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January 15, 1991  
Project 4454/5

Ms. Pam Evans  
Alameda County Health Agency  
80 Swan Way, Room 200  
Oakland, California 94621

Subject: Statistical Characterization of Pesticide Concentrations  
Soil Stockpile from Laguna Park  
Hayward, California

Dear Ms. Evans:

Pursuant to recent project discussions and our Work plan of November 13, 1990, we have prepared this letter presenting the characterization test results for residual pesticide concentrations in the soil stockpile from Laguna Park. The subject 2,500± cubic yards of soil were generated during the subexcavation of the portion of the Laguna Park which historically was overlain by nursery debris (see Project 4454/4 report dated June 27, 1990). The stockpile is presently located on the Sunnyside Commons II parcel (see Figure 1).

*Sunnyside  
Nursery  
Related*

**WORK PERFORMED**

Random sampling locations were determined using the following procedure: (1) divided the pile mass into an imaginary 10 by 10 by 10 grid of equal- volume cells, numbered sequentially from 1 to 1000, south to north, west to east, top to bottom; and (2) utilized the random number generator in our IBM PC's BASIC programming language, with a seed number of 2500 (volume of stockpile), and generated a list of nine 3-digit cell numbers (971, 737, 640, 520, 548, 145, 255, 406 and 942).

Scott Wolff of Environmental Risk Sciences (ERS) had calculated that approximately nine discreet samples would be needed to statistically characterize the residual pesticide levels in the stockpile to a 95% confidence level.

On December 12, 1990 an OSHA/SARA-trained member of Terratech's staff collected a soil sample from each of the nine cell center locations (see Figure 1). The samples were collected in brass liners using pre-cleaned hand equipment. Immediately upon collection, each liner of soil was packaged, labeled and iced. A chain of custody record was completed to document sample depths, handling and analytical requests (see Appendix). The samples were individually analyzed by Anametrix, a state certified laboratory, for chlorinated pesticides using EPA Method 8080. Terratech and Anametrix procedures complied with EPA Manual SW-846.

January 15, 1991

**FINDINGS AND COMMENTS**

Traces of six EPA 8080 pesticides were detected in the nine soil samples. These results are summarized in Table 1. Specific information such as the names of pesticides which weren't detected and analytical detection limits can be found on the appended laboratory report.

As indicated in Table 1, the residual pesticide concentrations are well below both the State's threshold for classification as a "Persistent and Bio-accumulative Toxic Substance" and ERS's "Safe Soil Level" for human health risk.

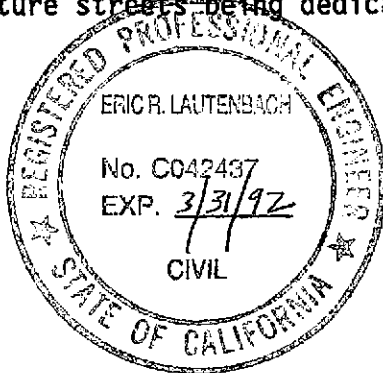
On behalf of the Plymouth Group, we therefore request permission to utilize the subject soil in the grading of the Sunnyside Commons development, excluding right-of-ways for future streets being dedicated to the City of Hayward.

Sincerely,

TERRATECH, INC.



Eric R. Lautenbach  
CE 42437



cc: Hugh Murphy, Hayward Fire Department  
Laura Rice, The Plymouth Group

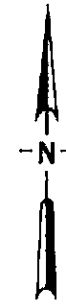


TABLE 1

SUMMARY OF PESTICIDE TEST RESULTS FOR STOCKPILE FROM LAGUNA PARK SITE HAYWARD, CALIFORNIA (all values in parts per million - ppm)						
SAMPLE #	DDE	DDT	ENDRIN	ENDOSULFAN		
				I	II	SULFATE
SP-1	N.D.	N.D.	.032	.022	.052	.13
SP-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SP-3	.079	.13	N.D.	N.D.	N.D.	N.D.
SP-4	N.D.	.041	N.D.	N.D.	N.D.	N.D.
SP-5	N.D.	N.D.	.033	.19	.11	.094
SP-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SP-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SP-8	.036	.051	N.D.	N.D.	N.D.	N.D.
SP-9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
TOXIC *	1.0	1.0	0.2	3.5	3.5	3.5

