

91 MAR -4 AM 11:10

February 27, 1991
Project 4454/5

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

Subject: Status Report
Statistical Characterization of Pesticide Concentrations
Sunnyside Nursery Soils
Hayward, California

Dear Ms. Evans:

Pursuant to recent project discussions and our Work Plan of November 13, 1990, we have prepared this status report presenting the characterization test results for residual pesticide concentrations in the shallow soils of the Sunnyside Nursery (proposed Sunnyside Commons development). Previous grab samples of this soil had indicated elevated concentrations of the organo-chloride pesticide Endosulfan, and possibly Endrin (see Project 4454 Table 1 dated February 8, 1989 and Project 4454/2 Table 1 dated May 3, 1989). The subject nursery discontinued operations in early Summer 1990.

WORK PERFORMED

Random sampling locations were determined using the following procedure: (1) divided a rectangular overlay of the entire nursery property into an imaginary 10 by 10 grid of equal-volume cells, numbered sequentially from 1 to 100, south to north, west to east; and (2) utilized the random number generator in our IBM PC's BASIC programming language, with a seed number of 4454 (our project number), and generated a list of 2-digit cell numbers. Duplicate cell numbers and cells with over 75% of their area outside the property limits (see shaded cells in Figure 1) were skipped over in the random selection procedure.

Scott Wolff of Environmental Risk Sciences (ERS) had calculated that approximately 35 discreet samples would be needed to statistically verify residual pesticide levels to a 95% confidence level. The hope being that all results would fall below the Title 22 Total Threshold Limit Concentrations (TTLCs) and the ERS "safe soil" levels.

On December 11 and 12, 1990 an OSHA/SARA-trained member of Terratech's staff collected a soil sample from the center locations of each of the 35 randomly selected cell (see Figure 1). The samples were collected from a depth interval of 6-12 inches in brass liners using pre-cleaned hand equipment.

The pavement or floor slab at sample locations RS-13, 17, 30 and 31 required coring before sampling. Immediately upon collection, each liner of soil was packaged, labeled and iced.

Chain of custody records were completed to document sample depths, handling and analytical requests (see Appendix). The samples were individually analyzed by Anamatrix, a state certified laboratory, for chlorinated pesticides using EPA Method 8080. Terratech and Anamatrix procedures complied with EPA Manual SW-846.

FINDINGS

A total of nine EPA 8080 pesticides were detected in the latest nursery soil samples. These results are summarized in Table 1. Chlordane and Endrin Ketone had not been previously detected. Specific information such as the names of pesticides which weren't detected and analytical detection limits can be found in the appended laboratory reports.

As indicated by shading in Table 1, the Endrin concentration in four of the samples exceed the State's TTLC for classification as a "Persistent and Bio-accumulative Toxic Substance". One of the high Endrin samples (RS-2) also contained total residual DDT (DDT+DDD+DDE) above its 1.0 ppm TTLC. Three other samples were found to have Endosulfan concentrations above ERS's "Safe Soil Level" for human health risk. Neither Terratech nor ERS could see a definite grouping, pattern or rationale for the seven "hot cells".

Twenty of the 35 samples from this statistical sampling event contained detectable amounts of pesticides less than the two criteria thresholds described above. Eight samples (including all three of the samples from under the front parking/office/warehouse area) contained no detectable EPA 8080 pesticides.

DESIGNATION OF "NO PESTICIDE" AREAS

Based on ground cover and documented test results, the soils within the 10 cell area encompassing the parking lots, loading ramps/docks, office, warehouse (see western cross-hatched area on Figure 1) are planned to be excluded from future pesticide testing and remediation.

By similar rationale, the six cell area in the northeastern property corner (also cross-hatched) will be excluded from future testing and remediation concerning pesticides. Issues surrounding the oily ground stains in this shop/boiler area are still planned to be addressed.



CURRENT FOLLOW-UP ACTIVITIES

With the consent of the Plymouth Group (the project developer), we are currently proceeding with the following actions:

1. Collection of shallow (6"-12" deep) soil samples from the centers of the remaining 23 cells (see Figure 1) and testing of all samples individually for EPA 8080 pesticides.

Follow-up exploration is planned in all cells of these 23 which are found to have pesticide concentrations above the state TTLCs or the "safe soil" levels derived by ERS. This follow-up will be in the manner described below in Items 2 and 3.

2. Exploration of the four cells (64, 68, 72 and 73) found to contain pesticide (Endrin and DDT) concentrations above their state TTLC by collection of four lateral samples (6"-12" depth) 10 feet from the center point and one deeper sample (24"-30") at the center point.

If any of these initial boundary samples are over the subject thresholds the direction will be further explored, at 10-foot lateral increments and 1-foot vertical increments, until definition is achieved.

3. Exploration of the three cells (9, 41 and 52) found to contain pesticide (Endosulfan) concentrations above the "safe soil" level derived by ERS but none above the state TTLC by one deeper sample (24"-30") at the center point. If the pesticide concentrations in this deeper sample are also high, the vertical extent will be further explored at 1-foot increments, until definition is achieved. At this time, the lateral extent of impact for these cells will be conservatively assumed to extend to the cell boundary.

REMEDIAL ACTION PLAN

Until the results of the characterization activities described above are available and economic evaluations conducted, no formal decision on a Remedial Action Plan will be made.



Project 4454/5

February 27, 1991

LIMITATIONS

This report and the work associated with it have been provided in accordance with the standards and practices currently employed in the environmental consulting profession. This is in lieu of all warranties, express or implied.

Sincerely,

TERRATECH, INC.



Eric R. Lautenbach
CE 42437



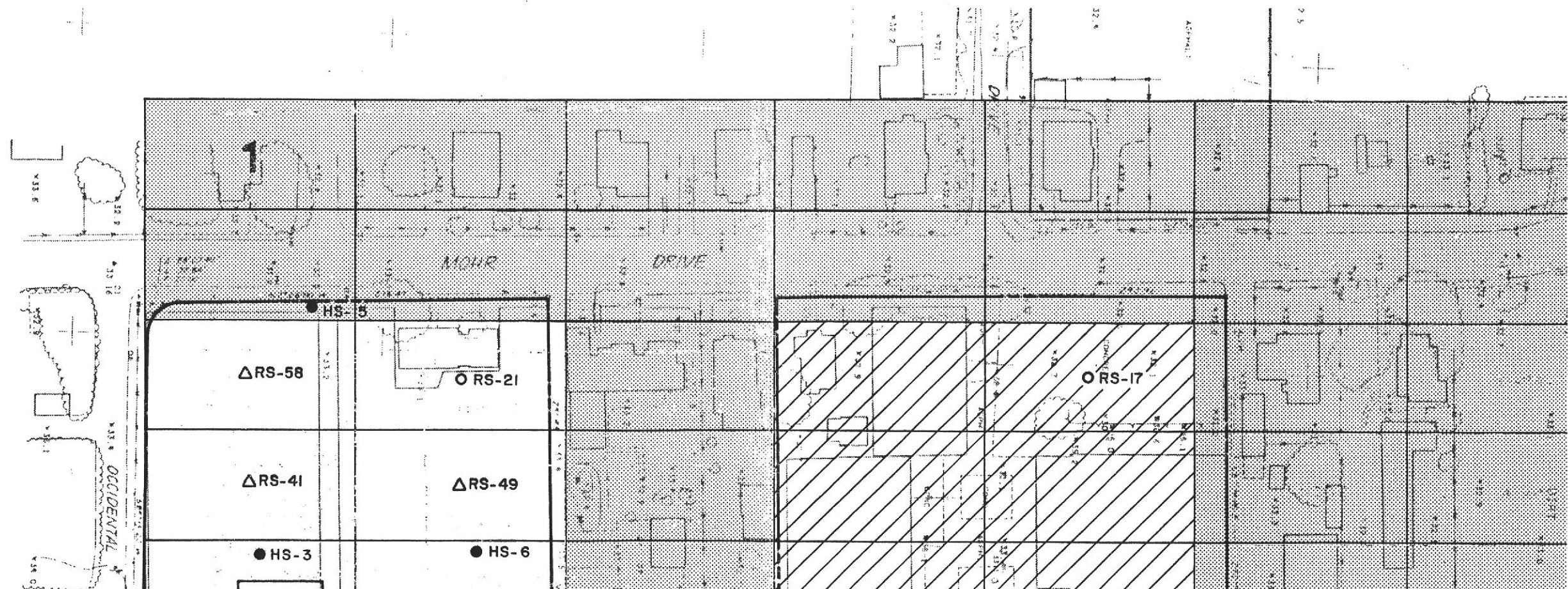
cc: Hugh Murphy, Hayward Fire Department
Rich Hiatt, California Regional Water Quality Control Board
Laura Rice, The Plymouth Group
Scott Wolff, Environmental Risk Sciences

