in the soil gas study to be impacted by VOCs (Area 1 is by the former UST, Area 2 by the former fuel pump, and Area 3 by an area with obvious hydrocarbon contamination). Area 2 required additional overexcavation, removing another 100cy of soil in October 1994. Confirmatory soil samples collected after overexcavation did not exceed 100ppm TPHg. Groundwater monitoring well MW-1 was destroyed during overexcavation activities. The stockpiled soil was aerated and subsequently reused to backfill the pits. When the site was graded, (in preparation for the housing development), another four feet of soil was placed over the former excavations/parcel. (See Fig 5, Table 3)

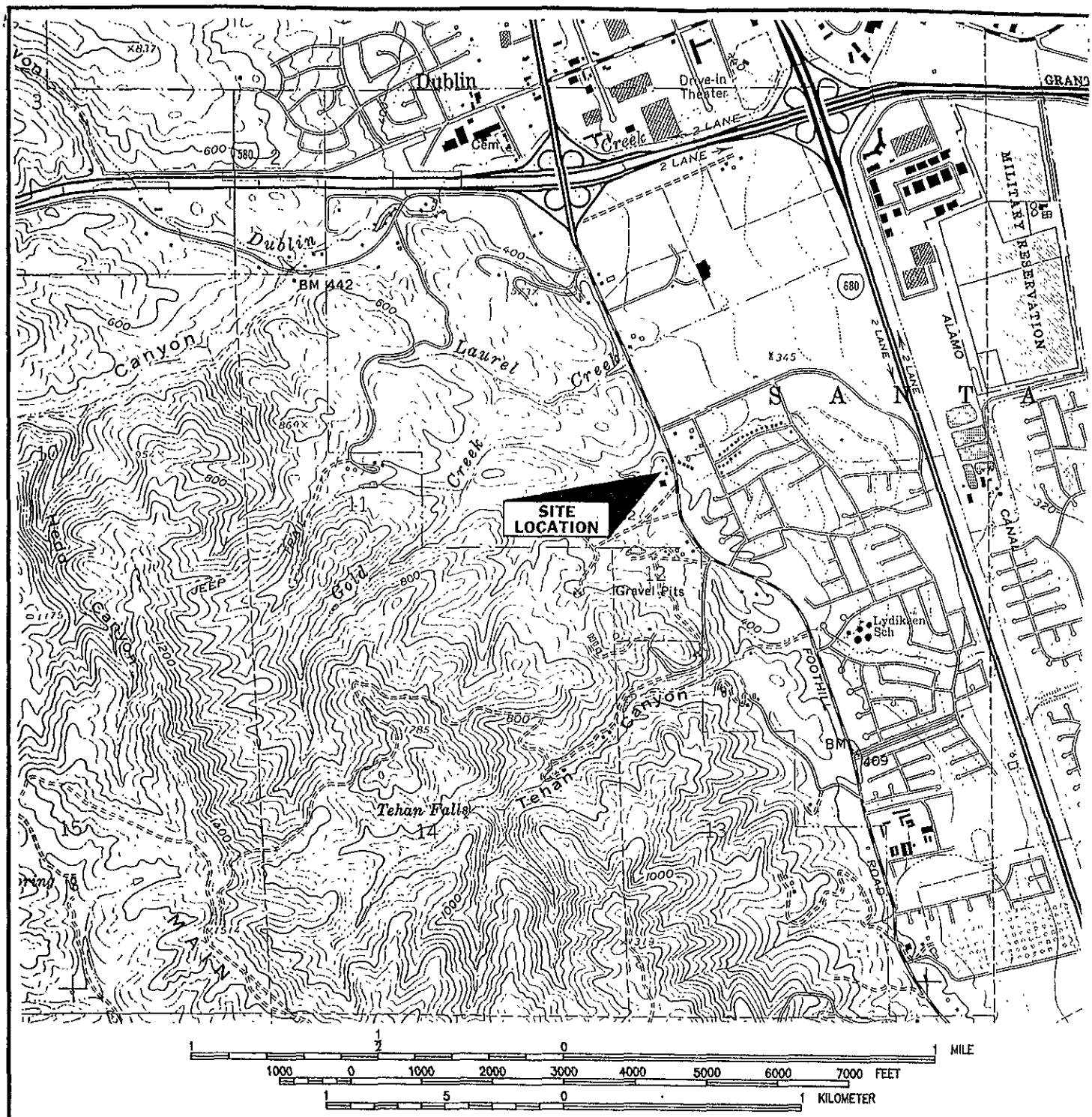
In April 1998 four soil borings (CB-1 through CB-4) were advanced to further assess groundwater quality downgradient of the former UST after contaminated soil was excavated. Boring CB-1 was located immediately dowgradient of abandoned well MW-1. Borings CB-2, CB-3, and CB-4 were located in the vicinity of MW-5 where previous soil vapor investigation results indicated the presence of hydrocarbons in soil vapor. Water samples were analyzed for TPHg, BTEX, and MTBE. Low levels of TPHg and BTEX were still identified in groundwater. A maximum of 3,400ppb TPHg and 140ppb benzene was detected in boring CB-1, near the former UST. In the vicinity of well MW-5, boring CB-3 (to 15'bgs) contained up to 17,000ppb TPHg, and 12, 130, 1600, and 47ppb BTEX, respectively. (See Fig 6, Table 4)

In April and May 1999, water samples were collected from well MW-5 for HVOC analysis and from well MW-6 for TPHg, TPHd, BTEX, MTBE, and EDB analyses. None of these analytes were detected above the laboratory detection limits (see Tables 5A and 5B). Residual soil and groundwater contamination remain in the vicinity of the former UST and near MW-5, but the plume does not extend beyond well MW-6. Its potential impact to human health was evaluated with a RBCA Tier 2 risk assessment.

Ecological risk for Gold Creek was also evaluated. Chemicals of concern, which were evaluated, included BTEX and 1,2,DCA. The analysis revealed that site specific target levels were not exceeded. It appears residual soil and groundwater contamination does not pose a risk to human health or to Gold Creek. (See Tables 6, 7, and 8)

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved plume is not migrating;
- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.



Portion of 7.5-Minute Dublin, California Quadrangle Map
United States Department of the Interior
Geological Survey
1961
Photorevised 1980