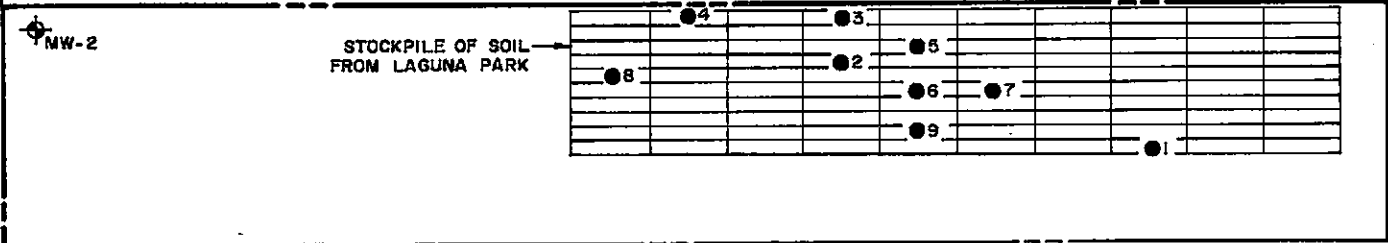
\* NOTE: Total Threshold Limit Concentration for DDT family and Endrin,  
"Safe Soil Level" derived by ERS for Endosulfan family.



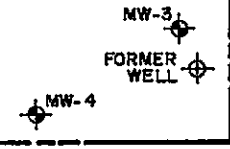
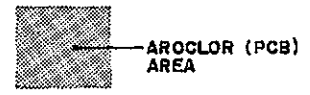


SUNNYSIDE NURSERY

DRIVE



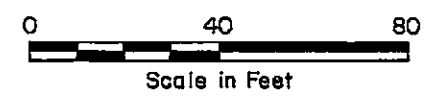
SUNNYSIDE NURSERY



MOHR

SUNNYSIDE NURSERY

- LEGEND**
- 9 Soil sample location
  - ⊕ MW-4 Monitoring well
  - Property boundary (Sunnyside Commons II)



SAN JOSE BLUEPRINT CO.  
PRINTED ON JR 300

SUNNYSIDE COMMONS DEVELOPMENT  
HAYWARD, CALIFORNIA

SAMPLE LOCATION PLAN FOR LAGUNA PARK STOCKPILE

FIGURE  
1  
PROJECT  
4454/5

**APPENDIX**

**CHAIN OF CUSTODY RECORD**

**AND**

**LABORATORY REPORT**



TERRATECH

CHAIN OF CUSTODY RECORD

P.O. NO. 5261

TURNAROUND: 2 weeks

PROJECT NUMBER: <u>#4454/5</u>						Number of Containers	Analysis Required <u>Chlorinated Pesticides (CEPA 0000)</u>	REMARKS				
SAMPLERS (signature): <u>Geoff Blain</u>												
Station Number	Date YAO	Time	Comp.	Grab	Station Location						SAMPLE DEPTH	
SP-1	12/12	AM				1 Brass Liner	X					5.4-6'
SP-2							X					4.2-4.8'
SP-3							X					3.6-4.2'
SP-4							X					3-3.6'
SP-5							X					3-3.6'
SP-6							X					0.6-1.2'
SP-7							X					1.2-1.8'
SP-8							X					2.4-3'
SP-9	↓	↓					X					5.4-6'
Relinquished by (signature):		Date / Time		Received by (signature):		Relinquished by (signature):		Date / Time		Received by (signature):		
Company or Agency:				Company or Agency:		Company or Agency:				Company or Agency:		
Relinquished by (signature):		Date / Time		Received by (signature):		Relinquished by (signature):		Date / Time		Received by (signature):		
Company or Agency:				Company or Agency:		Company or Agency:				Company or Agency:		
Relinquished by (signature):		Date / Time		Received for Laboratory by (signature):		Date / Time		Remarks/Shipping Information				
Company or Agency: <u>Geoff Blain</u> TERRATECH, INC.		12/13/90 10:35		<u>[Signature]</u>		12/13/90		Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112				