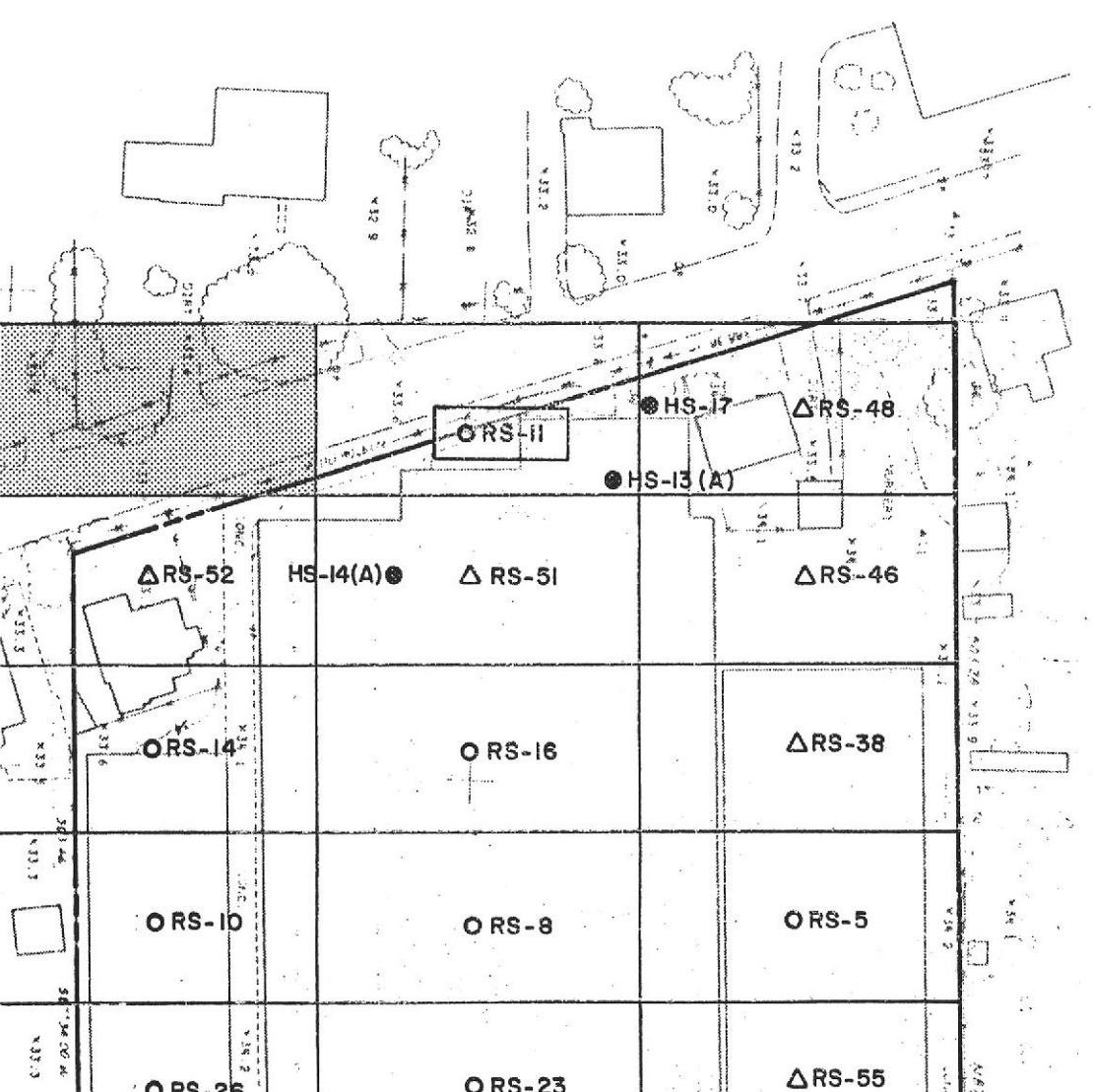


SUMMARY OF RECENT PESTICIDE TEST RESULTS ON NEAR-SURFACE SUNNYSIDE NURSERY SOILS (all values in parts per million - ppm)										
SAMPLE #	CHLOR-DANE	DDD	DDE	DDT	DIELDRIN	ENDRIN	ENDRIN KETONE	ENDOSULFAN		
								I	II	SULF-ATE
RS-1	N.D.	.083	.44	.37	N.D.	.040	N.D.	.25	.16	N.D.
RS-2	N.D.	.12	.79	.56	N.D.	.69	.69	.31	.27	.06
RS-3	N.D.	N.D.	N.D.	N.D.	N.D.	.042	.034	.026	.088	.30
RS-4	N.D.	.090	.11	.49	N.D.	.53	.059	.11	.14	.17
RS-5	N.D.	N.D.	N.D.	.059	N.D.	.056	.053	N.D.	.018	.043
RS-6	N.D.	N.D.	N.D.	N.D.	N.D.	.19	N.D.	1.3	.69	.043
RS-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-8	N.D.	N.D.	.018	.038	N.D.	.020	.020	.065	.090	.16
RS-9	N.D.	.060	.060	.37	N.D.	1.9	.20	.14	.48	.84
RS-10	.46	.026	.15	.097	N.D.	.11	N.D.	.056	.042	.40
RS-11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	28	15	6.2
RS-12	.077	N.D.	N.D.	N.D.	N.D.	.036	N.D.	.025	.062	.067
RS-13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-14	.13	N.D.	N.D.	.066	N.D.	.024	N.D.	.016	.092	.048
RS-15	N.D.	.018	.078	.035	N.D.	.018	N.D.	N.D.	N.D.	N.D.
RS-16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-18	N.D.	N.D.	N.D.	N.D.	N.D.	.035	N.D.	.90	.81	.25
RS-19	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-20	N.D.	.016	.054	.055	N.D.	.052	N.D.	.014	.071	.11
RS-21	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-22	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	14	8.7	2.4
RS-23	N.D.	N.D.	.030	N.D.	N.D.	.070	N.D.	.030	.033	.030
RS-24	N.D.	N.D.	N.D.	N.D.	.046	.046	N.D.	.068	N.D.	N.D.
RS-25	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-26	N.D.	N.D.	.032	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-27	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-28	N.D.	N.D.	N.D.	N.D.	N.D.	.089	N.D.	N.D.	.12	.21
RS-29	N.D.	.054	.21	.15	.038	.14	.047	N.D.	N.D.	.031
RS-30	N.D.	N.D.	.13	.10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-31	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
RS-32	N.D.	N.D.	N.D.	N.D.	N.D.	.032	N.D.	N.D.	N.D.	.038
RS-33	N.D.	N.D.	N.D.	N.D.	N.D.	.091	.035	.073	.27	.53
RS-34	1.9	.13	.23	.19	N.D.	1.2	.11	.10	.13	.15
RS-35	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	19	12	3.2
TOXIC*	2.5	1.0	1.0	1.0	8.0	0.2	0.2	3.5	3.5	3.5