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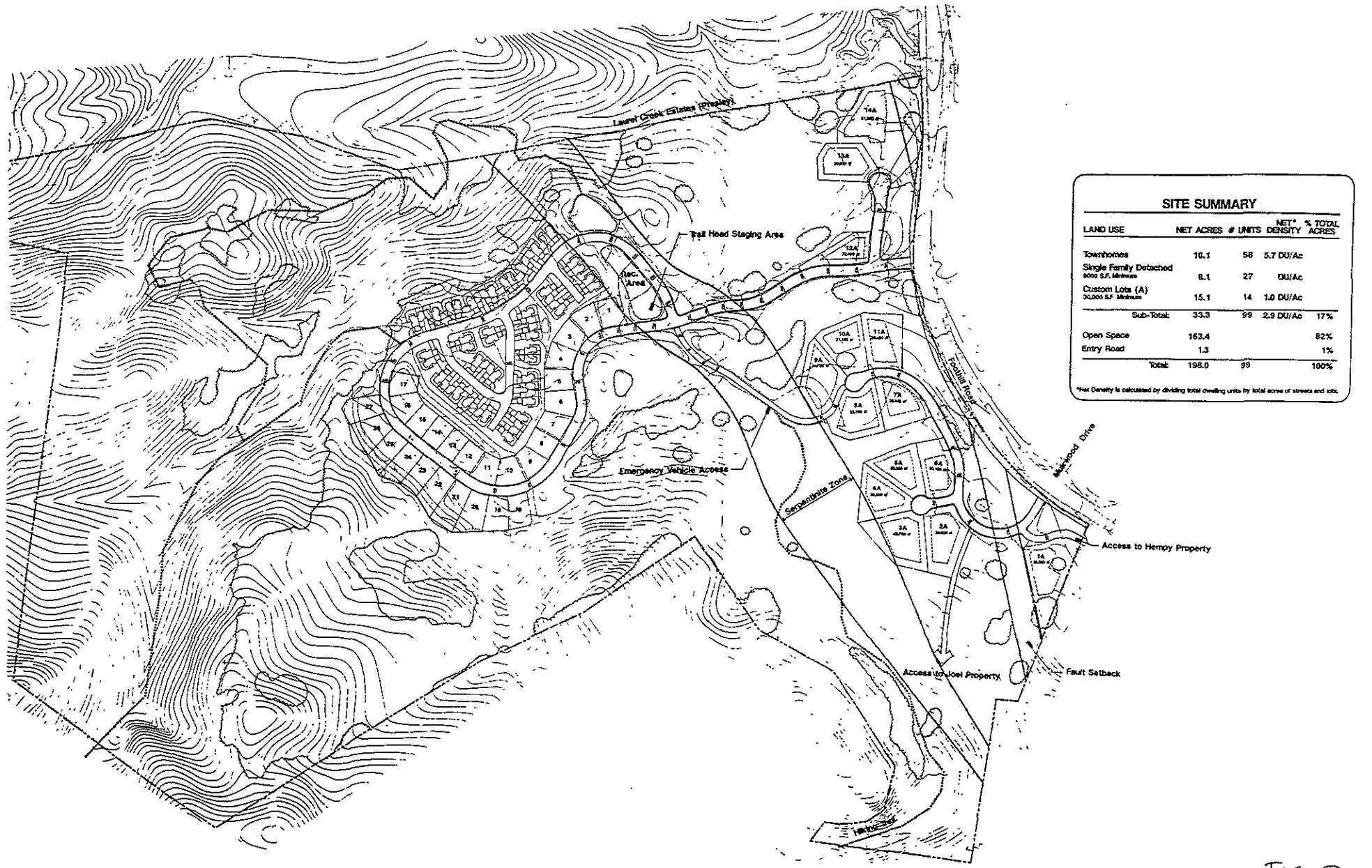
SITE LOCATION MAP Moller Ranch – Lot 99 5598 Legendary Court Pleasanton, California Client: Boulevard Development Clayton Project No. 70-98321.00	Figure 1 98321-70-16	Clayton ENVIRONMENTAL CONSULTANTS



SITE SUMMARY

LAND USE	NET ACRES	# UNITS	NET* DENSITY	% TOTAL ACRES
Townhomes	10.1	58	5.7 DU/Ac	
Single Family Detached 9000 S.F. Minimum	8.1	27	DU/Ac	
Custom Lots (A) 30,000 S.F. Minimum	15.1	14	1.0 DU/Ac	
Sub-Total:	33.3	99	2.9 DU/Ac	17%
Open Space	163.4			82%
Entry Road	1.3			1%
Total:	198.0	99		100%

*Net Density is calculated by dividing total dwelling units by total acres of streets and lots.

Fig 2

MOLLER RANCH
Pleasanton, California

Moller Properties

Bissell & Karn, Inc.

MITIGATED P.U.D. SITE / GRADING PLAN

Attachment 4

Table 1
Analytical Summary for The Soil Samples (Orig Tank Pull Samples)
Collected on May 10, 1990
All Concentrations in Milligrams per Kilogram (mg/kg)

Sample Location	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	TPH-D	EDB	Organic Lead
S-1	ND	ND	ND	ND	ND	ND	ND	ND
S-2	ND	ND	ND	ND	ND	ND	ND	ND
S-3	190	3.3	13	3.7	18	270	0.044	ND
S-5	150	0.87	7.6	3.7	20	110	0.0076	ND

EDB = Ethylene dibromide
ND = Not detected at or above the analytical detection limits

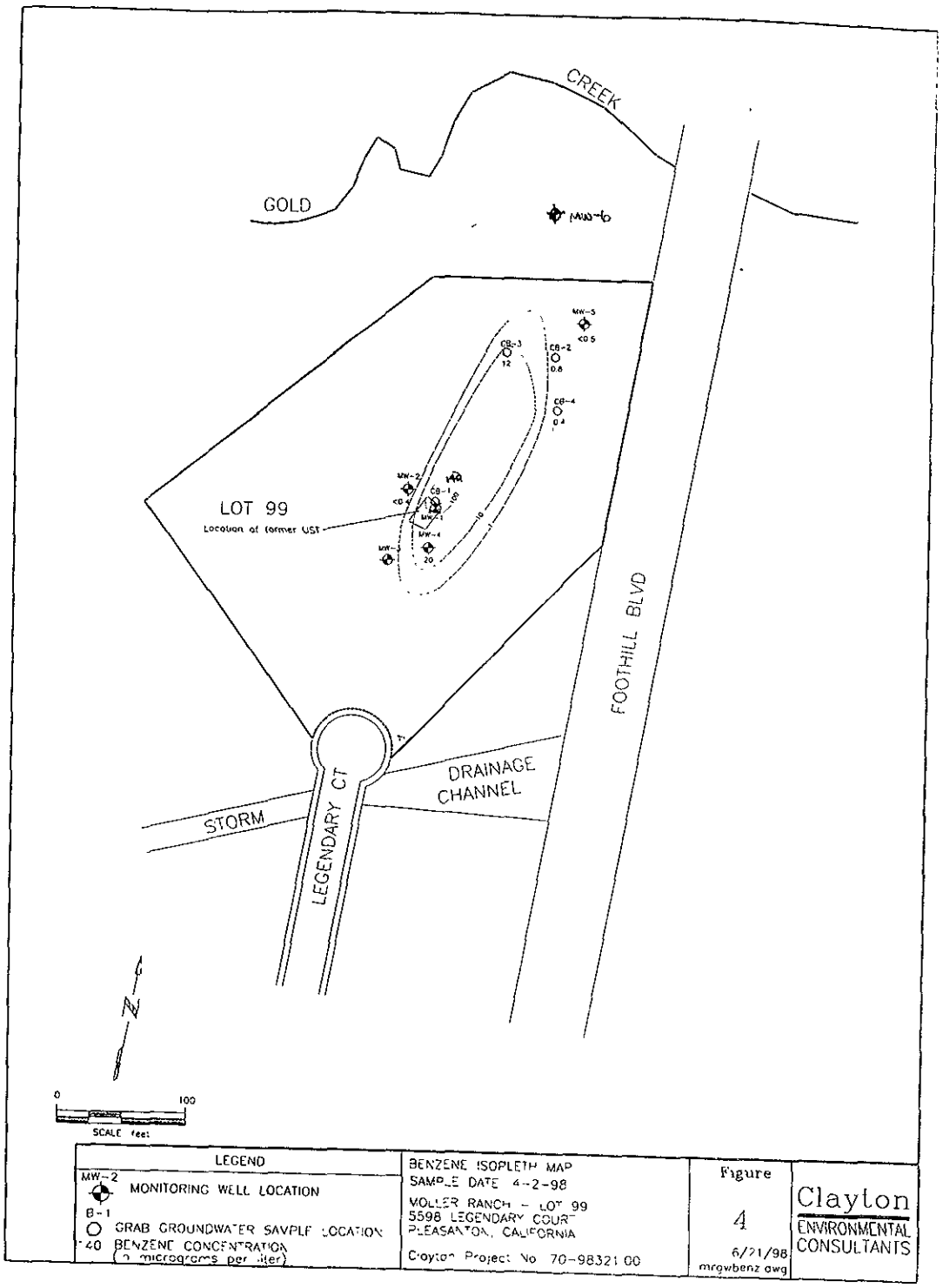

CREEK
GOLD
MW-6
MW-5
<0.5
CB-3
12
CB-2
0.8
CB-4
0.4
MW-2
CB-1
MW-1
MW-4
MW-3
20
LOT 99
Location of former UST
FOOTHILL BLVD
DRAINAGE CHANNEL
STORM
LEGENDARY CT
N
0
100
SCALE feet
LEGEND
MW-2 MONITORING WELL LOCATION
B-1 GRAB GROUNDWATER SAMPLE LOCATION
140 BENZENE CONCENTRATION (micrograms per liter)
BENZENE ISOPLETH MAP
SAMPLE DATE 4-2-98
MOLLER RANCH - LOT 99
5598 LEGENDARY COURT
PLEASANTON, CALIFORNIA
Clayton Project No 70-98321 00
Figure
4
6/21/98
mrgwbenz dwg
Clayton
ENVIRONMENTAL CONSULTANTS