JAN 03 1990

RECEIVED

MR. ERIC LAUTENBACH  
TERRATECH, INC. - SAN JOSE  
1365 VANDER WAY  
SAN JOSE, CA 95112Workorder # : 9012125  
Date Received : 12/13/90  
Project ID : 4454/5  
Purchase Order: 5261

The following samples were received at Anamatrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9012125- 1	SP-1
9012125- 2	SP-2
9012125- 3	SP-3
9012125- 4	SP-4
9012125- 5	SP-5
9012125- 6	SP-6
9012125- 7	SP-7
9012125- 8	SP-8
9012125- 9	SP-9

This report consists of 14 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anamatrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

  
\_\_\_\_\_  
Burt Sutherland  
Laboratory Director

1-2-91  
\_\_\_\_\_  
Date

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. ERIC LAUTENBACH  
TERRATECH, INC. - SAN JOSE  
1365 VANDER WAY  
SAN JOSE, CA 95112

Workorder # : 9012125  
Date Received : 12/13/90  
Project ID : 4454/5  
Purchase Order: 5261  
Department : GC  
Sub-Department: PEST

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9012125- 1	SP-1	SOIL	12/12/90	8080
9012125- 2	SP-2	SOIL	12/12/90	8080
9012125- 3	SP-3	SOIL	12/12/90	8080
9012125- 4	SP-4	SOIL	12/12/90	8080
9012125- 5	SP-5	SOIL	12/12/90	8080
9012125- 6	SP-6	SOIL	12/12/90	8080
9012125- 7	SP-7	SOIL	12/12/90	8080
9012125- 8	SP-8	SOIL	12/12/90	8080
9012125- 9	SP-9	SOIL	12/12/90	8080



REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. ERIC LAUTENBACH  
TERRATECH, INC. - SAN JOSE  
1365 VANDER WAY  
SAN JOSE, CA 95112

Workorder # : 9012125  
Date Received : 12/13/90  
Project ID : 4454/5  
Purchase Order: 5261  
Department : GC  
Sub-Department: PEST

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Shatos Jimms 1-2-91  
Department Supervisor Date

Stefanie N Tran 12-91  
Chemist Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080  
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Sample ID : SP-1  
 Matrix : SOIL  
 Date Sampled : 12/12/90  
 Date Extracted : 12/19/90  
 Amount Extracted : 10.0 g  
 Date Analyzed : 12/26/90  
 Instrument ID : HP16

Anamatrix ID : 9012125-01  
 Analyst : ST  
 Supervisor : SD

Dilution Factor : 1.00  
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	8.0	ND	U
319-85-7	beta-BHC	8.0	ND	U
319-86-8	delta-BHC	8.0	ND	U
58-89-9	gamma-BHC	8.0	ND	U
76-44-8	Heptachlor	8.0	ND	U
309-00-2	Aldrin	8.0	ND	U
1024-57-3	Hept. epoxide	8.0	ND	U
959-98-8	Endosulfan I	8.0	22.	
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	ND	U
72-20-8	Endrin	16.	32.	
33213-65-9	Endosulfan II	16.	52.	
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	130.	
50-29-3	4,4'-DDT	16.	ND	U
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	ND	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
7421-93-4	Endrin Aldehyde	16.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080  
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Sample ID : SP-2  
 Matrix : SOIL  
 Date Sampled : 12/12/90  
 Date Extracted : 12/19/90  
 Amount Extracted : 10.0 g  
 Date Analyzed : 12/26/90  
 Instrument ID : HP16