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

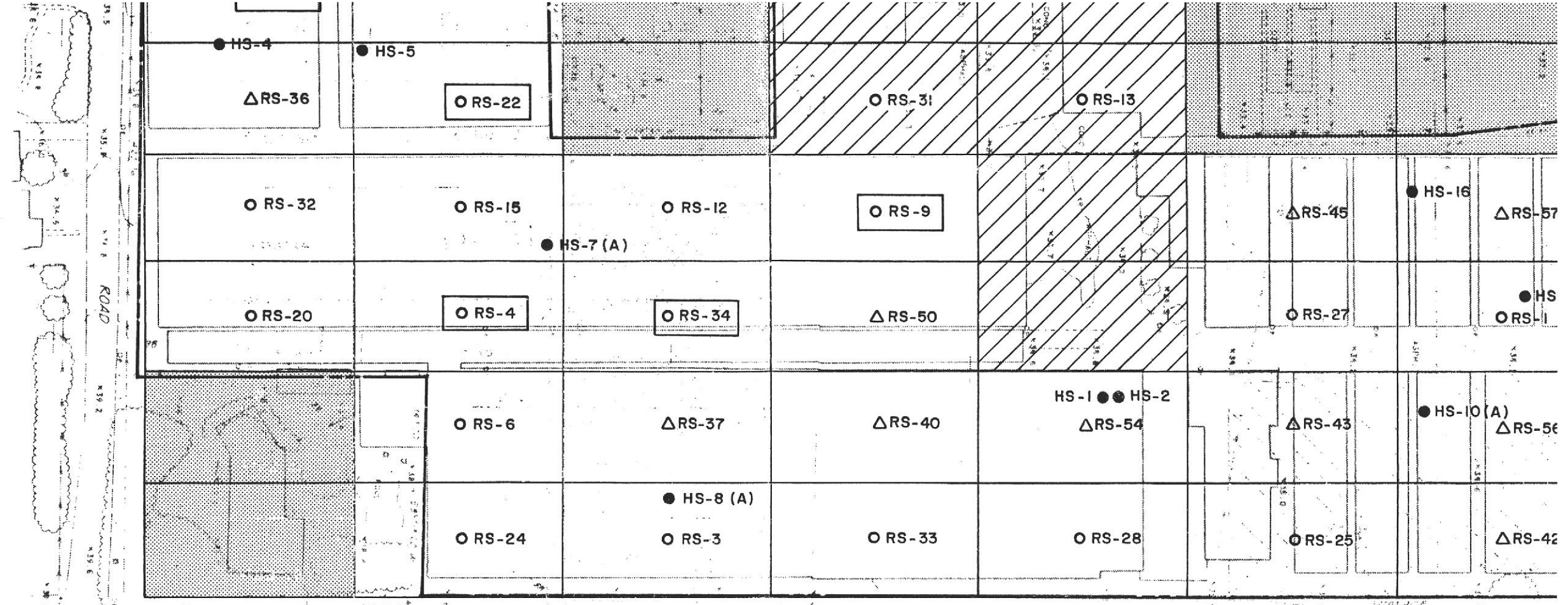






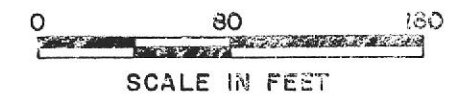
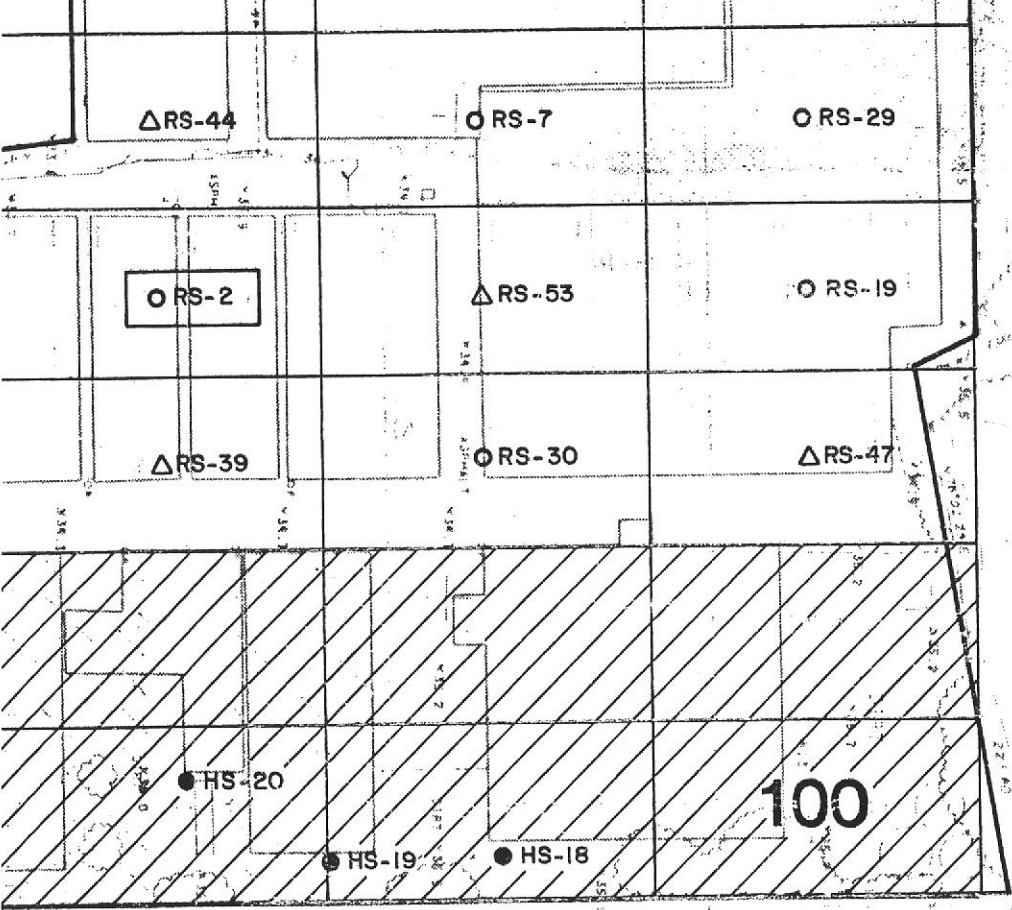
LEGEND

- HS-20 SHALLOW SOIL SAMPLE ("A" DESIGNATES RESAMPLE)
- RS-35 RANDOM SHALLOW SOIL SAMPLE (PHASE I)
- △ RS-58 RANDOM SHALLOW SOIL SAMPLE (PHASE II)
- RS-34 SOIL EXCEEDING TTLC OR "SAFE SOIL" LEVEL
- ▨ CELLS OUTSIDE PROPERTY BOUNDARY
- ▨ CELLS BEING EXCLUDED DUE TO PAVEMENT/SLAB



BASE MAP: "Boundary Topography, Plymouth - Hayward," prepared by
Cannis Consulting Engineers, dated February 1989

----- PROPERTY BOUNDARY



DATE	Nov. 1990	DWN BY	AMW	CHKD	ERL	APPR	
REVISIONS							
NO.	DATE	DWN	CHKD	APPR			
1	1/23/91	AMW	ERL		Added Phase II points		



SUNNYSIDE NURSERY
HAYWARD, CALIFORNIA

SITE PLAN

FIGURE
1
PROJECT
4454/5

APPENDIX

Chain of Custody Records

and

Analytical Laboratory Reports



TERRATECH

CHAIN OF CUSTODY RECORD

P.O. NO. 526

TURNAROUND: 2-week

PROJECT NUMBER: <u># 4454/5</u>						Number of Containers	Analysis Required <i>Chloride Residues (EPA)</i>										REMARKS	
SAMPLERS (signature): <i>Geoff Blain</i>																		
Station Number	Date 1992	Time	Comp.	Grab	Station Location												SAMPLE DEPTH	
RS-1	12/12	PM			Greenhouse	1 strike												6"-12"
RS-2	12/12	PM			"	steel liner												
RS-3	12/12	PM			"													
RS-4	12/12	PM			"													
RS-5	12/11	PM			"													
RS-6	12/12	PM			"													
RS-7	12/12	AM			"													
RS-8	12/11	PM			"													
RS-9	12/12	PM			"													
RS-10	12/11	PM			"													
Relinquished by (signature): <i>Geoff Blain</i>		Date / Time		Received by (signature): <i>N. J.</i>		Date / Time		Relinquished by (signature):		Date / Time		Received by (signature):		Company or Agency:		Company or Agency:		
Company or Agency: TERRATECH, INC.		12/13/92 10:35				12/13/92 10:35												
Relinquished by (signature):		Date / Time		Received by (signature):		Date / Time		Relinquished by:		Date / Time		Received by (signature):		Company or Agency:		Company or Agency:		
Company or Agency:				Company or Agency:				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: TERRATECH, INC.		12/13/92 10:35		<i>N. J.</i>		12/13/92 10:35		Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112										



TERRATECH

CHAIN OF CUSTODY RECORD

P.O. NO. 5261

TURNAROUND: 2-week

PROJECT NUMBER: <u>#4454/5</u>						Number of Containers	Analysis Required <i>Chlorinated Pesticides</i> <i>CEPA 8000</i>								REMARKS	SAMPLE DEPTH		
SAMPLERS (signature): <i>Golf Blair</i>							1 stainless steel liner										cold proper container 6"-12"	
Station Number	Date 1990	Time	Comp.	Grab	Station Location													
RS-21	12/12	PM			Greenhouse													
RS-22	12/2				"													
RS-23	12/11				"													
RS-24	12/12				"													
RS-25	12/12				"													
RS-26	12/11				"													
RS-27	12/12				"													
RS-28	12/12				"													
RS-29	12/11				"													
RS-30	12/12				Asphalt Pavement													
Relinquished by (signature): <i>[Signature]</i>			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:			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:			Company or Agency:			
Relinquished by (signature): <i>[Signature]</i>			Date / Time 12/13/90 10:35			Received for Laboratory by (signature): <i>N. Sg</i>			Date / Time 12/13/90 10:35			Remarks/Shipping Information Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112						
Company or Agency: TERRATECH, INC.																		



TERRATECH

CHAIN OF CUSTODY RECORD

P.O. NO. 5261

TURNAROUND: 2-week

PROJECT NUMBER: #4454/5					Number of Containers	Analysis Required <i>Chlorinated Residues CEMA (3000)</i>	REMARKS		SAMPLE DEPTH		
Station Number	Date 1000	Time	Comp.	Grab			Station Location				
SAMPLERS (signature): <i>Scott Blain</i>											
RS-11	12/12	PM			Adjacent to Greenhouse	1 stainless steel liner					
RS-12	12/12				Greenhouse					6"-12"	
RS-13	12/12				"						
RS-14	12/12				Adjacent to Greenhouse						
RS-15	12/12				Greenhouse						
RS-16	12/11				"						
RS-17	12/12				Asphalt pavement						
RS-18	12/12				Greenhouse						
RS-19	12/11				"						
RS-20	12/12				"						
Relinquished by (signature): <i>Scott Blain</i>		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:		Date / Time		Received by (signature):	
Company or Agency:				Company or Agency:		Company or Agency:				Company or Agency:	
Relinquished by (signature): <i>Scott Blain</i>		Date / Time 12/13/90 10:35		Received for Laboratory by: (signature) <i>[Signature]</i>		Date / Time 12/13/90 1035		Remarks/Shipping Information Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112			
Company or Agency: TERRATECH, INC.											



TERRATECH

CHAIN OF CUSTODY RECORD

P.O. NO. 5261

TURNAROUND: 2-week

PROJECT NUMBER: #4454/5					Number of Containers	Analysis Required <i>Chlorinated Residuals CEPA 8000</i>	REMARKS	SAMPLE DEPTH
SAMPLERS (signature): <i>Jeff Blau</i>								
Station Number	Date 1090	Time	Comp.	Grab	Station Location			
RS-31	12/2	PM			Asphalt Pavement	1 Skidles steel line		6"-12"
RS-32					Greenhouse			
RS-33					"			
RS-34					"			
RS-35	↓	↓			"			
Relinquished by(signature): Company or Agency:		Date / Time	Received by (signature): Company or Agency:		Relinquished by(signature): Company or Agency:		Date / Time	Received by (signature): Company or Agency:
Relinquished by(signature): Company or Agency:		Date / Time	Received by (signature): Company or Agency:		Relinquished by: Company or Agency:		Date / Time	Received by (signature): Company or Agency:
Relinquished by(signature): Company or Agency: <i>Jeff Blau</i> TERRATECH, INC.		Date / Time 12/13/90 10:35	Received for Laboratory by: (signature) <i>N. S.</i>		Date / Time 12/11/90 10:35	Remarks/Shipping Information Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112		

ANAMETRIX INC

Environmental & Analytical Chemistry
 1961 Concourse Drive, Suite E, San Jose, CA 95131
 (408) 432-8192 • Fax (408) 432-8198

**REPORT**

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

Workorder # : 9012126
 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
9012126- 1	RS-1
9012126- 2	RS-2
9012126- 3	RS-3
9012126- 4	RS-4
9012126- 5	RS-5
9012126- 6	RS-6
9012126- 7	RS-7
9012126- 8	RS-8
9012126- 9	RS-9
9012126-10	RS-10
9012126-11	RS-11
9012126-12	RS-12
9012126-13	RS-13
9012126-14	RS-14
9012126-15	RS-15
9012126-16	RS-16
9012126-17	RS-17
9012126-18	RS-18
9012126-19	RS-19
9012126-20	RS-20