Table 2

Job No. 1613.001

DETECTED CONTAMINANTS

SOIL SAMPLES

Boring	Sample Depth (ft)	TPH-Gasoline	TPH-Diesel	Benzene	Toluene	Xylene	Ethlybenzene
MW-1	10½	3,000	-	-	-	2,700	480
	15½	3,800	-	570	140	3,000	470
	20½	-	-	-	-	970	-
MW-4	10½	3,000	-	-	-	-	-
MW-5	5½	1,300	-	-	-	590	300
	10½	620	490,000	-	-	-	-
	25½	530	-	-	-	-	-

Note: All contaminant levels given in parts per billion (ppb)

PLATE 21

Fig 5

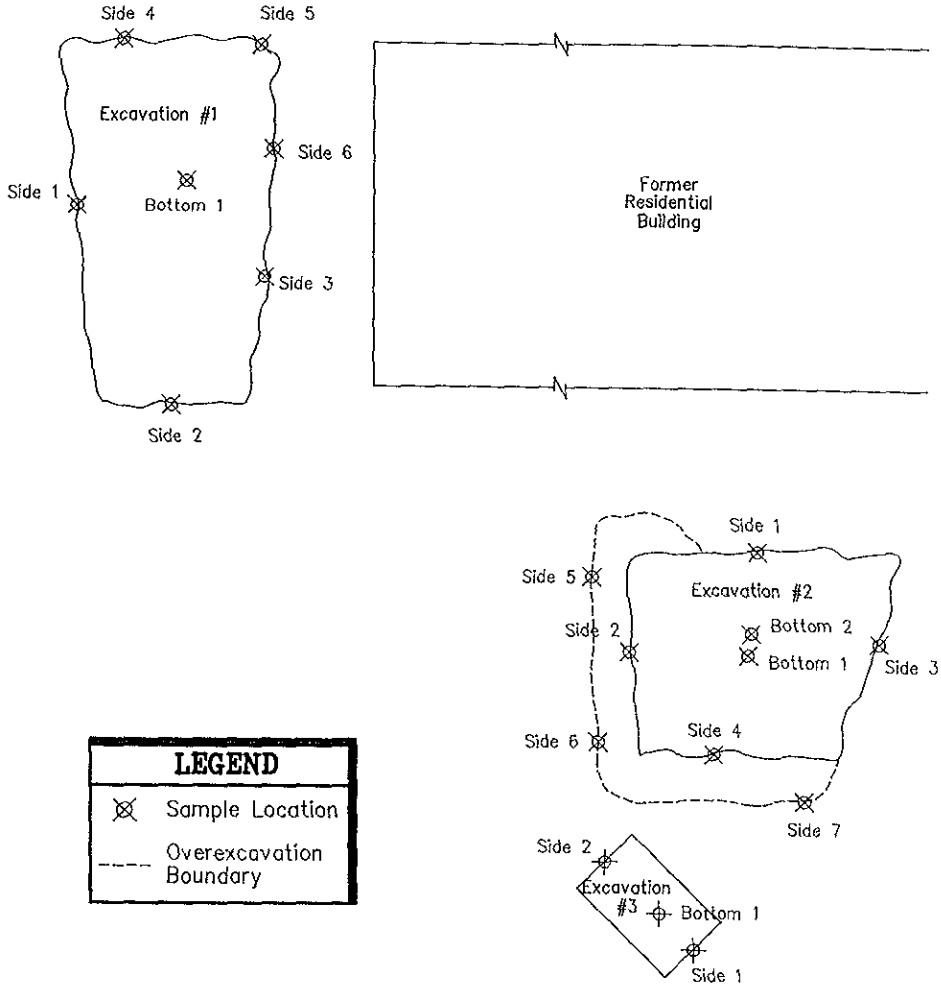

Side 4
Side 5
Excavation #1
Side 6
Side 1
Bottom 1
Side 3
Side 2
Former
Residential
Building
Side 1
Side 5
Excavation #2
Side 2
Bottom 2
Bottom 1
Side 3
Side 6
Side 4
Side 7
Side 2
Excavation
#3
Bottom 1
Side 1
LEGEND
Sample Location
Overexcavation
Boundary
R
Scale: 1" ≅ 10'
Excavation and Sample Locations
MOLLER RANCH
5710 Foothill Road
Pleasanton, California
Clayton Project No. 57893.00
57893-00-18
Clayton
ENVIRONMENTA
CONSULTANT

Table # 3

Analytical Saummary for Soil Samples Collected From
Excavation and Over Excavation Areas in September 1994
All Concnetrations in milligrams per kilograms (mg/kg)

Sample Location	TPH-G	Benzene	Toluene	Ethylbenzene	Xylenes	TPH-D	1,2-DCA
Side 1 (Excavation 1)	ND	ND	ND	ND	ND	ND	NA
Side 2 (Excavation 1)	16	0.19	0.04	0.12	0.15	ND	NA
Side 3 (Excavation 1)	Hold	Hold	Hold	Hold	Hold	Hold	NA
Side 4 (Excavation 1)	ND	ND	ND	ND	ND	4	NA
Side 5 (Excavation 1)	41	0.13	0.02	0.13	0.15	5	NA
Side 6 (Excavation 1)	36	0.07	0.6	0.4	0.6	ND	NA
Bottom 1 (Excavation 1)	ND	ND	ND	ND	ND	ND	ND
Side 1 (Excavation 2)	6.6	0.14	0.05	0.04	0.1	ND	NA
Side 2 (Excavation 2)	1400	3	52	27	134	3	NA
Side 3 (Excavation 2)	4.7	0.02	0.03	0.03	0.13	9	NA
Side 4 (Excavation 2)	200	0.06	0.42	2.2	10.8	6	NA
Bottom 1 (Excavation 2)	ND	ND	ND	ND	ND	5	0.05
Side 5 (Excavation 2)	16	0.22	ND	0.2	ND	6	NA
Side 6 (Excavation 2)	75	0.1	0.1	0.5	0.3	8	NA
Side 7 (Excavation 2)	0.6	0.006	ND	ND	ND	ND	NA
Bottom 2 (Excavation 2)	NA	NA	NA	NA	NA	NA	ND
Side 1 (Excavation 3)	ND	ND	ND	ND	ND	ND	NA
Side 2 (Excavation 3)	ND	ND	ND	ND	ND	ND	NA
Bottom 1 (Excavation 3)	ND	ND	ND	ND	ND	ND	ND

ND = Not detected at or above the analytical detection limits
NA = Not analyzed

[redacted]