Anamatrix ID : 9012125-02  
 Analyst : ST  
 Supervisor : SD

Dilution Factor : 1.00  
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	8.0	ND	U
319-85-7	beta-BHC	8.0	ND	U
319-86-8	delta-BHC	8.0	ND	U
58-89-9	gamma-BHC	8.0	ND	U
76-44-8	Heptachlor	8.0	ND	U
309-00-2	Aldrin	8.0	ND	U
1024-57-3	Hept. epoxide	8.0	ND	U
959-98-8	Endosulfan I	8.0	ND	U
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	ND	U
72-20-8	Endrin	16.	ND	U
33213-65-9	Endosulfan II	16.	ND	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	ND	U
50-29-3	4,4'-DDT	16.	ND	U
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	ND	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
7421-93-4	Endrin Aldehyde	16.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080  
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Sample ID : SP-3  
 Matrix : SOIL  
 Date Sampled : 12/12/90  
 Date Extracted : 12/19/90  
 Amount Extracted : 10.0 g  
 Date Analyzed : 12/26/90  
 Instrument ID : HP16

Anamatrix ID : 9012125-03  
 Analyst : ST  
 Supervisor : SD

Dilution Factor : 1.00  
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	8.0	ND	U
319-85-7	beta-BHC	8.0	ND	U
319-86-8	delta-BHC	8.0	ND	U
58-89-9	gamma-BHC	8.0	ND	U
76-44-8	Heptachlor	8.0	ND	U
309-00-2	Aldrin	8.0	ND	U
1024-57-3	Hept. epoxide	8.0	ND	U
959-98-8	Endosulfan I	8.0	ND	U
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	79.	
72-20-8	Endrin	16.	ND	U
33213-65-9	Endosulfan II	16.	ND	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	ND	U
50-29-3	4,4'-DDT	16.	130.	
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	ND	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
7421-93-4	Endrin Aldehyde	16.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080  
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Sample ID : SP-4  
 Matrix : SOIL  
 Date Sampled : 12/12/90  
 Date Extracted : 12/19/90  
 Amount Extracted : 10.0 g  
 Date Analyzed : 12/26/90  
 Instrument ID : HP16

Anamatrix ID : 9012125-04  
 Analyst : SF  
 Supervisor : SD

Dilution Factor : 1.00  
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	8.0	ND	U
319-85-7	beta-BHC	8.0	ND	U
319-86-8	delta-BHC	8.0	ND	U
58-89-9	gamma-BHC	8.0	ND	U
76-44-8	Heptachlor	8.0	ND	U
309-00-2	Aldrin	8.0	ND	U
1024-57-3	Hept. epoxide	8.0	ND	U
959-98-8	Endosulfan I	8.0	ND	U
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	ND	U
72-20-8	Endrin	16.	ND	U
33213-65-9	Endosulfan II	16.	ND	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	ND	U
50-29-3	4,4'-DDT	16.	41.	U
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	ND	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
7421-93-4	Endrin Aldehyde	16.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080  
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Sample ID : SP-5  
 Matrix : SOIL  
 Date Sampled : 12/12/90  
 Date Extracted : 12/19/90  
 Amount Extracted : 10.0 g  
 Date Analyzed : 12/26/90  
 Instrument ID : HP16

Anamatrix ID : 9012125-05  
 Analyst : ST  
 Supervisor : SD

Dilution Factor : 1.00  
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	8.0	ND	U
319-85-7	beta-BHC	8.0	ND	U
319-86-8	delta-BHC	8.0	ND	U
58-89-9	gamma-BHC	8.0	ND	U
76-44-8	Heptachlor	8.0	ND	U
309-00-2	Aldrin	8.0	ND	U
1024-57-3	Hept. epoxide	8.0	ND	U
959-98-8	Endosulfan I	8.0	190.	
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	ND	U
72-20-8	Endrin	16.	33.	
33213-65-9	Endosulfan II	16.	110.	
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	94.	
50-29-3	4,4'-DDT	16.	ND	U
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	ND	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
7421-93-4	Endrin Aldehyde	16.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080  
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Sample ID : SP-6  
 Matrix : SOIL  
 Date Sampled : 12/12/90  
 Date Extracted : 12/19/90  
 Amount Extracted : 10.0 g  
 Date Analyzed : 12/26/90  
 Instrument ID : HP16