This report consists of 24 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

Burt Sutherland
 Laboratory Director

1-4-91

Date

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

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

Workorder # : 9012126
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
9012126- 1	RS-1	SOIL	12/12/90	8080
9012126- 2	RS-2	SOIL	12/12/90	8080
9012126- 3	RS-3	SOIL	12/12/90	8080
9012126- 4	RS-4	SOIL	12/12/90	8080
9012126- 5	RS-5	SOIL	12/11/90	8080
9012126- 6	RS-6	SOIL	12/12/90	8080
9012126- 7	RS-7	SOIL	12/12/90	8080
9012126- 8	RS-8	SOIL	12/11/90	8080
9012126- 9	RS-9	SOIL	12/12/90	8080
9012126-10	RS-10	SOIL	12/11/90	8080
9012126-11	RS-11	SOIL	12/12/90	8080
9012126-12	RS-12	SOIL	12/12/90	8080
9012126-13	RS-13	SOIL	12/12/90	8080
9012126-14	RS-14	SOIL	12/12/90	8080
9012126-15	RS-15	SOIL	12/12/90	8080
9012126-16	RS-16	SOIL	12/11/90	8080
9012126-17	RS-17	SOIL	12/12/90	8080
9012126-18	RS-18	SOIL	12/12/90	8080
9012126-19	RS-19	SOIL	12/11/90	8080
9012126-20	RS-20	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 # : 9012126
Date Received : 12/13/90
Project ID : 4454/5
Purchase Order: 5261
Department : GC
Sub-Department: PEST

QA/QC SUMMARY :

- The recovery for Lindane from one of the matrix spikes fell outside control limits. Also, the recoveries for Heptachlor and Endrin fell outside the limits due to matrix interference (presence of coeluting peaks in the spiked matrix).

Stratos Dimas 1-4-91
Department Supervisor Date

Stephanie N Tran 1-4-91
Chemist Date

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

Sample I.D. : 4454/5 RS-1
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : 9012126-01
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	250
72-55-9	p,p'-DDE	16	440
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	40
72-54-8	p,p'-DDD	16	83
33212-65-9	Endosulfan II	16	160
50-29-3	p,p'-DDT	16	370
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	ND
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	94%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-2
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : 9012126-02
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	
72-55-9	p,p'-DDE	16	310
60-57-1	Dieldrin	16	790
72-20-8	Endrin	16	ND
72-54-8	p,p'-DDD	16	690
33212-65-9	Endosulfan II	16	120
50-29-3	p,p'-DDT	16	270
7421-93-4	Endrin aldehyde	16	560
1031-07-8	Endosulfan sulfate	16	ND
72-43-5	p,p'-Methoxychlor	80	60
53494-70-5	Endrin ketone	16	690
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	92%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-3
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : 9012126-03
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	26
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	42
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	88
50-29-3	p,p'-DDT	16	ND
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	300
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	34
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	111%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-4
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : 9012126-04
 Analyst : ST
 Supervisor : SP
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	110
72-55-9	p,p'-DDE	16	110
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	530
72-54-8	p,p'-DDD	16	90
33212-65-9	Endosulfan II	16	140
50-29-3	p,p'-DDT	16	490
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	170
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	59
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchloroendate	20-150%	120%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-5
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : 9012126-05
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	ND
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	56
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	18
50-29-3	p,p'-DDT	16	59
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	43
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	53
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	113%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-6
Matrix : SOIL
Date sampled : 12/12/90
Date ext. : 12/19/90
Date analyzed: 12/20/90
Dilution : 2

Anamatrix I.D. : 9012126-06
Analyst : ST
Supervisor : SD
Date released : 01/04/91
Weight ext. : 10g
Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	16	ND
319-85-7	beta-BHC	16	ND
58-89-9	gamma-BHC (Lindane)	16	ND
319-86-8	delta-BHC	16	ND
76-44-8	Heptachlor	16	ND
309-00-2	Aldrin	16	ND
1024-57-3	Heptachlor epoxide	16	ND
959-98-8	Endosulfan I	16	1300
72-55-9	p,p'-DDE	32	ND
60-57-1	Dieldrin	32	ND
72-20-8	Endrin	32	190
72-54-8	p,p'-DDD	32	ND
33212-65-9	Endosulfan II	32	690
50-29-3	p,p'-DDT	32	ND
7421-93-4	Endrin aldehyde	32	ND
1031-07-8	Endosulfan sulfate	32	43
72-43-5	p,p'-Methoxychlor	160	ND
53494-70-5	Endrin ketone	32	ND
12789-03-6	Technical chlordane	160	ND
8001-35-2	Toxaphene	320	ND
1104-28-2	Aroclor 1221	160	ND
11141-16-5	Aroclor 1232	160	ND
53469-21-9	Aroclor 1242	160	ND
12672-29-6	Aroclor 1248	160	ND
11097-69-1	Aroclor 1254	320	ND
11096-82-5	Aroclor 1260	320	ND
12674-11-2	Aroclor 1016	160	ND
	Dibutylchlorendate	20-150%	99%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-7
Matrix : SOIL
Date sampled : 12/12/90
Date ext. : 12/19/90
Date analyzed: 12/20/90
Dilution : NONE

Anamatrix I.D. : 9012126-07
Analyst : ST
Supervisor : SD
Date released : 01/04/91
Weight ext. : 10g
Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	ND
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	ND
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	ND
50-29-3	p,p'-DDT	16	ND
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	ND
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	100%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-8
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : 9012126-08
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	65
72-55-9	p,p'-DDE	16	18
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	20
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	90
50-29-3	p,p'-DDT	16	38
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	160
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	20
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	100%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-9
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/19/90
 Dilution : 2

Anamatrix I.D. : 9012126-09
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	16	ND
319-85-7	beta-BHC	16	ND
58-89-9	gamma-BHC (Lindane)	16	ND
319-86-8	delta-BHC	16	ND
76-44-8	Heptachlor	16	ND
309-00-2	Aldrin	16	ND
1024-57-3	Heptachlor epoxide	16	ND
959-98-8	Endosulfan I	16	140
72-55-9	p,p'-DDE	32	60
60-57-1	Dieldrin	32	ND
72-20-8	Endrin	32	1900
72-54-8	p,p'-DDD	32	60
33212-65-9	Endosulfan II	32	480
50-29-3	p,p'-DDT	32	370
7421-93-4	Endrin aldehyde	32	ND
1031-07-8	Endosulfan sulfate	32	840
72-43-5	p,p'-Methoxychlor	160	ND
53494-70-5	Endrin ketone	32	200
12789-03-6	Technical chlordane	160	ND
8001-35-2	Toxaphene	320	ND
1104-28-2	Aroclor 1221	160	ND
11141-16-5	Aroclor 1232	160	ND
53469-21-9	Aroclor 1242	160	ND
12672-29-6	Aroclor 1248	160	ND
11097-69-1	Aroclor 1254	320	ND
11096-82-5	Aroclor 1260	320	ND
12674-11-2	Aroclor 1016	160	ND
	Dibutylchlorendate	20-150%	109%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-10
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/19/90
 Dilution : NONE

Anamatrix I.D. : 9012126-10
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	56
72-55-9	p,p'-DDE	16	150
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	110
72-54-8	p,p'-DDD	16	26
33212-65-9	Endosulfan II	16	420
50-29-3	p,p'-DDT	16	97
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	400
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	460
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	129%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-11
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : 30

Anametrix I.D. : 9012126-11
 Analyst : *ST*
 Supervisor : *SD*
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	240	ND
319-85-7	beta-BHC	240	ND
58-89-9	gamma-BHC (Lindane)	240	ND
319-86-8	delta-BHC	240	ND
76-44-8	Heptachlor	240	ND
309-00-2	Aldrin	240	ND
1024-57-3	Heptachlor epoxide	240	ND
959-98-8	Endosulfan I	240	28000
72-55-9	p,p'-DDE	480	ND
60-57-1	Dieldrin	480	ND
72-20-8	Endrin	480	ND
72-54-8	p,p'-DDD	480	ND
33212-65-9	Endosulfan II	480	15000
50-29-3	p,p'-DDT	480	ND
7421-93-4	Endrin aldehyde	480	ND
1031-07-8	Endosulfan sulfate	480	6200
72-43-5	p,p'-Methoxychlor	2400	ND
53494-70-5	Endrin ketone	480	ND
12789-03-6	Technical chlordane	2400	ND
8001-35-2	Toxaphene	4800	ND
1104-28-2	Aroclor 1221	2400	ND
11141-16-5	Aroclor 1232	2400	ND
53469-21-9	Aroclor 1242	2400	ND
12672-29-6	Aroclor 1248	2400	ND
11097-69-1	Aroclor 1254	4800	ND
11096-82-5	Aroclor 1260	4800	ND
12674-11-2	Aroclor 1016	2400	ND
	Dibutylchlorendate	20-150%	NR

ND : Not detected at or above the practical quantitation limit for the method.

NR : Surrogate not reported due to the high dilution for analysis.