Table 4

Petroleum Hydrocarbons Detected in Groundwater
April 2, 1998

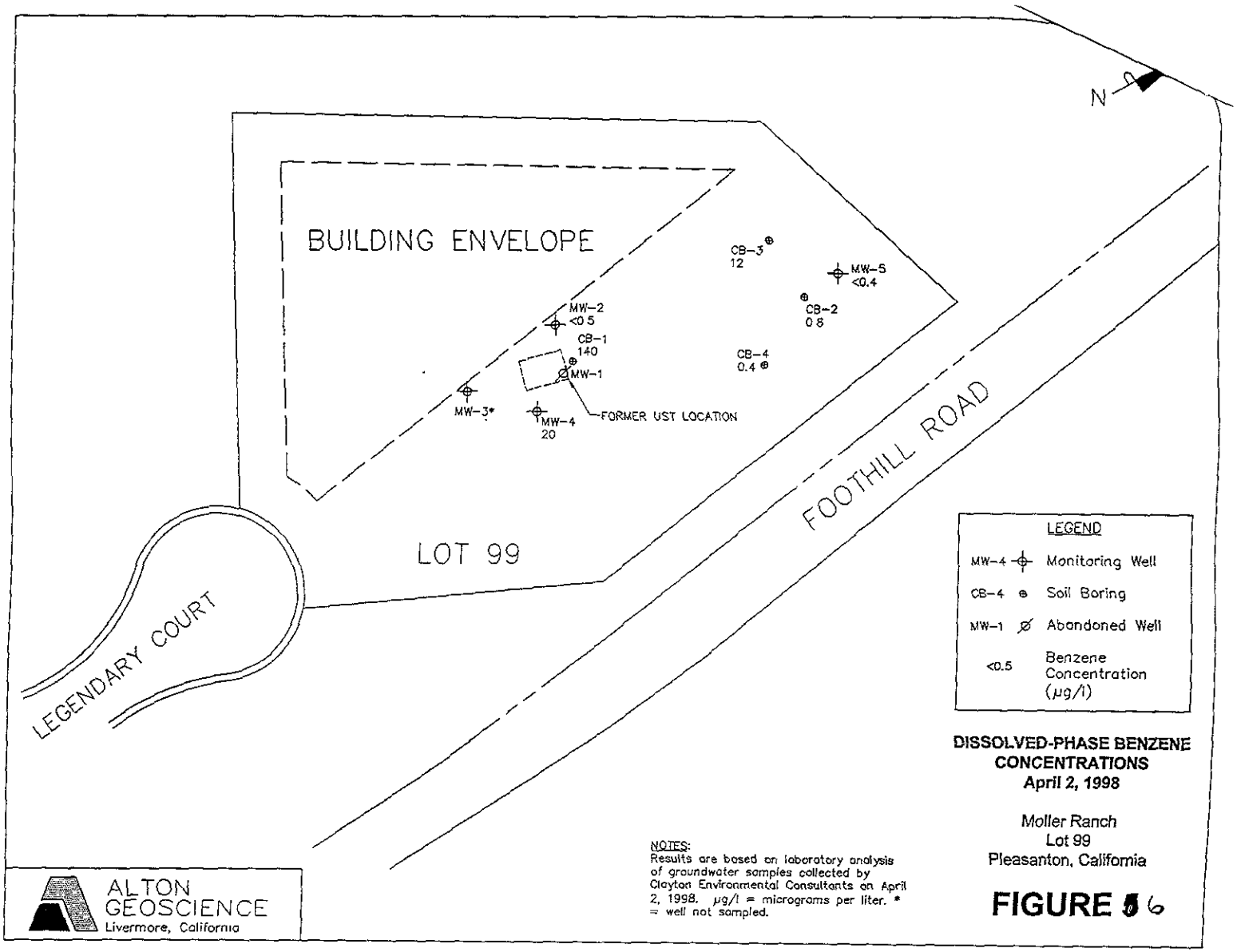
5598 Legendary Court - Moller Ranch Lot 99
Pleasanton, California

Sample Location	Analyte	TPH-G (µg/L)[1]	Benzene (µg/L)	Ethyl Benzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)	MTBE[4] (µg/L)
MW-2		<50	<0.4	<0.3	<0.3	<0.4	<5
MW-4		180	20	7.1	2.9	3.7	<5
MW-5		<50	<0.4	4.6	<0.3	<0.4	<5
CB-1		3,400	140	280	39	96	<30
CB-2		<50	0.8	1.8	2.0	6.1	<5
CB-3		17,000	12	1,600	130	47	<30
CB-4		<50	0.4	0.4	1.1	1.6	<5
	MCL[2]	NE[3]	1	700	150 100 Federal	1,750	NE

Soil borings

Note:

1. All results in micrograms per liter (µg/L).
2. MCL = California Maximum Contaminant Level for Drinking Water (CCR Title 22, Sections 64431 and 64444)
3. NE = Not Established
4. MTBE = Methyl tert-butyl ether



DISSOLVED-PHASE BENZENE CONCENTRATIONS
April 2, 1998

Moller Ranch
Lot 99
Pleasanton, California

NOTES:
Results are based on laboratory analysis of groundwater samples collected by Clayton Environmental Consultants on April 2, 1998. µg/l = micrograms per liter. * = well not sampled.

ALTON GEOSCIENCE
Livermore, California

FIGURE 6

Table 3 5

Summary of Groundwater Analytical Results

5598 Legendary Court - Moller Ranch Lot 99
Pleasanton, California

Sample Location	Sample Date	TPH-D[1] (µg/L)[4]	TPH-G[2] (µg/L)	Benzene (µg/L)	EthylBenzene (µg/L)	Toluene (µg/L)	Total Xylene (µg/L)	1,2-DCA[3] (µg/L)
MW-1	8/2/90	3,400	16,000	3,000	<90	<80	<100	590
	9/21/92	10,000	16,000	6,500	530	56	200	NA
	12/15/92	2,800	8,500	2,100	180	69	270	270
	3/12/93	3,000	9,900	3,900	680	<48	600	180
	6/22/93	11,000	20,000	9,400	1,600	220	1,100	210
	11/15/93	9,800	22,000	11,000	1,600	110	840	420
	5/11/94	24,000	29,000	4,900	860	54	160	540
	9/1/94	6,300	27,000	6,300	1,100	100	280	300
	9/7/94	Well Destroyed						
MW-2	8/2/90	<50	14	<0.5	<0.5	<0.5	<2	14
	9/21/92	81	<50	<0.5	<0.5	<0.5	<1 5	NA
	3/12/93	<50	<50	<0.5	<0 5	<0 5	<1.5	<2.0
	11/15/93	<50	<50	<0 5	<0.5	<0.5	<1.5	NA
	5/11/94	<50	<50	<0.5	<0.5	<0.5	<1 5	NA
	9/1/94	<50	<50	<0.5	<0.5	<0 5	<1.5	NA
	7/25/95	<50	<50	<0 5	<0.5	<0.5	<1.5	NA
	4/2/98	NA[5]	<50	<0.4	<0.3	<0.3	<0.4	NA
MW-3	8/2/90	<50	260	2 7	8.5	0.79	3.8	5.5
	9/21/92	170	<50	<0.5	<0.5	<0.5	<1.5	NA
	3/12/93	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.0
	11/15/93	690	<50	<0.5	<0.5	<0.5	<1.5	NA
	5/11/94	<50	<50	<0.5	<0.5	<0.5	<1.5	NA
	9/1/94	<50	<50	<0 5	<0.5	<0.5	<1.5	NA

