June 10, 1985

1971-BUDGE 1-51K

what aty of soil disposed - whore did it come from - why did it have THT? May be due to UST replacement. The double-walled FG USTS were unstalled in 1985. Unbnown if these USTS replaced andder generation of Tanks. Yes probabley replace USTS installed in 1971.

Board Signaloil

FILE Signaloil

9-463 61950'S had IK (removed)

1935 - 2-550, 1-114

Ms. Gloria R. Fulton
California Regional Water Quality Control Board
San Francisco Bay Region
1111 Jackson Street, Room 6040
Oakland, California 94607

Dear Ms. Fulton:

Attached are the test results of the soil samples taken from the Alameda landfill. It appears the soil does not contain any harmful levels of hydrocarbons, leads and phenois.

Chevron feels the soil levels are considered safe, and will not produce any environmental hazards. Chevron recommends to leave the soil at the landfill site.

Please advise us of your decision so we can act accordingly.

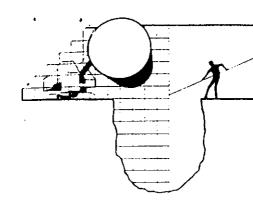
Very truly yours,

C. G. TRIMBACH

By\_\_\_\_\_

Engineer

VLH:vjs:QK2-100



### BLAINE TECH SERVICES

P.O. BOX 5745 SAN JOSE, CA 9515( (408) 723-3974

May 28, 1985

Chevron U. S. A., Inc. 2 Annabel Lane, Suite 200 San Ramon, CA 94583

ATTN: Vicki Hobbs

RE: soil sampling at

City of Alameda Landfill
Alameda, CA
on

May 21, 1985

Reason for sampling -- to resolve questions concerning the level of contamination in soil admitted to the Alameda City Landfill

### SAMPLING REPORT

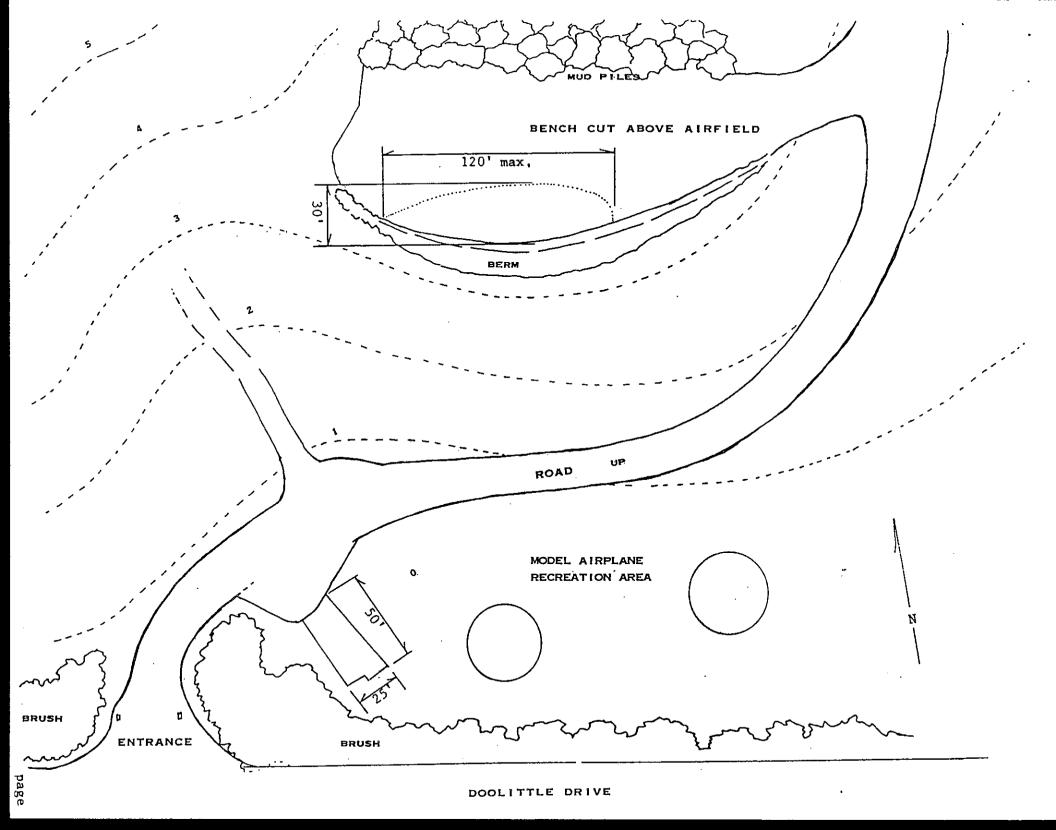
Sampling was performed in accordance with approved methodology at the locations shown in the accompanying site diagram. A detailed description of the sampling is provided in the section covering exploration. Samples were collected in appropriate containers, which were sealed, chilled and transported to the laboratory for analysis. Analytical services will be provided by IT Stoner Laboratories and McIntosh Laboratories. Pending the arrival of the laboratory's written report, space is provided for lab results obtained over the telephone.