Anamatrix ID : 9012125-06  
 Analyst : ST  
 Supervisor : SP

Dilution Factor : 1.00  
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	8.0	ND	U
319-85-7	beta-BHC	8.0	ND	U
319-86-8	delta-BHC	8.0	ND	U
58-89-9	gamma-BHC	8.0	ND	U
76-44-8	Heptachlor	8.0	ND	U
309-00-2	Aldrin	8.0	ND	U
1024-57-3	Hept. epoxide	8.0	ND	U
959-98-8	Endosulfan I	8.0	ND	U
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	ND	U
72-20-8	Endrin	16.	ND	U
33213-65-9	Endosulfan II	16.	ND	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	ND	U
50-29-3	4,4'-DDT	16.	ND	U
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	ND	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
7421-93-4	Endrin Aldehyde	16.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080  
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Sample ID : SP-7  
 Matrix : SOIL  
 Date Sampled : 12/12/90  
 Date Extracted : 12/19/90  
 Amount Extracted : 10.0 g  
 Date Analyzed : 12/26/90  
 Instrument ID : HP16

Anamatrix ID : 9012125-07  
 Analyst : ST  
 Supervisor : SD

Dilution Factor : 1.00  
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	8.0	ND	U
319-85-7	beta-BHC	8.0	ND	U
319-86-8	delta-BHC	8.0	ND	U
58-89-9	gamma-BHC	8.0	ND	U
76-44-8	Heptachlor	8.0	ND	U
309-00-2	Aldrin	8.0	ND	U
1024-57-3	Hept. epoxide	8.0	ND	U
959-98-8	Endosulfan I	8.0	ND	U
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	ND	U
72-20-8	Endrin	16.	ND	U
33213-65-9	Endosulfan II	16.	ND	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	ND	U
50-29-3	4,4'-DDT	16.	ND	U
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	ND	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
7421-93-4	Endrin Aldehyde	16.	ND	U



ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080  
ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Sample ID : SP-8  
 Matrix : SOIL  
 Date Sampled : 12/12/90  
 Date Extracted : 12/19/90  
 Amount Extracted : 10.0 g  
 Date Analyzed : 12/27/90  
 Instrument ID : HP16

Anametrix ID : 9012125-08  
 Analyst : ~~GA~~  
 Supervisor : SD

Dilution Factor : 1.00  
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	8.0	ND	U
319-85-7	beta-BHC	8.0	ND	U
319-86-8	delta-BHC	8.0	ND	U
58-89-9	gamma-BHC	8.0	ND	U
76-44-8	Heptachlor	8.0	ND	U
309-00-2	Aldrin	8.0	ND	U
1024-57-3	Hept. epoxide	8.0	ND	U
959-98-8	Endosulfan I	8.0	ND	U
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	36.	U
72-20-8	Endrin	16.	ND	U
33213-65-9	Endosulfan II	16.	ND	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	ND	U
50-29-3	4,4'-DDT	16.	51.	U
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	ND	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
7421-93-4	Endrin Aldehyde	16.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080  
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Sample ID : SP-9  
 Matrix : SOIL  
 Date Sampled : 12/12/90  
 Date Extracted : 12/19/90  
 Amount Extracted : 10.0 g  
 Date Analyzed : 12/26/90  
 Instrument ID : HP16