[redacted]

cont. Table 5

Summary of Groundwater Analytical Results

5598 Legendary Court - Moller Ranch Lot 99
Pleasanton, California

Sample Location	Sample Date	TPH-D[1] (µg/L)[4]	TPH-G[2] (µg/L)	Benzene (µg/L)	EthylBenzene (µg/L)	Toluene (µg/L)	Total Xylene (µg/L)	1,2-DCA[3] (µg/L)
MW-4	8/2/90	<50	1,000	190	37	34	75	110
	9/21/92	140	640	360	5.9	<1.7	<5.2	NA
	3/12/93	<50	200	170	<0.5	<0.5	6.0	34
	11/15/93	74	1,000	680	78	<8.4	<23	NA
	5/11/94	80	1,900	320	60	<5.9	<16	NA
	9/1/94	NA	NA	NA	NA	NA	NA	NA
	7/25/95	<50	390	95	<0.5	10	3.2	NA
	4/2/98	NA	180	20	7 1	2.9	3.7	<0.6
MW-5	9/21/92	<50	91	12	14	<0.5	<1.5	NA
	12/15/92	<50	630	86	12	3 3	13	17
	3/12/93	<50	<50	<0.5	<0.5	<0.5	<1.5	3.5
	6/22/93	<50	<50	<0.50	<0.50	<0.50	<1.5	13
	11/15/93	<50	<50	<0.5	<0.5	<0.5	<1.5	NA
	5/11/94	<50	76	0.61	3.9	<0.50	<1.5	NA
	9/1/94	85	59	2	4 9	<0.5	<1.5	NA
	7/25/95	<50	73	0.76	<0.5	5.2	<1.5	NA
	4/2/98	NA	<50	<0 4	4.6	<0.3	<0.4	NA

Table 5A

Client: Geocon Environmental
Attn: Ross White

Client's Project: Mellor Property, #E8001-06-01
Date Received: 04/15/99
Matrix: Water
Units: ug/l

Date Amended: 05/21/99

Lab No.:	Method Blank	34947-001
Client Sample I.D.:	--	MW5
Date Sampled:	--	04/14/99
QC Batch #:	P99VOCW070	P99VOCW070
Date Analyzed:	04/21/99	04/21/99
Analyst Initials:	SMC	SMC
Dilution Factor:	1	1

Analyte	MDL	DLR	Result	DLR	Result
Benzene	0.5	0.5	ND	0.5	ND
Bromodichloromethane	0.5	0.5	ND	0.5	ND
Bromoform	1.0	1.0	ND	1.0	ND
Bromomethane	1.0	1.0	ND	1.0	ND
Carbon tetrachloride	0.5	0.5	ND	0.5	ND
Chlorobenzene	0.5	0.5	ND	0.5	ND
Chloroethane	1.0	1.0	ND	1.0	ND
2-Chloroethyl Vinyl Ether	1.0	1.0	ND	1.0	ND
Chloroform	0.5	0.5	ND	0.5	ND
Chloromethane	1.0	1.0	ND	1.0	ND
1,2-Dichlorobenzene	0.5	0.5	ND	0.5	ND
1,3-Dichlorobenzene	0.5	0.5	ND	0.5	ND
1,4-Dichlorobenzene	0.5	0.5	ND	0.5	ND
Dibromochloromethane	0.5	0.5	ND	0.5	ND
Dichlorodifluoromethane	1.0	1.0	ND	1.0	ND
1,1-Dichloroethane	0.5	0.5	ND	0.5	ND
1,2-Dichloroethane	0.5	0.5	ND	0.5	ND
1,1-Dichloroethene	0.5	0.5	ND	0.5	ND
trans-1,2-Dichloroethene	0.5	0.5	ND	0.5	ND
1,2-Dichloropropane	0.5	0.5	ND	0.5	ND
cis-1,3-Dichloropropene	0.5	0.5	ND	0.5	ND
trans-1,3-Dichloropropene	0.5	0.5	ND	0.5	ND
Ethylbenzene	0.5	0.5	ND	0.5	ND
Methylene Chloride	0.5	0.5	ND	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	0.5	ND	0.5	ND
Tetrachloroethene	0.5	0.5	ND	0.5	ND
Toluene	0.5	0.5	ND	0.5	ND
1,1,1-Trichloroethane	0.5	0.5	ND	0.5	ND
1,1,2-Trichloroethane	0.5	0.5	ND	0.5	ND
Trichloroethene	0.5	0.5	ND	0.5	ND
Trichlorofluoromethane	0.5	0.5	ND	0.5	ND
1,2-Dibromoethane	0.5	0.5	ND	0.5	ND
Vinyl Chloride	1.0	1.0	ND	1.0	ND
Xylenes (total)	1.0	1.0	ND	1.0	ND

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
NA = Not Analyzed

Reviewed/Approved By: Val Mallari
Department Supervisor

Date: 5/21/99

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Argon Technology Laboratories
15210 E. 33rd Street
Signal Hill, CA 90807
Tel: 562 989-4045 Fax: 562 989-4040

Attn: Geocon Environmental
Rick Day

Client's Project: Miller Ranch, E8001-06-01
Date Received: 05/21/99
Matrix: Water

METHOD 8015M (Gasoline)/EPA 8020

Lab No.:	Method Blank			35845-001		
Client Sample I.D.:	---			MW-6		
Date Sampled:	---			05/20/893		
QC Batch #:	E998G20W085			E998G20W085		
Date Analyzed:	05/24/99			05/25/99		
Analyst Initials:	DJK			DJK		
Dilution Factor:	1			1		
Analyte	MDL	Units	DLR	Results	DLR	Results
TPH (Gas)	0.05	mg/l	0.05	ND	0.05	ND
Benzene	0.5	µg/l	0.5	ND	0.5	ND
Toluene	0.5	µg/l	0.5	ND	0.5	ND
Ethylbenzene	0.5	µg/l	0.5	ND	0.5	ND
Xylenes (total)	0.5	µg/l	0.5	ND	0.5	ND

MDL = Method Detection Limit
ND = Not Detected. (Below DLR)
DLR = MDL X Dilution Factor
NA = Not analyzed

Reviewed/Approved By: _____
Edgar Morrison
Volatiles Group Leader

Date: 6/3/99

Table 5B

Cont. Table 5B

Client: Geocon Environmental
Attn: Rick Day

QC Batch #: I998015DW265
Date Sampled: 05/20/99
Date Received: 05/21/99
Date Extracted: 05/25/99
Date Analyzed: 05/28/99
Extraction Method: 3510C
Extraction Material: Methylene Chloride

Client's Project: Moller Ranch, E8002-06-01
Matrix: Water
Analyst Initials: JW

Method 8015B (M)/TPH (Diesel)

Lab No.:	Sample ID:	Results, mg/L	DLR, mg/L	Dilution Factor
Method Blank	----	ND	0.2	1.0
35845-001	MW-6	ND	0.2	1.0

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor

Reviewed/Approved By: _____ Date: 6/3/99
Sylvia Chan
Semi Volatiles Group Leader

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Cont. Table 5B

Client: Geocon Environmental
Attn: Rick Day

Client's Project: Motter Ranch, E8002-06-01
Date Received: 05/21/99
Matrix: Water
Units: µg/l

EPA Method 8260B

Lab No.:		Method Blank		35845-001							
Client Sample I.D.:		--		MW-6							
Date Sampled:		--		05/20/99							
QC Batch #:		Q99VOCW101		Q99VOCW101							
Date Analyzed:		05/25/99		05/25/99							
Analyst Initials:		EM		EM							
Dilution Factor:		1		1							
ANALYTE	MDL	DLR	Results	DLR	Results						
1,2-Dibromoethane	5	5	ND	5	ND						

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
NA = Not Analyzed

Reviewed/Approved By: _____ Date 6/8/99
Edgar Morrison
Volatiles Group Leader

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

RBCA SITE ASSESSMENT

Tier 2 Worksheet 9.2

Site Name: Lot 99
Site Location Moller Ranch

Completed By Altoh Geoscience
Date Completed 2/11/1999

SUBSURFACE SOIL SSTL VALUES (> 3.3 FT BGS)

Target Risk (Class A & B) 1 0E-5
Target Risk (Class C) 1 0E-5
Target Hazard Quotient 1 0E+0

☐ MCL exposure limit?
☐ PEL exposure limit?