#### SOIL SURVEY

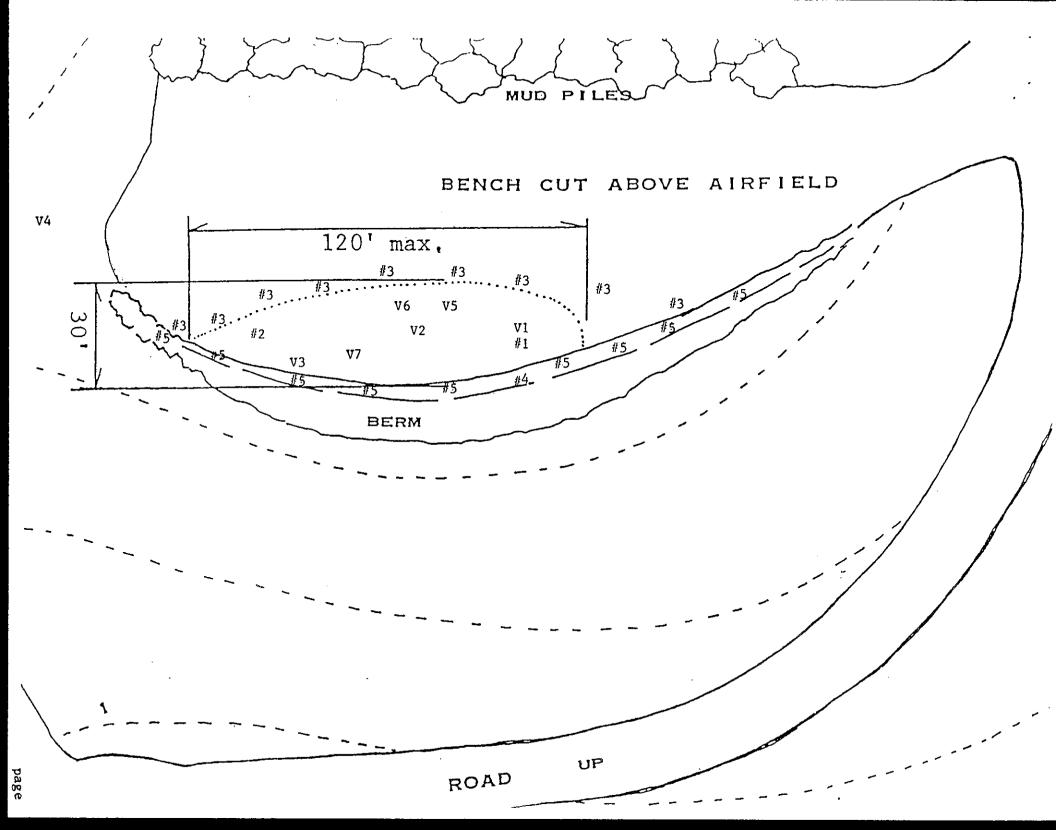
At the site I met Ms. Vicki Hobbs of Chevron U.S.A., Inc. and Mr. Edgar D. Howell 111, R.S. from the office of Haz/Mat Management for the Alameda County Health Agency. We discussed the probable location of the soil brought to the site, the type of samples to be taken, and the analyses to be run.