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

Sample I.D. : 4454/5 RS-12
Matrix : SOIL
Date sampled : 12/12/90
Date ext. : 12/19/90
Date analyzed: 12/19/90
Dilution : NONE

Anamatrix I.D. : 9012126-12
Analyst : SF
Supervisor : SD
Date released : 01/04/91
Weight ext. : 10g
Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	25
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	36
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	62
50-29-3	p,p'-DDT	16	ND
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	67
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	77
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	111%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-13
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/19/90
 Dilution : NONE

Anamatrix I.D. : 9012126-13
 Analyst : JT
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	ND
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	ND
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	ND
50-29-3	p,p'-DDT	16	ND
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	ND
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	109%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-14
Matrix : SOIL
Date sampled : 12/12/90
Date ext. : 12/19/90
Date analyzed: 12/20/90
Dilution : NONE

Anamatrix I.D. : 9012126-14
Analyst : ST
Supervisor : SD
Date released : 01/04/91
Weight ext. : 10g
Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	16
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	24
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	92
50-29-3	p,p'-DDT	16	66
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	48
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	130
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	115%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-15
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : 9012126-15
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	ND
72-55-9	p,p'-DDE	16	78
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	18
72-54-8	p,p'-DDD	16	18
33212-65-9	Endosulfan II	16	ND
50-29-3	p,p'-DDT	16	35
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	ND
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	109%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-16
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : 9012126-16
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	ND
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	ND
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	ND
50-29-3	p,p'-DDT	16	ND
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	ND
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	92%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-17
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anametrix I.D. : 9012126-17
 Analyst : *ST*
 Supervisor : *SD*
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	ND
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	ND
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	ND
50-29-3	p,p'-DDT	16	ND
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	ND
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchloroendate	20-150%	99%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-18
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : 9012126-18
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	900
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	35
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	810
50-29-3	p,p'-DDT	16	ND
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	250
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	120%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-19
Matrix : SOIL
Date sampled : 12/12/90
Date ext. : 12/19/90
Date analyzed: 12/20/90
Dilution : NONE

Anamatrix I.D. : 9012126-19
Analyst : ST
Supervisor : SD
Date released : 01/04/91
Weight ext. : 10g
Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	ND
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	ND
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	ND
50-29-3	p,p'-DDT	16	ND
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	ND
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	92%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : 4454/5 RS-20
 Matrix : SOIL
 Date sampled : 12/12/90
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : 9012126-20
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	14
72-55-9	p,p'-DDE	16	54
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	52
72-54-8	p,p'-DDD	16	16
33212-65-9	Endosulfan II	16	71
50-29-3	p,p'-DDT	16	55
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	110
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchlorendate	20-150%	111%

ND : Not detected at or above the practical quantitation limit for the method.

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

Sample I.D. : METHOD BLANK
 Matrix : SOIL
 Date sampled : N/A
 Date ext. : 12/19/90
 Date analyzed: 12/20/90
 Dilution : NONE

Anamatrix I.D. : PSBLK122090
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Weight ext. : 10g
 Instrument ID : HP16

CAS #	Compound Name	Reporting Limit (ug/Kg)	Amount Found (ug/Kg)
319-84-6	alpha-BHC	8	ND
319-85-7	beta-BHC	8	ND
58-89-9	gamma-BHC (Lindane)	8	ND
319-86-8	delta-BHC	8	ND
76-44-8	Heptachlor	8	ND
309-00-2	Aldrin	8	ND
1024-57-3	Heptachlor epoxide	8	ND
959-98-8	Endosulfan I	8	ND
72-55-9	p,p'-DDE	16	ND
60-57-1	Dieldrin	16	ND
72-20-8	Endrin	16	ND
72-54-8	p,p'-DDD	16	ND
33212-65-9	Endosulfan II	16	ND
50-29-3	p,p'-DDT	16	ND
7421-93-4	Endrin aldehyde	16	ND
1031-07-8	Endosulfan sulfate	16	ND
72-43-5	p,p'-Methoxychlor	80	ND
53494-70-5	Endrin ketone	16	ND
12789-03-6	Technical chlordane	80	ND
8001-35-2	Toxaphene	160	ND
1104-28-2	Aroclor 1221	80	ND
11141-16-5	Aroclor 1232	80	ND
53469-21-9	Aroclor 1242	80	ND
12672-29-6	Aroclor 1248	80	ND
11097-69-1	Aroclor 1254	160	ND
11096-82-5	Aroclor 1260	160	ND
12674-11-2	Aroclor 1016	80	ND
	Dibutylchloroendate	20-150%	114%

ND : Not detected at or above the practical quantitation limit for the method.

CLP PESTICIDE MATRIX SPIKE REPORT
 EPA METHOD 8080
 ANAMETRIX, INC. (408)432-8192

SAMPLE I.D. : 4454/5 RS-11
 Matrix : SOIL
 Date sampled : 12/11/90
 Date extracted: 12/14/90
 Date analyzed : 12/21/90

Anamatrix I.D. : 9012126-11
 Analyst : ST
 Supervisor : SD
 Date released : 01/04/91
 Instrument I.D.: HP16

COMPOUND	SPIKE AMT. (UG/KG)	MS (UG/KG)	%REC MS	MSD (UG/KG)	%REC MSD	RPD	%REC LIMITS
Lindane	80	46	57%	40	50%	-14%	56-123%
Heptachlor	80	NR	NR	NR	NR		40-131%
Aldrin	80	52	65%	46	57%	-12%	40-120%
Dieldrin	200	134	67%	124	62%	-8%	54-126%
Endrin	200	100	50%	NR	NR		56-121%
p,p'-DDT	200	182	91%	152	76%	-18%	23-134%

* Limits established by EPA

NR : Not reported due to matrix interference.

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105
110

9012126

10/10/12

1019



TERRATECH

CHAIN OF CUSTODY RECORD

P.O. NO. 524

TURNAROUND: 2-weeks

PROJECT NUMBER: #4454/5						Number of Containers	Analysts Required	Chloride Residuals (CPM)	REMARKS	SAMPLE DEPTH	
SAMPLERS (signature): Jeff Blaw											
Station Number	Date 1990	Time	Comp.	Grab	Station Location						
① RS-1	12/12	PM			Greenhouse	1 strike Steel bar	X			Cold, good water (at) 6"-12"	
② RS-2	12/12	PM			"		X				
③ RS-3	12/12	PM			"		X				
④ RS-4	12/12	PM			"		X				
⑤ RS-5	12/11	PM			"		X				
⑥ RS-6	12/12	PM			"		X				
⑦ RS-7	12/12	PM			"		X				
⑧ RS-8	12/11	PM			"		X				
⑨ RS-9	12/12	PM			"		X				
⑩ RS-10	12/11	PM			"		X				
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:		Date / Time		Received by (signature):	
Company or Agency:				Company or Agency:		Company or Agency:				Company or Agency:	
Relinquished by (signature): Jeff Blaw		Date / Time 12/13/90 10:35		Received for Laboratory by (signature): N. [Signature]		Date / Time 12/13/90 10:35		Remarks/Shipping Information Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112			
Company or Agency: TERRATECH, INC.											

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TERRATECH

CHAIN OF CUSTODY RECORD

P.O. NO. 5261

TURNAROUND: 2-week

PROJECT NUMBER: #4454/5						Number of Containers	Analysis Required <i>Chlorinated Hydrocarbons CEPA 300b</i>	REMARKS	SAMPLE DEPTH		
SAMPLERS (signature): <i>Scott Blair</i>											
Station Number	Date MM/DD	Time	Comp.	Grab	Station Location						
11	RS-11	12/12	PM		Adjacent to Greenhouse	1 Sample Steel liner	X			Gold preparation @	6"-12"
12	RS-12	12/12			Greenhouse		X				
13	RS-13	12/12			"		X				
14	RS-14	12/12			Adjacent to Greenhouse		X				
15	RS-15	12/12			Greenhouse		X				
16	RS-16	12/11			"		X				
17	RS-17	12/12			Asphalt pavement		X				
18	RS-18	12/12			Greenhouse		X				
19	RS-19	12/11			"		X				
20	RS-20	12/12			"		X				
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:		Date / Time		Received by (signature):
Company or Agency:					Company or Agency:		Company or Agency:				Company or Agency:
Relinquished by (signature): <i>Scott Blair</i>			Date / Time 12/13/90 10:35		Received for Laboratory by: (signature) <i>K.D. [Signature]</i>		Date / Time 12/13/90 1035		Remarks/Shipping Information Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112		
Company or Agency: TERRATECH, INC.											

JAN 03 1990

RECEIVED



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

Workorder # : 9012127
Date Received : 12/13/90
Project ID : 4454/5
Purchase Order: 5261

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

ANAMETRIX ID	CLIENT SAMPLE ID
9012127- 1	RS-21
9012127- 2	RS-22
9012127- 3	RS-23
9012127- 4	RS-24
9012127- 5	RS-25
9012127- 6	RS-26
9012127- 7	RS-27
9012127- 8	RS-28
9012127- 9	RS-29
9012127-10	RS-30
9012127-11	RS-31
9012127-12	RS-32
9012127-13	RS-33
9012127-14	RS-34
9012127-15	RS-35

This report consists of 20 pages not including the cover letter, and is organized in sections according to the specific Anametrix 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 Anametrix 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.

Anametrix 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 Accrediation 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 Anametrix.

Burt Sutherland

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 # : 9012127
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
9012127- 1	RS-21	SOIL	12/12/90	8080
9012127- 2	RS-22	SOIL	12/12/90	8080
9012127- 3	RS-23	SOIL	12/11/90	8080
9012127- 4	RS-24	SOIL	12/12/90	8080
9012127- 5	RS-25	SOIL	12/12/90	8080
9012127- 6	RS-26	SOIL	12/11/90	8080
9012127- 7	RS-27	SOIL	12/12/90	8080
9012127- 8	RS-28	SOIL	12/12/90	8080
9012127- 9	RS-29	SOIL	12/11/90	8080
9012127-10	RS-30	SOIL	12/12/90	8080
9012127-11	RS-31	SOIL	12/12/90	8080
9012127-12	RS-32	SOIL	12/12/90	8080
9012127-13	RS-33	SOIL	12/12/90	8080
9012127-14	RS-34	SOIL	12/12/90	8080
9012127-15	RS-35	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 # : 9012127
Date Received : 12/13/90
Project ID : 4454/5
Purchase Order: 5261
Department : GC
Sub-Department: PEST

QA/QC SUMMARY :

No surrogate recovery on samples -02,-15 due to large dilution.