Calculation Option 2
Groundwater DAF Option Domenico - First Order (Two-directional vert dispersion)

SSTL Results For Complete Exposure Pathways ("x" if Complete)

CONSTITUENTS OF CONCERN		Representative Concentration	X Soil Leaching to Groundwater			X Soil Volatilization to Indoor Air		X Soil Volatilization to Outdoor Air		Applicable SSTL	SSTL Exceeded ?	Required CRF
CAS No.	Name	(mg/kg)	Residential 300 feet	Commercial (on-site)	Regulatory(MCL) 300 feet	Residential (on-site)	Commercial (on-site)	Residential (on-site)	Commercial (on-site)	(mg/kg)	"■" If yes	Only if "yes" left
71-43-2	Benzene	9.4E-2	4.7E+0	NA	NA	4 8E-1	NA	9.3E+1	NA	4.8E-1	☐	<1
107-06-2	Dichloroethane, 1,2-	5 0E-2	2.4E+1	NA	NA	5 2E-1	NA	1.0E+2	NA	5.2E-1	☐	<1
100-41-4	Ethylbenzene	7.1E-2	>Res	NA	NA	>Res	NA	>Res	NA	>Res	☐	<1
108-88-3	Toluene	5.7E-2	>Res	NA	NA	2.3E+2	NA	>Res	NA	2.3E+2	☐	<1
1330-20-7	Xylene (mixed isomers)	1.9E-1	>Res	NA	NA	>Res	NA	>Res	NA	>Res	☐	<1

>Res indicates risk-based target concentration greater than constituent residual saturation value

Software GSI RBCA Spreadsheet Version: 1 0 1

Serial G-123-AZX-456

Table 6

RBCA SITE ASSESSMENT — Tier 2 Worksheet 9.3

Site Name: Lot 99
Site Location: Moller Ranch

Completed By: Alton Geoscience
Date Completed: 2/11/1999

GROUNDWATER SSTL VALUES

Target Risk (Class A & B): 1.0E-5
Target Risk (Class C): 1.0E-5
Target Hazard Quotient: 1.0E+0

☐ MCL exposure limit?
☐ PEL exposure limit?

Calculation Option: 2
Groundwater DAF Option: Domenico - First Order (Two-directional vert. dispersion)

SSTL Results For Complete Exposure Pathways ("x" If Complete)

CONSTITUENTS OF CONCERN		Representative Concentration	X Groundwater Ingestion			X Groundwater Volatilization to Indoor Air		X Groundwater Volatilization to Outdoor Air		Applicable SSTL	SSTL Exceeded ?	Required CRF
CAS No.	Name	(mg/L)	Residential 300 feet	Commercial (on-site)	Regulatory(MCL) 300 feet	Residential (on-site)	Commercial (on-site)	Residential (on-site)	Commercial (on-site)	(mg/L	"■" If yes	Only if "yes" left
71-43-2	Benzene	1.9E-2	1.8E+0	NA	NA	2.9E+0	NA	5.4E+2	NA	1.8E+0	☐	<1
107-06-2	Dichloroethane, 1,2-	3.4E-2	6.8E+0	NA	NA	6.2E+0	NA	1.1E+3	NA	6.2E+0	☐	<1
100-41-4	Ethylbenzene	2.5E-4	>Sol	NA	NA	>Sol	NA	>Sol	NA	>Sol	☐	<1
108-88-3	Toluene	2.5E-3	>Sol	NA	NA	>Sol	NA	>Sol	NA	>Sol	☐	<1
1330-20-7	Xylene (mixed isomers)	2.5E-4	>Sol	NA	NA	>Sol	NA	>Sol	NA	>Sol	☐	<1

>Sol indicates risk-based target concentration greater than constituent solubility

Software: GSI RBCA Spreadsheet
Version: 1.0.1

Serial: G-123-AZX-456

Table 7

Table 8

Ecological Risk Evaluation

In the qualitative risk assessment guidance provided in ASTM Standard E 1739-95, the distance from the source are to an ecologically sensitive receptor is of primary concern. For the Moller Ranch property, the only pathway through which residual COCs could affect an ecologically sensitive receptor is by groundwater transport. The receptor would be Gold Creek located approximately 300 feet downgradient of the former source area.

The following table shows site representative groundwater concentrations compared to California Water Quality Objectives for the COCs. Data do not exist in all categories for all of the COCs.

Comparison of Representative Groundwater Concentrations With Water Quality Objectives

COC	Representative Groundwater Concentration (ug/l)	California Water Quality Objectives (ug/l)			
		Acute Aquatic Toxicity	Chronic Aquatic Toxicity	Non-Cancer Health Effects	Taste and Odor Threshold
Benzene	19	5,300	-	-	170
Toluene	2.5	17,000	-	6,800/200,000	42
Ethylbenzene	0.25	32,000	-	3,100/29,000	29
Xylenes	0.25	-	-	-	17
1,2-DCA	34	118,000	20,000	-	7,000

BORING LOG MW-1

JOB NUMBER: 1613.001 **DATE DRILLED:** 7-30-90

JOB NAME: Moller Property **SURFACE ELEVATION:** 417.03 feet

DRILL RIG: Hollow Stem Auger **DATUM:** Alameda County

SAMPLER TYPE:	DRIVE WEIGHT - LB	HEIGHT OF FALL - IN
2.5 inch I.D. Split Barrel	140	30

BLOWS PER FT.	MOISTURE CONTENT %	DRY UNIT WEIGHT p.c.f.	DEPTH IN FEET	USCS CLASSIFICATION	DESCRIPTION
				CL	SILTY CLAY, brown, wet to moist, very stiff, some fine-grained sand, low plasticity
					SILTSTONE, orange-brown, friable, crushed, thickly bedded, some sand and clay (Livermore Gravels)
50/4"			5		SANDSTONE, mottled, gray and orange-brown, friable, crushed, thinly bedded (Livermore Gravels)
					CONGLOMERATE, orange-brown, friable, crushed, thickly bedded, gravel up to 2 inches in diameter (Livermore Gravels)
					CLAYSTONE, brown, friable, crushed, thinly bedded (Livermore Gravels)
					CONGLOMERATE, fine, orange-brown, friable, crushed, thinly bedded (Livermore Gravels)
75			10		SILTSTONE, orange-brown, friable, crushed, thickly bedded (Livermore Gravels) at 10 feet, petroleum smell
					SANDSTONE, coarse, green-gray, friable, crushed, thinly bedded, stained, strong petroleum smell (Livermore Gravels)
53			15		CLAYSTONE, orange-brown, friable, crushed, green stains in upper 1/2 feet (Livermore Gravels)
					SANDSTONE, coarse, green-gray, friable, crushed, thickly bedded, strong odor, stained (Livermore Gravels)
60			20		SILTSTONE, orange-gray-brown, friable, crushed, thickly bedded, no detectable odor (Livermore Gravels)

PLATE 3

BERLOGAR GEOTECHNICAL CONSULTANTS

BORING LOG MW-2

JOB NUMBER: 1613.001 **DATE DRILLED:** 7-30-90

JOB NAME: Moller Property **SURFACE ELEVATION:** 417.08 feet

DRILL RIG: Hollow Stem Auger **DATUM:** Alameda County

SAMPLER TYPE:	DRIVE WEIGHT – LB	HEIGHT OF FALL – IN
2.5 inch I. D. Split Barrel	140	30