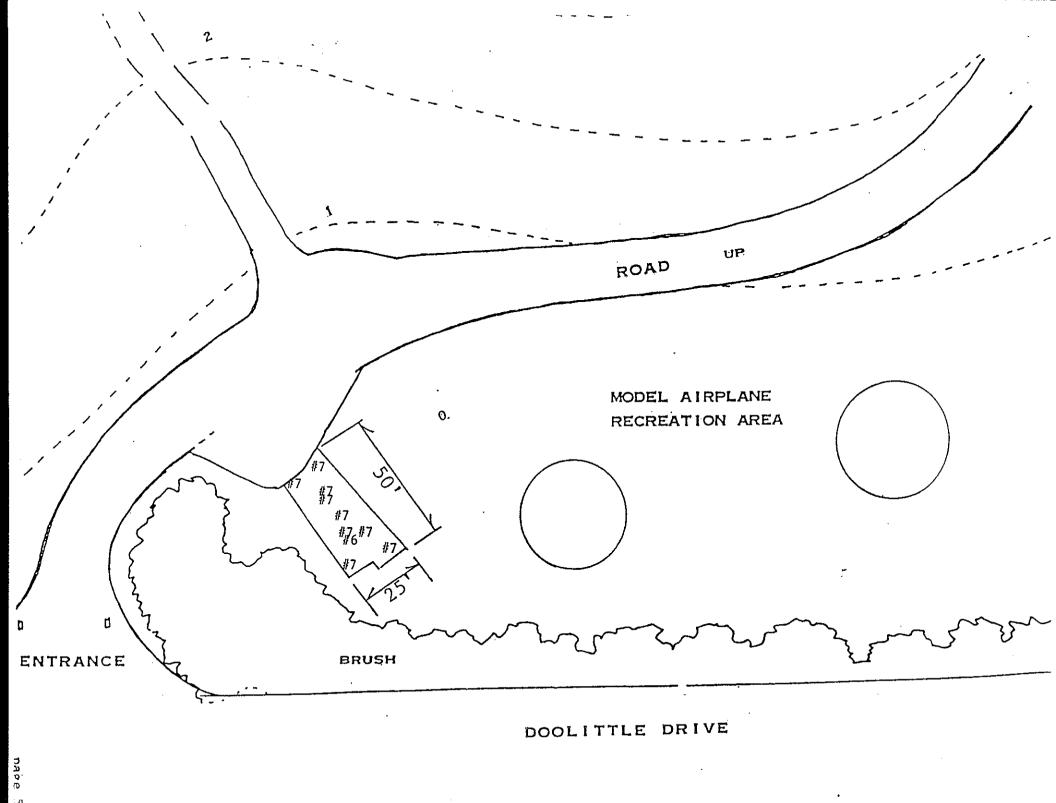
We would be concerned with two areas where the soil was spread out. The first area was along the outer edge of a bench cut on the hillside where the majority of the soil had been spread inside of an existing berm. The second location was near the entrance and immediately west of the model airplane field on Doolittle Rd.

Blaine sampling report 85141A for 5/21/85 Chevron at Alameda Landfill page 1 of 6



G-1314 VAPOR READINGS	SOIL SAMPLING POINTS UPPER BENCH SERIES	ANALYSIS FOR Hydrocarbons Due to gasoline	ANALYSIS FOR TOTAL LEAD PHENOL		
V1 = 0. ppm V2 = 50. ppm V3 = 20. ppm	<pre>#1 @ 6" depth; 10' N, of    N toe of berm, in cntr    of spread soil area.    @ point of (V5) highest</pre>		units= ug/g		
V4 = 10. ppm * V5 = 310. ppm peak	vapor meter reading 310 PPM #2 @ 6" depth; 75' W of	O PPM	23 <0.10		
280. ppm stable 240. ppm test end	sample #1; 10' N of N toe of berm. Vapor 65 PPM	_удРРМ	7.7 0.12		
V6 = 30, ppm V7 = 65, ppm * V4 was taken on the	#3 @ 4"-6" depth; total of nine equal cores taken along N perimeter of spread soil area. No significant vapor.	not required	Sample #3 placed on HOLD pending significant positive in the rest of the series		
hillside above the site as a background check,	<pre>#4 @ 8" depth; on N face   of berm, 15' N or #1   No significant vapor</pre>	not required	_72		
	#5 @ 6"-8" depth; total of nine equal cores taken along N face of berm just S of spread soil area. No significant vapor	not required	58 0.10		
	ENTRANCE AREA SERIES				
	#6 @ 5" depth; in cntr of spread soil area opened by bulldozer. Taken at				
	highest vapor reading 78 PPM #7 @ 4"-8" depth; total of	not required	79 0.10		
	nine equal cores taken in an X pattern survey. No significant vapor.	not required	Sample #7 place on HOLD pending significant positives in the rest of the series		





#### Upper Bench

The soil in this location was reported to have been spread thin inside the berm which encircles the downslope side of the bench. The area over which the soil was spread was indicated by the employee who had performed the bulldozer work. We were told the soil would range from 0" at the north to approximately 8" in depth at the inside toe of the berm. I used a G-1314 to spot check the soil for combustible vapors in several locations in the central portion of this area. Vapor check locations are shown on the site diagram.

Vapor readings were generally low. The highest reading peaked at 310 ppm and fell back to 280 ppm. Soil sample #1 was taken from this material. Additional soil samples were obtained from other areas as requested by Mr. Howell. Sample points are shown on the site diagram for the upper bench.