Stratos Jimms 1-2-91
Department Supervisor Date

Stephanie N Tran 1-2-91
Chemist Date

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

Project ID : 4454/5
 Sample ID : RS-21
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/21/90
 Instrument ID : HP16

Anamatrix ID : 9012127-01
 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	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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-22
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/21/90
 Instrument ID : HP16

Anamatrix ID : 9012127-02
 Analyst : ST
 Supervisor : SD

Dilution Factor : 16.67
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	130.	ND	U
319-85-7	beta-BHC	130.	ND	U
319-86-8	delta-BHC	130.	ND	U
58-89-9	gamma-BHC	130.	ND	U
76-44-8	Heptachlor	130.	ND	U
309-00-2	Aldrin	130.	ND	U
1024-57-3	Hept. epoxide	130.	ND	U
959-98-8	Endosulfan I	130.	14000.	E
60-57-1	Dieldrin	270.	ND	U
72-55-9	4,4'-DDE	270.	ND	U
72-20-8	Endrin	270.	ND	U
33213-65-9	Endosulfan II	270.	8700.	E
72-54-8	4,4'-DDD	270.	ND	U
1031-07-8	Endo.sulfate	270.	2400.	
50-29-3	4,4'-DDT	270.	ND	U
72-43-5	Methoxychlor	1300.	ND	U
53494-70-5	Endrin ketone	270.	ND	U
57-74-9	Tech. chlordane	1300.	ND	U
8001-35-2	Toxaphene	2700.	ND	U
12674-11-2	Aroclor-1016	1300.	ND	U
11104-28-2	Aroclor-1221	1300.	ND	U
11141-16-5	Aroclor-1232	1300.	ND	U
53469-21-9	Aroclor-1242	1300.	ND	U
12672-29-6	Aroclor-1248	1300.	ND	U
11097-69-1	Aroclor-1254	2700.	ND	U
11096-82-5	Aroclor-1260	2700.	ND	U
7421-93-4	Endrin Aldehyde	270.	ND	U

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

Project ID : 4454/5
 Sample ID : RS-23
 Matrix : SOIL
 Date Sampled : 12/11/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/21/90
 Instrument ID : HP16

Anamatrix ID : 9012127-03
 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	30.	U
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	30.	U
72-20-8	Endrin	16.	70.	U
33213-65-9	Endosulfan II	16.	33.	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	30.	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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-24
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/21/90
 Instrument ID : HP16

Anamatrix ID : 9012127-04
 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	68.	
60-57-1	Dieldrin	16.	46.	
72-55-9	4,4'-DDE	16.	ND	U
72-20-8	Endrin	16.	46.	
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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-25
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/21/90
 Instrument ID : HP16

Anametrix ID : 9012127-05
 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	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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-26
 Matrix : SOIL
 Date Sampled : 12/11/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/22/90
 Instrument ID : HP16

Anametrix ID : 9012127-06
 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.	32.	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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-27
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/22/90
 Instrument ID : HP16

Anamatrix ID : 9012127-07
 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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-28
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/22/90
 Instrument ID : HP16

Anamatrix ID : 9012127-08
 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.	89.	U
33213-65-9	Endosulfan II	16.	120.	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	210.	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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-29
 Matrix : SOIL
 Date Sampled : 12/11/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/22/90
 Instrument ID : HP16

Anamatrix ID : 9012127-09
 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.	38.	U
72-55-9	4,4'-DDE	16.	210.	
72-20-8	Endrin	16.	140.	
33213-65-9	Endosulfan II	16.	ND	U
72-54-8	4,4'-DDD	16.	54.	
1031-07-8	Endo.sulfate	16.	31.	
50-29-3	4,4'-DDT	16.	150.	
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	47.	
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-30
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/22/90
 Instrument ID : HP16

Anamatrix ID : 9012127-10
 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.	130.	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.	100.	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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-31
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/22/90
 Instrument ID : HP16

Anamatrix ID : 9012127-11
 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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-32
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/22/90
 Instrument ID : HP16

Anamatrix ID : 9012127-12
 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.	32.	U
33213-65-9	Endosulfan II	16.	ND	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	38.	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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-33
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/22/90
 Instrument ID : HP16

Anamatrix ID : 9012127-13
 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	73.	U
60-57-1	Dieldrin	16.	ND	U
72-55-9	4,4'-DDE	16.	ND	U
72-20-8	Endrin	16.	91.	U
33213-65-9	Endosulfan II	16.	270.	U
72-54-8	4,4'-DDD	16.	ND	U
1031-07-8	Endo.sulfate	16.	530.	E
50-29-3	4,4'-DDT	16.	ND	U
72-43-5	Methoxychlor	80.	ND	U
53494-70-5	Endrin ketone	16.	35.	U
57-74-9	Tech. chlordane	80.	ND	U
8001-35-2	Toxaphene	160.	ND	U
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : RS-34
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/27/90
 Instrument ID : HP16

Anamatrix ID : 9012127-14
 Analyst : SK
 Supervisor : SD

Dilution Factor : 3.33
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	27.	ND	U
319-85-7	beta-BHC	27.	ND	U
319-86-8	delta-BHC	27.	ND	U
58-89-9	gamma-BHC	27.	ND	U
76-44-8	Heptachlor	27.	ND	U
309-00-2	Aldrin	27.	ND	U
1024-57-3	Hept. epoxide	27.	ND	U
959-98-8	Endosulfan I	27.	100.	
60-57-1	Dieldrin	53.	ND	U
72-55-9	4,4'-DDE	53.	230.	
72-20-8	Endrin	53.	1200.	
33213-65-9	Endosulfan II	53.	130.	
72-54-8	4,4'-DDD	53.	130.	
1031-07-8	Endo.sulfate	53.	150.	
50-29-3	4,4'-DDT	53.	190.	
72-43-5	Methoxychlor	270.	ND	U
53494-70-5	Endrin ketone	53.	110.	
57-74-9	Tech. chlordane	270.	1900.	
8001-35-2	Toxaphene	530.	ND	U
12674-11-2	Aroclor-1016	270.	ND	U
11104-28-2	Aroclor-1221	270.	ND	U
11141-16-5	Aroclor-1232	270.	ND	U
53469-21-9	Aroclor-1242	270.	ND	U
12672-29-6	Aroclor-1248	270.	ND	U
11097-69-1	Aroclor-1254	530.	ND	U
11096-82-5	Aroclor-1260	530.	ND	U
7421-93-4	Endrin Aldehyde	54.	ND	U

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

Project ID : 4454/5
 Sample ID : RS-35
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/22/90
 Instrument ID : HP16

Anamatrix ID : 9012127-15
 Analyst : *SK*
 Supervisor : *SD*

Dilution Factor : 33.33
 Conc. Units : UG/KG

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
319-84-6	alpha-BHC	270.	ND	U
319-85-7	beta-BHC	270.	ND	U
319-86-8	delta-BHC	270.	ND	U
58-89-9	gamma-BHC	270.	ND	U
76-44-8	Heptachlor	270.	ND	U
309-00-2	Aldrin	270.	ND	U
1024-57-3	Hept. epoxide	270.	ND	U
959-98-8	Endosulfan I	270.	19000.	E
60-57-1	Dieldrin	530.	ND	U
72-55-9	4,4'-DDE	530.	ND	U
72-20-8	Endrin	530.	ND	U
33213-65-9	Endosulfan II	530.	12000.	
72-54-8	4,4'-DDD	530.	ND	U
1031-07-8	Endo.sulfate	530.	3200.	
50-29-3	4,4'-DDT	530.	ND	U
72-43-5	Methoxychlor	2700.	ND	U
53494-70-5	Endrin ketone	530.	ND	U
57-74-9	Tech. chlordane	2700.	ND	U
8001-35-2	Toxaphene	5300.	ND	U
12674-11-2	Aroclor-1016	2700.	ND	U
11104-28-2	Aroclor-1221	2700.	ND	U
11141-16-5	Aroclor-1232	2700.	ND	U
53469-21-9	Aroclor-1242	2700.	ND	U
12672-29-6	Aroclor-1248	2700.	ND	U
11097-69-1	Aroclor-1254	5300.	ND	U
11096-82-5	Aroclor-1260	5300.	ND	U
7421-93-4	Endrin Aldehyde	540.	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 : 12/12/90
 Amount Extracted : 10.0 g
 Date Analyzed : 12/21/90
 Instrument ID : HP16

Anamatrix ID : PSBLK122090
 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	8.0	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
12674-11-2	Aroclor-1016	80.	ND	U
11104-28-2	Aroclor-1221	80.	ND	U
11141-16-5	Aroclor-1232	80.	ND	U
53469-21-9	Aroclor-1242	80.	ND	U
12672-29-6	Aroclor-1248	80.	ND	U
11097-69-1	Aroclor-1254	160.	ND	U
11096-82-5	Aroclor-1260	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 : 9012127
 Analyst : SJ
 Supervisor : SD

	SAMPLE ID	SU1	TOTAL OUT
1	BLANK	128	0
2	RS-21	85	0
3	RS-22	0 *	1
4	RS-23	69	0
5	RS-24	78	0
6	RS-25	94	0
7	RS-26	88	0
8	RS-27	58	0
9	RS-28	67	0
10	RS-29	94	0
11	RS-30	87	0
12	RS-31	95	0
13	RS-32	82	0
14	RS-33	91	0
15	RS-35	0 *	1
16	RS-21MS	81	0
17	RS-21MSD	85	0
18	RS-34	130	0
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

QC LIMITS

SU1 = DBC

 (20-150)

* Values outside of Anamatrix QC limits

MATRIX SPIKE RECOVERY FORM -- EPA METHOD 608/8080
 ANAMETRIX, INC. (408)432-8192

Project ID : 4454/5
 Sample ID : RS-21
 Matrix : SOIL
 Date Sampled : 12/12/90
 Date Extracted : 12/20/90
 Date Analyzed : 12/22/90