BLOWS PER FT.	MOISTURE CONTENT %	DRY UNIT WEIGHT p.c.f.	DEPTH IN FEET	USCS CLASSIFICATION	DESCRIPTION
				CL/CH	SILTY CLAY, dark brown, moist, very stiff, some fine sand, moderate plasticity
50/4"			5		SILTSTONE, mottled gray and brown, friable, crushed, thickly bedded (Livermore Gravels)
85			10		SANDSTONE, coarse, orange-brown, friable, crushed, thickly bedded (Livermore Gravels)
60/6"			15		
50/6"			20		

PLATE 5

BERLOGAR GEOTECHNICAL CONSULTANTS

BORING LOG MW-3

JOB NUMBER: 1613.001 **DATE DRILLED:** 7-31-90

JOB NAME: Moller Property **SURFACE ELEVATION:** 419.40 feet

DRILL RIG: Hollow Stem Auger **DATUM:** Alameda County

SAMPLER TYPE:	DRIVE WEIGHT - LB	HEIGHT OF FALL - IN
2.5 inch I. D. Split Barrel	140	30

BLOWS PER FT.	MOISTURE CONTENT %	DRY UNIT WEIGHT p.c.f.	DEPTH IN FEET	USCS CLASSIFICATION	DESCRIPTION
				CL/CH	SILTY CLAY, dark brown, wet, medium stiff, moderate plasticity (Fill)
				CL	SILTY CLAY, orange-brown, wet, stiff, some fine- to coarse-grained sand and fine gravel, low plasticity
					SANDSTONE, fine, orange-gray-brown, friable, crushed, thickly bedded, some coarse-grained sand (Livermore Gravels)
			5		
70					SILTSTONE, orange-gray-brown, friable, crushed, thickly bedded (Livermore Gravels)
					at 8 feet, cutting vapors read 64 ppm with OVM
			10		
57					
					at 14 feet, cutting vapors read 1110 ppm with OVM
			15		
68					at 16 feet, some fine gravel
					CONGLOMERATE, fine, gray-orange-brown, friable, crushed, thickly bedded (Livermore Gravels)
					at 18 feet, cutting vapors read 435 ppm with OVM
			20		
50/6"					at 20 feet, sample vapors read less than 1 ppm with OVM

PLATE 7

BORING LOG MW-4

JOB NUMBER: 1613.001 **DATE DRILLED:** 7-31-90

JOB NAME: Moller Property **SURFACE ELEVATION:** 418.36 feet

DRILL RIG: Hollow Stem Auger **DATUM:** Alameda County

SAMPLER TYPE:	DRIVE WEIGHT - LB	HEIGHT OF FALL - IN
2.5 inch I. D. Split Barrel	140	30

BLOWS PER FT.	MOISTURE CONTENT %	DRY UNIT WEIGHT p.c.f.	DEPTH IN FEET	USCS CLASSI-FICATION	DESCRIPTION
				CH	SILTY CLAY, dark brown, moist, medium stiff, high plasticity
64			5		SILTSTONE/SANDSTONE, fine, orange-gray-brown, friable, crushed, thickly bedded (Livermore Gravels) OVM reading = 25 ppm
60			10		CONGLOMERATE, fine, orange-gray-brown, friable, crushed, thinly bedded, stained (Livermore Gravels) OVM reading = 450 ppm
50			15		SILTSTONE, orange-brown-gray, friable, crushed, thickly bedded (Livermore Gravels) at 11.5 feet, OVM reading = 36 ppm OVM reading = 533 ppm
60			20		CONGLOMERATE, fine, orange-brown, friable, crushed, thinly bedded (Livermore Gravels) SILTSTONE, gray-brown, friable, crushed, thickly bedded (Livermore Gravels) OVM reading = 25 ppm

PLATE 9

BORING LOG MW-5

JOB NUMBER: 1613.001 **DATE DRILLED:** 8-1-90

JOB NAME: Moller Property **SURFACE ELEVATION:** 407.73 feet

DRILL RIG: Hollow Stem Auger **DATUM:** Alameda County

SAMPLER TYPE:	DRIVE WEIGHT - LB	HEIGHT OF FALL - IN
2.5 Inch I.D. Split Barrel	140	30

BLOWS PER FT.	MOISTURE CONTENT %	DRY UNIT WEIGHT p.c.f.	DEPTH IN FEET	USCS CLASSI-FICATION	DESCRIPTION
				ML	CLAYEY SILT, dark brown, dry, medium stiff, some fine to coarse grained sand, some fine gravel, low plasticity
					below 2.5 feet, molst to wet
			5		
40					SILTSTONE, mottled gray and orange-brown, friable, crushed, thickly bedded (Livermore Gravels)
					at 6 feet, OVM reading = 0 ppm
					CONGLOMERATE, fine, blue-gray-orange-brown, friable, crushed, thickly bedded, stained (Livermore Gravels)
			10		at 8.5 feet, OVM reading = 46 ppm
48					at 11 feet, OVM reading = 2632 ppm
					at 15 feet, no staining, yellow-brown, clay matrix
			15		
54					OVM reading = 70 ppm
					SILTSTONE, yellow-brown, friable, crushed, thickly bedded, gray stains on fractures (Livermore Gravels)
			20		
58					OVM reading = 0 ppm

PLATE 11

BORING LOG MW-6

JOB NUMBER: 1613.003 **DATE DRILLED:** 5-4-1993

JOB NAME: Moller Property - Lot 14A **SURFACE ELEVATION:** + 404 feet

DRILL RIG: Hollow Stem Auger **DATUM:** Mean Sea Level

SAMPLER TYPE:	DRIVE WEIGHT - LB	HEIGHT OF FALL - IN
2.5 Inch I.D. Split Barrel	140	30

BLOWS PER FT.	MOISTURE CONTENT %	DRY UNIT WEIGHT p.c.f.	DEPTH IN FEET	USCS CLASSIFICATION	DESCRIPTION
28	-	-		CL	SANDY CLAY, gray-brown, dry, very stiff, fine-grained sand, some silt Organic Vapor Detector (O.V.D.) reading: 0.0 ppm
17	-	-	5	CL	SANDY CLAY, light gray-brown, moist to wet, stiff, fine to medium-grained sand, trace fine gravel O.V.D. reading: 0.0 ppm
55	-	-	10	CL	SILTY CLAY, light gray-brown, moist, hard, trace fine-grained sand, dark brown mottling O.V.D. reading: 0.0 ppm below 13 feet, trace fine gravel
60/ 6"	-	-	15		O.V.D. reading: 0.0 ppm
65/ 6"	-	-	20	CL	SANDY CLAY, mottled light gray-brown and light yellow-brown, moist, hard, fine to medium-grained sand, trace fine gravel O.V.D. reading: 0.0 ppm

PLATE 1

BERLOGAR GEOTECHNICAL CONSULTANTS

Clayton Environmental Consultants, Inc.

LOG OF EXPLORATORY BORING

PROJECT NO. 20-98214.0 DATE 4/2/99
CLIENT
LOCATION Meller Ranch
LOGGED BY WK DRILLER Gregg
BORING NO. B-5A
Sheet 1 of 1

Field location of boring:

Drilling method HSA
Hole Dia. 4"
Casing Installation Data

Ground Elev. Datum

Drilling Rate FT/MIN	PID / OVA	Depth	Sample	Soil Group Symbol (uscs)	Litho-graphic Symbol	Water Level / Time / Date	DESCRIPTION
							Silty Brown topsoil
					FILL		Silty Gravel, Grey; Baserock Fill Hard.
		5					
							Geo cloth @ 8' bgs
					ML		Clayey Silt (ML); yel brown soft
		10					
		15			Cgl/Sltst		Alternating Siltstone / Conglomerate V. hard
		20					
		25					
		30		TDE	30'		Water rose to 28' bgs
							Borehole backfilled with neat cement / 5% bentonite grout.

Clayton Environmental Consultants, Inc.