### Entrance Area

A bulldozer was used to cut away material that had been spread on top of the soil from Chevron. The G-1314 was used to spot check the freshly cut soil, but there was only one area with significant vapors. This soil was sampled and designated sample #6. A precautionary X patterned survey of the entire area was taken as well. This composite was designated sample #7.

I have arranged to have the laboratory reports sent directly to you.

I will be happy to answer any questions you or anyone else concerned with the project may have.

Richard C Blaine

RCB/sjw



# McINTOSH LABORATORIES

409 MATHEW STREET

SANTA CLARA, CALIFORNIA 95050

(408) 727-6134

Blaine Technical Services

P. O. Box 5745

San Jose, Calif. 95150

Attn: Richard Blaine

Reference: Chevron Alameda

Muni Dump Landfill

BTS/P. 0. 8514A

(original to Chevron/San Ramon)

Report Date:

5/23/85

Date Received: Date Sampled:

5/21/85

By Whom:

Lab Number

Client Sample Identification

24170

85141A - #5

Soil

24171

85141A - #6

All Units in mg | | Unless Otherwise Noted. \*

	DETERMINATION	24170	LAB NO.	LAB NO. 24171		DETERMINATION	LAB NO. 24170		LAB NO. 24171
001	Acidity Total (CaCO <sub>3</sub> )	1			133	Nickel (Ni)			
003	Alkalinity Total (CaCO <sub>3</sub> )				201				
005	Alkalinity Phth (CaCO <sub>3</sub> )			1	203				
100	Aluminum (Al)			<u> </u>	1	Nitrogen, Kjeldahl (N)			***
200	Ammonia ( )				1	Nitrogen, Organic (N)	<u> </u>		
103	Arsenic (As)			i	027	Odor (TON)			
105	Barium (Ba)				401	Oil & Grease			
107	Beryllium (Be)				029	pH (Std Units)			
007	Bicarbonate (HCO <sub>3</sub> )		-		1	Phenolics	0.10		0.10
300	Bio Oxygen Demand (O2)				ĭ	Phosphate, Ortho ( )			
009	Boron (B)				211	•			
011	Bromide (Br)				137	Potassium (K)			
109	Cadmium (Cd)				139	Selenium (Se)			
111	Calcium (Ca)				031	Silica (SiO <sub>2</sub> )			* **
301	Carbon, Ttl Organic (C)				141	Silver (Ag)			
012	Carbonate (CO <sub>3</sub> )				143	Sodium (Na)			
303	Chem. Oxygen Demand (Oz)				033	Solids, Dissolved (TDS)	ļ · · · · ·		
013	Chloride (CI)				035	Solids, Settleable (ml/l/h)			
015	Chlorine, Residual (Cl2)				037	Solids, Suspended			
305	Chforophyll ( )				039	Solids, Total			
113	Chromium (Cr+6)				041	Solids, Volatile			
115	Chromium, Total (Cr)				043	Sulfate (SO <sub>4</sub> )			
117	Cobalt (Co)				045	Sulfide (S)			
017	Color (APHA)								
019	Conductivity Specific		•			Surfactants (MBAS)	<b> </b>		
	(umhos : cm)	1			051	Turbidity (FTU)			· · · · · · · · · · · · · · · · · · ·
119	Copper (Cu)				145	Zinc (Zn)	-		
120	Cyanide, Total (CN)					Total Coliform			
023	Fluoride (F)					(MPN / 100 ml)	1		
025	Hardness (CaCO <sub>3</sub> )				309	Fecal Coliform			
121	Iron (Fe)					(MPN / 100 ml)			
123	Lead (Pb)	58		79	311	96 Hour Bioassay	<del></del>		
	Magnesium (Mg)			<del></del>		TL50	'	ļ	i
127	Manganese (Mn)					%Survival	<del>                                     </del>		
129	Mercury (Hg)						<del>  </del>		<del></del>
	Molybdenum (Mo)								

Comments:

All units in ug/g

By ROUM Co



## McINTOSH LABORATORIES

409 MATHEW STREET

SANTA CLARA, CALIFORNIA 95050

(408) 727-6134

Rex Mathosh

; ;

Blaine Technical Services P. O. Box 5745

San Jose, Calif. 95150

Attn: Richard Blaine

Reference: Chevron Alameda Muni Dump Landfill

BTS/ P. O. 8514A

(Original to Chevron/San Ramon)

Report Date: Date Received:

5/23/85

Date Sampled:

5/21/85

By Whom: Lab Number

Client Sample Identification

24167

85141A - #1

Soil

24168

85141A - #2

24169

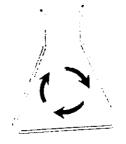
85141A - #4

All Units in mg | | Unless Otherwise Noted:

	DETERMINATION	LAB NO. 24167	LAB NO. 24168			DETERMINATION	LAB NO. 24167	24168	
001	Acidity Total (CaCO <sub>3</sub> )	,		2,100	<del></del>	Nickel (Ni)	1 24IU/	# <del>4100</del>	2410
003	Alkalinity Total (CaCO <sub>3</sub> )				201	Nitrate ( )			
005	Afkalinity Phth (CaCO <sub>3</sub> )				203				
100	Aluminum (AI)				205	, ,			
200	Ammonia ( )				207				
103	Arsenic (As)				027				
105	Barium (Ba)				401				
107	Beryllium (Be)				029	pH (Std Units)			
007	Bicarbonate (HCO <sub>3</sub> )				403	Phenolics (as rec'd)	<0.10	0.12	<0.10
300	Bio Oxygen Demand (O <sub>2</sub> )					Phosphate, Ortho ( )			
009	Boron (B)					Phosphorus, Total ( )			
011	Bromide (Br)			*	1	Potassium (K)			
109	Cadmium (Cd)				139	Selenium (Se)			
111	Calcium (Ca)			_	031	Silica (SiO <sub>2</sub> )			
301	Carbon, Ttl Organic (C)				141	Silver (Ag)			
12	Carbonate (CO <sub>3</sub> )				143	Sodium (Na)	· · · · ·		
303	Chem. Oxygen Demand (O2)				033	Solids, Dissolved (TDS)			
13	Chloride (CI)					Solids, Settleable (ml/l/h)			
15	Chlorine, Residual (Cl2)				037				
305	Chlorophyll ( )				039	Solids, Total			
13	Chromium (Cr+6)				041	Solids, Volatile			
15	Chromium, Total (Cr)				043	Sulfate (SO <sub>4</sub> )			
17	Cobalt (Co)				045	Sulfide (S)			
17	Color (APHA)				047	Sulfite (SO <sub>3</sub> )			
19	Conductivity Specific				405	Surfactants (MBAS)			
	(umhos :cm)		İ		051	Turbidity (FTU)			
19	Copper (Cu)				145	Zinc (Zn)			
20	Cyanide, Total (CN)				307	Total Coliform			
23	Fluoride (F)					(MPN/100 mł)	1		
25	Hardness (CaCO <sub>2</sub> )				309	Fecal Coliform			
21	Iron (Fe)					(MPN/100 mi)			
	Lead (Pb) (as rec'd)	20	6.5	72	311	96 Hour Bioassay	<del></del>		
	Magnesium (Mg)					TL <sup>50</sup>			
	Manganese (Mn)					%Survival			
	Mercury (Hg)				Τc	ead - dry weight	23	7.7	
	Molybdenum (Mo)							0.14	
		<u> </u>			- 11	nenolics - dry weigh	<del>42</del> 244 —	U.141	

Comments: All units in ug/g

6 mare ordin



# STONER LABORATORIES

397 MATHEW STREET, SANTA CLARA, CALIFORNIA 95050-3158

(408) 727-4277

May 31, 1985

1

Chevron USA Inc. 2 Annabel Ln, Suite 200 San Ramon, CA 94583

ATTN: Vicki Hobbs

Following are the results of our analysis for the presence of volatile hydrocarbons due to gasoline in two samples of soil received on May 21, 1985 from Blaine Tech Services.

The samples were examined using the purge and trap technique. Final detection was by gas chromatography using a flame ionization detector and a Carbopack B/3% SP-1500 column. This method allows for the detection of aliphatic hydrocarbons from C5through C10 and aromatic hydrocarbons through substituted benzenes. Hydrocarbons  $C_5-C_7$ , benzene and toluene were calculated by comparing the sample chromatogram to a fresh gasoline standard. Hydrocarbons  $C_8-C_{10}$  ethyl chromatogram to a standard of gasoline which had been evaporated to comparing to a standard of gasoline which had been evaporated to 35% of its original weight. The results given below are the sum of hydrocarbons in these two ranges.

nd = none	detected Sample Identification	Results Parts per Million (dry soil basis) Volatile Hydrocarbons Due to Gasoline		
	BTS #85141A Chevron @ Alameda Muni Dump			
28836 28837	JL 3	10.		
	#1	nd		
	#2			
Detectio	n Limit	2.		

Patricia L. Murphy

PLM/jd

cc: Richard Blaine

Blaine Tech Services