Anamatrix ID : 9012127-01 MSD
 Analyst :
 Supervisor : SD
 Instrument ID : HP16

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC	%REC LIMITS
gamma-BHC	26.00	.00	22.52	87	46-127
Heptachlor	26.00	.00	23.77	91	35-130
Aldrin	26.00	.00	26.54	102	34-132
Dieldrin	65.00	.00	52.86	81	31-134
Endrin	65.00	.00	57.66	89	42-139
4,4'-DDT	65.00	.00	53.87	83	23-134

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC	% RPD	RPD LIMITS	%REC LIMITS
gamma-BHC	26.00	22.29	86	1	50	46-127
Heptachlor	26.00	20.97	81	12	31	35-130
Aldrin	26.00	25.50	98	4	43	34-132
Dieldrin	65.00	54.30	84	3	38	31-134
Endrin	65.00	58.55	90	2	45	42-139
4,4'-DDT	65.00	54.43	84	1	50	23-134

Value is outside of Anamatrix QC limits

RPD: 0 out of 6 outside limits
 Spike Recovery: 0 out of 12 outside limits

NS
1130



TERRATECH

9012127

PS 1 of 2

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CHAIN OF CUSTODY RECORD

P.O. NO. 5261

TURNAROUND: 2-week

PROJECT NUMBER: #4454/5						Number of Containers	Analysis Required <i>Chlorinated Pesticides (EPA 8260)</i>	REMARKS	SAMPLE DEPTH												
SAMPLERS (signature): <i>Jeff Blaw</i>																					
Station Number	Date (MM/DD)	Time	Comp.	Grab	Station Location																
① RS-21	12/12	PM			Greenbank	1 Steunk's Steel liner	X														
② RS-22	12/12				"		X														
③ RS-23	12/11				"		X														
④ RS-24	12/12				"		X														
⑤ RS-25	12/12				"		X														
⑥ RS-26	12/11				"		X														
⑦ RS-27	12/12				"		X														
⑧ RS-28	12/12				"		X														
⑨ RS-29	12/11				"		X														
⑩ RS-30	12/12				Asphalt pavement		X														
Relinquished by(signature): Company or Agency:		Date / Time		Received by (signature): Company or Agency:		Relinquished by(signature): Company or Agency:		Date / Time		Received by (signature): Company or Agency:											
Relinquished by(signature): Company or Agency:		Date / Time		Received by (signature): Company or Agency:		Relinquished by: Company or Agency:		Date / Time		Received by (signature): Company or Agency:											
Relinquished by(signature): Company or Agency: <i>Jeff Blaw</i> TERRATECH, INC.		Date / Time 12/13/90 10:35		Received for Laboratory by: (signature) <i>N. [Signature]</i>		Date / Time 12/13/90 10:35		Remarks/Shipping Information Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112													