Anamatrix ID : 9012125-09  
 Analyst : ST  
 Supervisor : SD

Dilution Factor : 1.00  
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	8.0	ND	U
319-85-7	beta-BHC	8.0	ND	U
319-86-8	delta-BHC	8.0	ND	U
58-89-9	gamma-BHC	8.0	ND	U
76-44-8	Heptachlor	8.0	ND	U
309-00-2	Aldrin	8.0	ND	U
1024-57-3	Hept. epoxide	8.0	ND	U
959-98-8	Endosulfan I	8.0	ND	U
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	ND	U
72-20-8	Endrin	16.	ND	U
33213-65-9	Endosulfan II	16.	ND	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	ND	U
50-29-3	4,4'-DDT	16.	ND	U
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	ND	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
7421-93-4	Endrin Aldehyde	16.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608/8080  
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Sample ID : BLANK  
 Matrix : SOIL  
 Date Sampled : 0/ 0/ 0  
 Date Extracted : 12/19/90  
 Amount Extracted : 10.0 g  
 Date Analyzed : 12/26/90  
 Instrument ID : HP16

Anamatrix ID : PSBLK121990  
 Analyst : ST  
 Supervisor : SD

Dilution Factor : 1.00  
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	8.0	ND	U
319-85-7	beta-BHC	8.0	ND	U
319-86-8	delta-BHC	8.0	ND	U
58-89-9	gamma-BHC	8.0	ND	U
76-44-8	Heptachlor	8.0	ND	U
309-00-2	Aldrin	8.0	ND	U
1024-57-3	Hept. epoxide	8.0	ND	U
959-98-8	Endosulfan I	8.0	ND	U
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	ND	U
72-20-8	Endrin	16.	ND	U
33213-65-9	Endosulfan II	16.	ND	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	ND	U
50-29-3	4,4'-DDT	16.	ND	U
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	ND	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
7421-93-4	Endrin Aldehyde	16.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 608/8080  
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5  
 Matrix : SOIL

Anamatrix ID : 9012125  
 Analyst : ST  
 Supervisor : SD

	SAMPLE ID	SU1	TOTAL OUT
1	BLANK	116	0
2	SP-1	117	0
3	SP-2	80	0
4	SP-3	112	0
5	SP-4	117	0
6	SP-5	117	0
7	SP-6	83	0
8	SP-7	117	0
9	SP-8	102	0
10	SP-9	111	0
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

SU1 = DBC

QC LIMITS

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 (20-150)

\* Values outside of Anamatrix QC limits

NW  
1050



TERRATECH

CHAIN OF CUSTODY RECORD

9012125

10/19

P.O. NO. 5261

TURNAROUND: 2 weeks

PROJECT NUMBER: #4454/5						Number of Containers	Analysis Required <del>Chlorinated Pesticides (CEPA Exempt)</del>										REMARKS		
SAMPLERS (signature): Scott Blain																			
Station Number	Date Y/M	Time	Comp.	Grab	Station Location														
① SP-1	12/12	AM				1 Brass Liner	X										Core preparation N=	5.4-6'	
② SP-2							X											4.2-4.3'	
③ SP-3							X											3.6-4.2'	
④ SP-4							X											3-3.6'	
⑤ SP-5							X											3-3.6'	
⑥ SP-6							X											0.6-1.2'	
⑦ SP-7							X											1.2-1.8'	
⑧ SP-8							X											2.4-3'	
⑨ SP-9							X											5.4-6'	
Relinquished by(signature):		Date / Time		Received by (signature):		Relinquished by(signature):		Date / Time		Received by (signature):									
Company or Agency:				Company or Agency:		Company or Agency:				Company or Agency:									
<del>Relinquished by(signature):</del>		<del>Date / Time</del>		<del>Received by (signature):</del>		<del>Relinquished by:</del>		<del>Date / Time</del>		<del>Received by (signature):</del>									
<del>Company or Agency:</del>				<del>Company or Agency:</del>		<del>Company or Agency:</del>				<del>Company or Agency:</del>									
Relinquished by(signature): Scott Blain		Date / Time 12/13/90 10:35		Received for Laboratory by: (signature) [Signature]		Date / Time 12/13/90		Remarks/Shipping Information Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112											