LOG OF EXPLORATORY BORING

PROJECT NO. 70-98-321.00 DATE 4/2/98
CLIENT
LOCATION Mattley Road
LOGGED BY MRL DRILLER Gregg
BORING NO. [redacted]
Sheet 1 of 1

Field location of boring:

Drilling method HSA
Hole Dia. 11"
Casing Installation Data

Ground Elev. Datum

Drilling Rate FT/MIN	PID / OVA	Depth	Sample	Soil Group Symbol (uscs)	Litho-graphic Symbol	Water Level / Time / Date	DESCRIPTION
					ML		SILT (ML); Yel brown; soft.
		5					
		10					
					Sst/Slst		Alternating Siltstone/Sandstone Very Hard -
		15					
		20		TDe	20'		

V. slow to recharge
water rose to 19' bgs

Borehole backfilled with neat cement / 5% bentonite grout

Clayton Environmental Consultants, Inc.

LOG OF EXPLORATORY BORING

PROJECT NO. 10-9832.00 DATE 4-2-98
CLIENT
LOCATION Moller Ranch
LOGGED BY MKC DRILLER Gregg
BORING NO. CMW3
Sheet 1 of 1

Field location of boring:

Ground Elev. Datum

Drilling method HSA
Hole Dia 4"
Casing Installation Data

Drilling Rate FT/MIN	PID / OVA	Depth	Sample	Soil Group Symbol (uscs)	Lithographic Symbol	Water Level / Time / Date	DESCRIPTION
					ML		SILT (ML); BROWN (10YR 4/3) SOFT MOIST
		5			ML		Clayey SILT (ML); Yel Brown; soft; minor rounded gravel
		10			Sct/Cgl.		GREY SANDSTONE / CONGLOMERATE hard rock; slow drilling
		15		TD	@15'		Water rose to 11.6' bgs
							Borehole back filled with neat cement 15% bentonite grout.

Clayton Environmental Consultants, Inc.

LOG OF EXPLORATORY BORING

PROJECT NO 70-98521.00 DATE 4-2-98
CLIENT
LOCATION Moller Ranch
LOGGED BY WRC DRILLER Gregg
BORING NO CB-4
Sheet 1 of 1

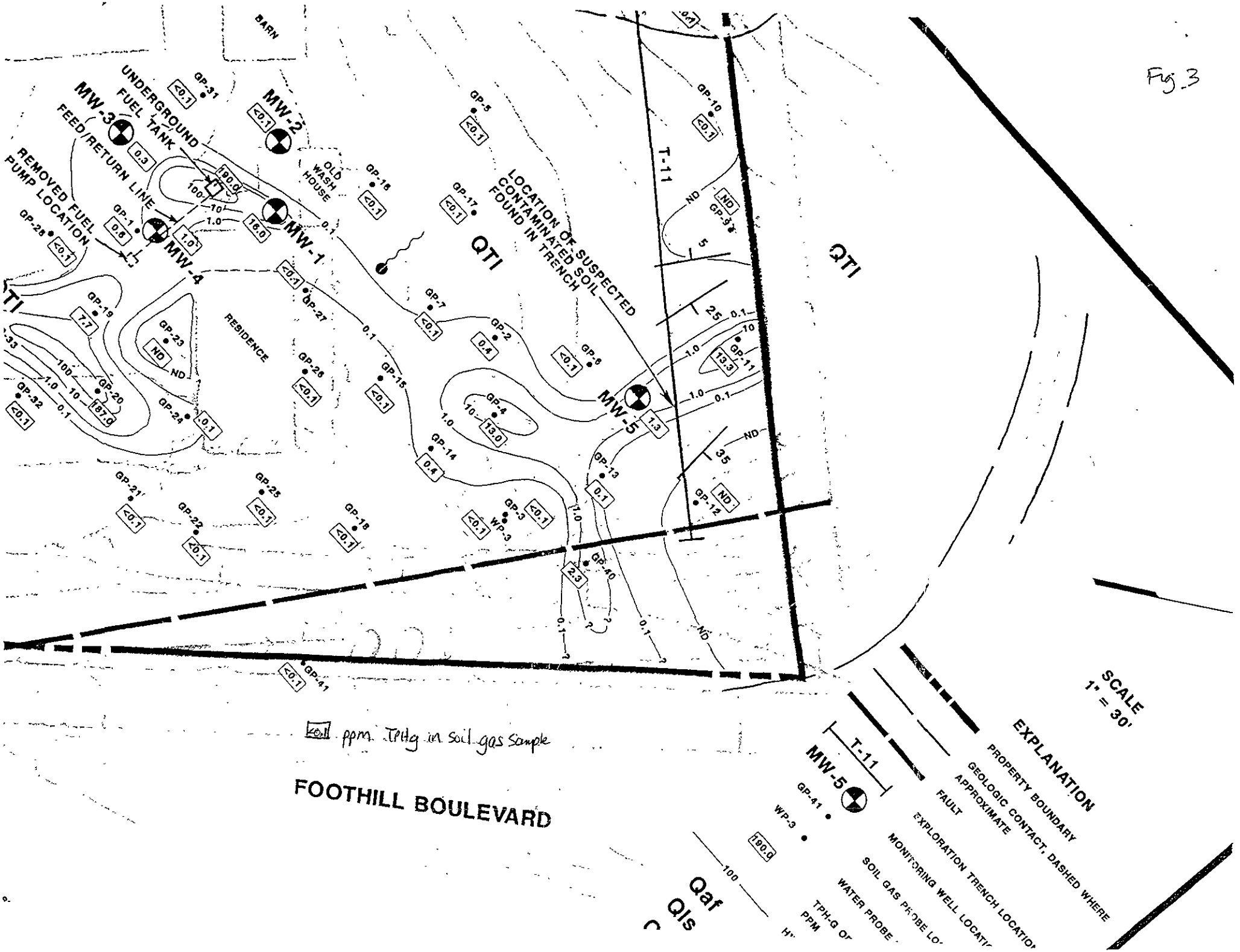
Field location of boring:

Drilling method HSA
Hole Dia. 4"
Casing Installation Data

Ground Elev. Datum

Drilling Rate FT/MIN	PID / OVA	Depth	Sample	Soil Group Symbol (USCS)	Lithographic Symbol	Water Level / Time / Date	DESCRIPTION
					ML		SILT (ML); yel brown; Soft.
		5					
		10					
					Cgl.		Conglomerate; V. Hard; slow drilling
		15					
		20					
		25		TD@25'			Water V-slow to enter borehole Water rose to 24' bgs Borehole backfilled with neat cement (5% bentonite cement)

Fig 3


BARN
UNDERGROUND FUEL TANK
FEED/RETURN LINE
REMOVED FUEL PUMP LOCATION
OLD WASH HOUSE
RESIDENCE
LOCATION OF SUSPECTED CONTAMINATED SOIL FOUND IN TRENCH
MW-1
MW-2
MW-3
MW-4
MW-5
T-11
QTI
GP-1
GP-2
GP-3
GP-4
GP-5
GP-6
GP-7
GP-8
GP-9
GP-10
GP-11
GP-12
GP-13
GP-14
GP-15
GP-16
GP-17
GP-18
GP-19
GP-20
GP-21
GP-22
GP-23
GP-24
GP-25
GP-26
GP-27
GP-28
GP-31
GP-32
GP-33
GP-40
GP-41
WP-3
FOOTHILL BOULEVARD
Qaf
Qls
SCALE
1" = 30'
EXPLANATION
PROPERTY BOUNDARY
GEOLOGIC CONTACT, DASHED WHERE APPROXIMATE
FAULT
EXPLORATION TRENCH LOCATION
MONITORING WELL LOCATION
SOIL GAS PROBE LOCATION
WATER PROBE
TPH-G OR PPM
ppm TPHg in soil gas sample