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1130



TERRATECH

CHAIN OF CUSTODY RECORD

9012127

13 of 2

P.O. NO. 5261

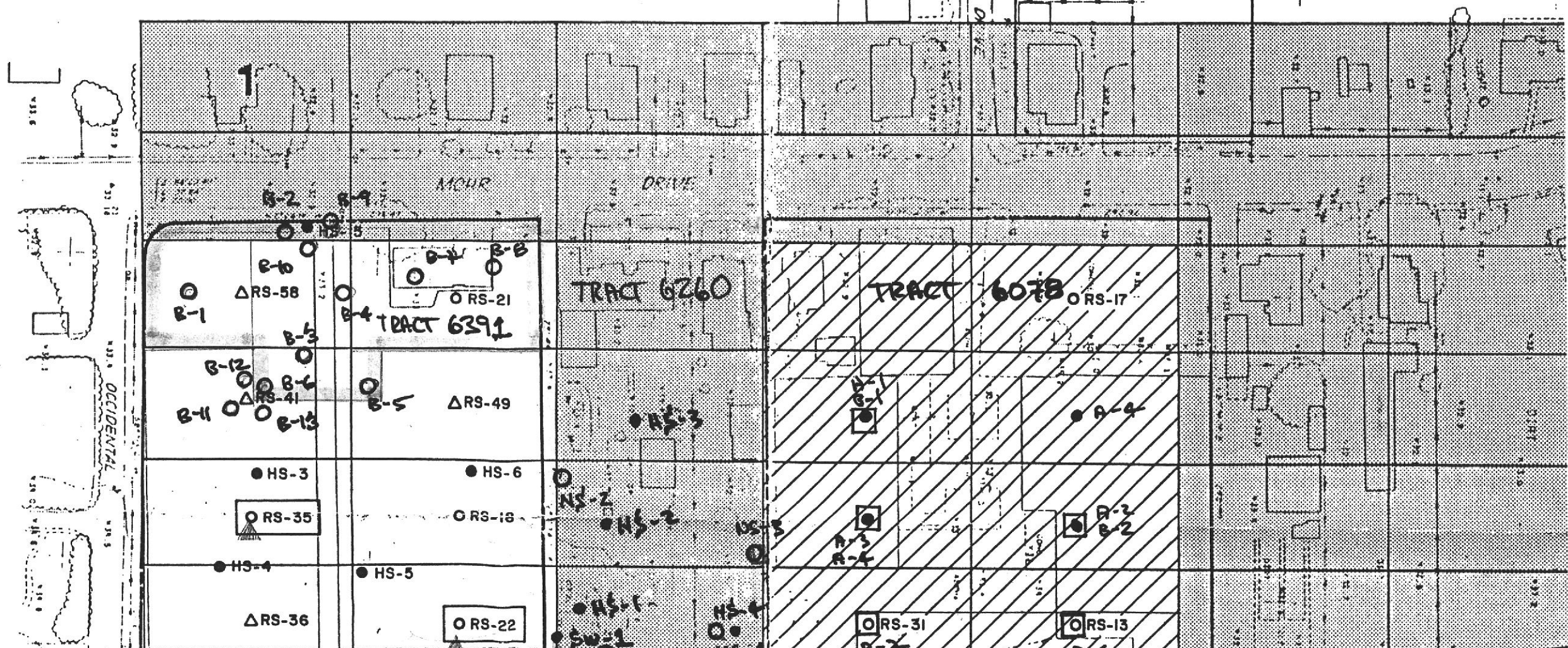
10/A

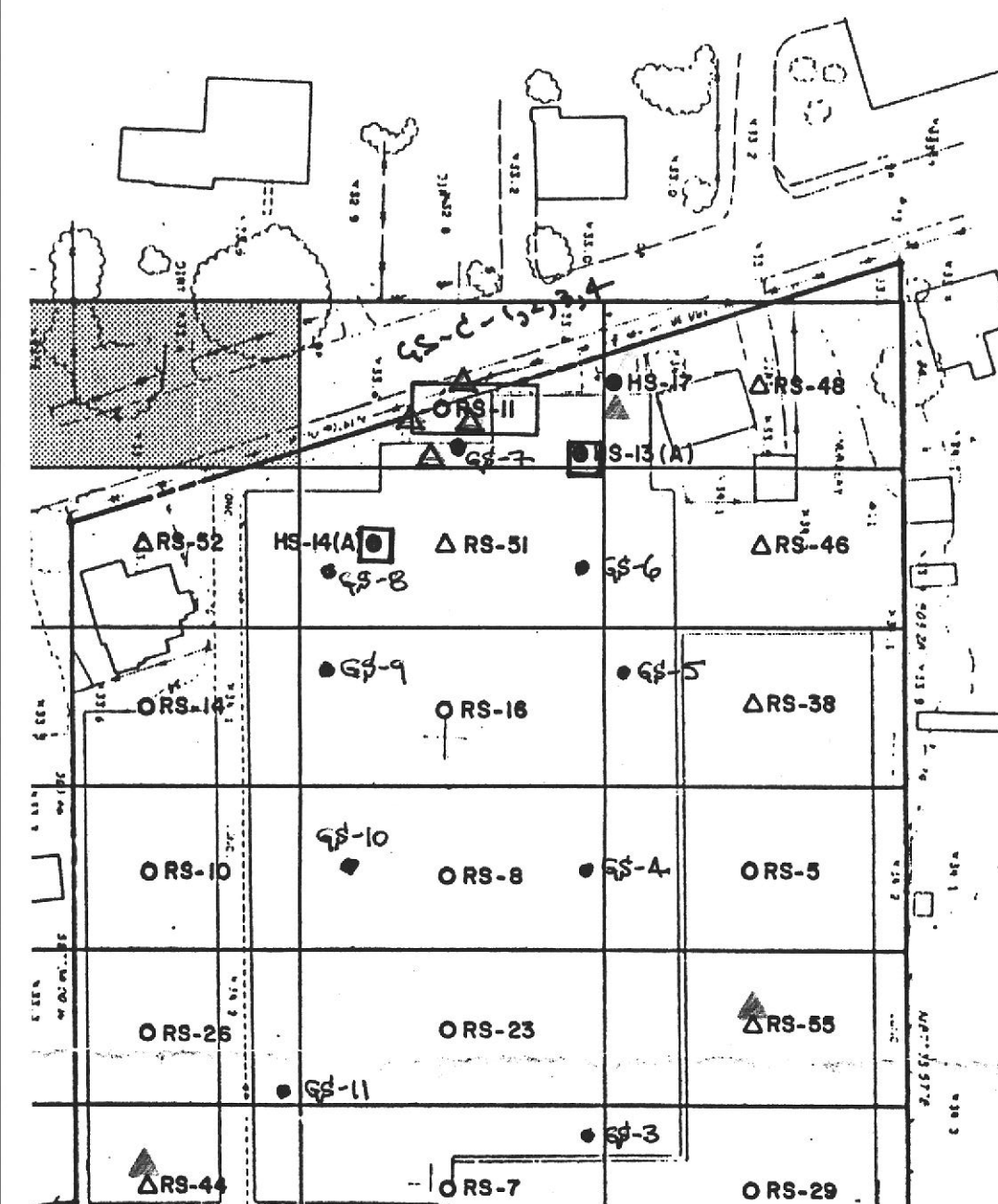
TURNAROUND: 2-weeks


PROJECT NUMBER: #4454/5						Number of Containers	Analysis Required <i>Chloride Residues LEAD BLDG</i>						REMARKS				
SAMPLERS (signature): <i>Geoff Blaw</i>																	
Station Number	Date 1990	Time	Comp.	Grab	Station Location							SAMPLE DEPTH					
11 RS-31	12/12	PM			Asphalt Pavement	1 Samples	X						6"-12"				
12 RS-32					Greenhouse		X										
13 RS-33					"		X										
14 RS-34					"		X										
15 RS-35	▼	▼			"		X										
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:			Company or Agency:		
Relinquished by(signature):			Date / Time			Received by (signature):			Relinquished by:			Date / Time			Received by (signature):		
Company or Agency:						Company or Agency:			Company or Agency:			Company or Agency:			Company or Agency:		
Relinquished by(signature):			Date / Time			Received for Laboratory by:			Date / Time			Remarks/Shipping Information					
Company or Agency: <i>Geoff Blaw</i> TERRATECH, INC.			12/13/90 10:35			(signature) <i>N. S.</i>			12/13/90 1035			Send reports to: Eric Lautenbach 1365 VANDER WAY, SAN JOSE 95112					

SAMPLES A + B

- - SURFACE SAMPLE - GMX (3-6")
- - Near surface SAMPLE - GMX (2-18")

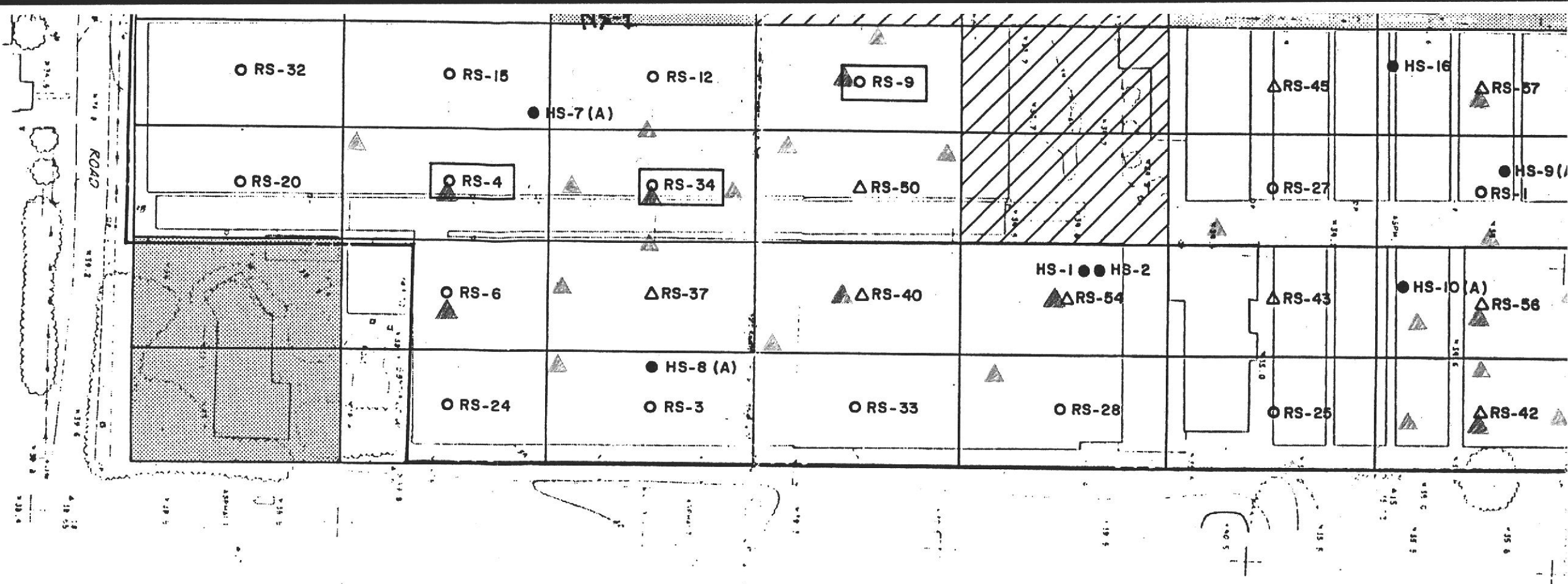





 COMPOSITE SAMPLE
 HS-11(A) - HS-14(B)

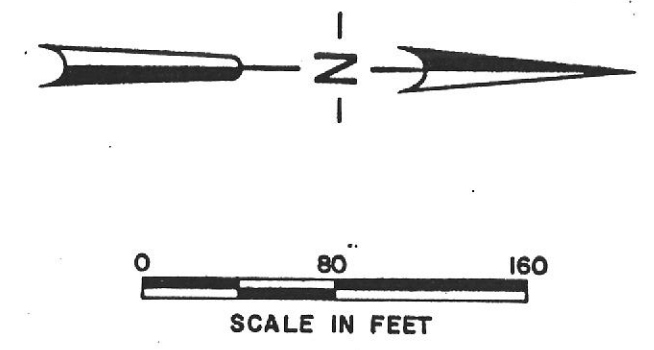
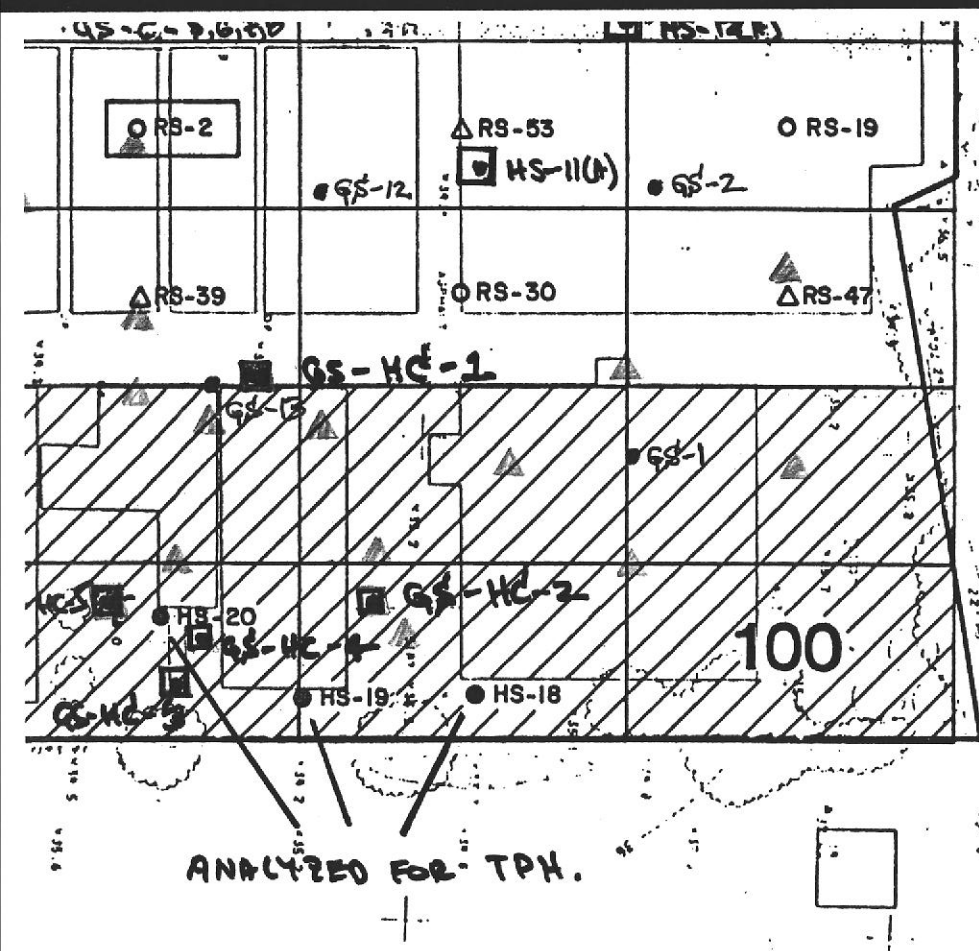
LEGEND

- HS-20 SHALLOW SOIL SAMPLE ("A" DESIGNATES RESAMPLE)
- ORS-35 RANDOM SHALLOW SOIL SAMPLE (PHASE I)
- △ RS-58 RANDOM SHALLOW SOIL SAMPLE (PHASE II)
- ◻ ORS-34 SOIL EXCEEDING TTLC OR "SAFE SOIL" LEVEL
- ▨ CELLS OUTSIDE PROPERTY BOUNDARY
- ▧ CELLS BEING EXCLUDED DUE TO PAVEMENT/SLAB COVER AND NO PESTICIDE APPLICATION
- PROPERTY BOUNDARY



- ▲ - Confirmation sampling
- ▲ - Supplemental sampling
- ▲ - Characterization, SAMPLED
- ▲ - Diesel characterization

BASE MAP: "Boundary Topography, Plymouth - Hayward," prepared by
Cannis Consulting Engineers, dated February 1989



TE Nov. 1990					DWN BY AMW					CHKD ERL					APPR				
REVISIONS																			
DATE	DWN	CHKD	APPR																
1/23/91	AMW	ERL		Added Phase II points															



SUNNYSIDE NURSERY
 HAYWARD, CALIFORNIA

SITE PLAN

FIGURE
 I

PROJECT
 4454/5