

October 6, 1997
1124-2A

Ms. Madhulla Logan
ALAMEDA COUNTY
ENVIRONMENTAL HEALTH SERVICES
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: **WORK PLAN**
15550 WASHINGTON AVENUE,
SAN LORENZO, CALIFORNIA

Dear Ms. Logan:

We are pleased to present this work plan to mix soil with residual agricultural pesticides at 15550 Washington Boulevard in San Lorenzo, California (Figure 1). This work plan was prepared on behalf of Centex Homes, who is planning to develop the property for either single-family or multi-family residential use. As you know, the California Department of Toxic Substances Control (DTSC) has allowed the mixing of soil to reduce pesticide concentrations on similar sites (DTSC, November 1, 1995).

This work plan presents the general steps and procedures to be used in the excavation and mixing of soil with residual pesticides. In addition, this work plan presents the verification sampling procedures to document that levels of the soil do not exceed the proposed cleanup goals, which are discussed below.

The approximately 7-acre property has historically been utilized for agricultural purposes. In addition to agricultural fields, the site is currently occupied by a house, a garage, barns, sheds, and other farm related structures.

To evaluate the presence of residual pesticides as a result of the former agricultural use, seven soil samples (SS-1 through SS-7) were randomly

Introduction

Purpose

Site Background

97 OCT - 6 AM 11:25
ENVIRONMENTAL
PROTECTION

collected from the site on August 26, 1997. The soil samples were randomly collected from the surface to approximately ½ foot. To further evaluate the extent of residual pesticides detected in soil samples SS-1 through SS-7, borings EB-1 through EB-23 were hand augered to depths of approximately 1½ feet on September 11, 1997. One boring was randomly located on each of 23 planned fourplex residential lots. Soil samples were collected from the surface to approximately ½ foot and from approximately 1 to 1½ feet from each boring. In addition, four soil samples (SS-12 through SS-15) were collected from the dirt floor of the on-site barn. Soil sample locations are shown in Figure 2, and soil sampling protocol is summarized in Attachment A.

Soil samples SS-1 through SS-7, and soil samples SS-12 through SS-15 (composite), were analyzed for organochlorine pesticides (EPA Test Method 8080), arsenic, lead, and mercury. Soil samples collected from borings EB-1 through EB-23 were also analyzed for organochlorine pesticides (EPA Test Method 8080). The analytical results are summarized on Table 1, and the complete analytical results are presented in Attachment B.

As shown in Table 1, laboratory analysis of soil samples collected from the upper 1 ½-foot from the site detected residual pesticides, including up to 5.3 parts per million (ppm) total DDT compounds. The mean DDT concentration exceeds the 1.0 ppm total threshold limit concentration (TTLC). The mean DDT concentration also exceeds the preliminary remedial goal (PRG) for total DDT of 1.3 ppm.

Remedial Goal Evaluation

Up to 0.26 ppm dieldrin, 0.43 endrin, and 0.26 ppm chlordane were also detected. The PRGs for dieldrin, endrin, and chlordane are 0.028 ppm, 20 ppm, and 0.34 ppm, respectively. In addition, the TTLCs for dieldrin, endrin, and chlordane are 8.0 ppm, 0.2 ppm, and 2.5 ppm.

TABLE 1. Analytical Results of Selected Soil Samples
(concentrations in parts per million)

Sample ID	Depth (feet)	Total DDT	Dieldrin	Endrin	Total Chlordane	Arsenic	Lead	Mercury
SS-1	0-1/2	ND	ND	ND	ND	6.6	<0.50	<0.10
SS-2	0-1/2	2.58	ND	ND	ND	2.6	19	<0.10
SS-3	0-1/2	5.50	ND	ND	ND	3.0	21	<0.10
SS-4	0-1/2	0.87	ND	ND	ND	4.4	25	<0.10
SS-5	0-1/2	0.69	ND	ND	ND	5.4	25	<0.10
SS-6	0-1/2	0.12	ND	ND	ND	5.4	33	0.21
SS-7	0-1/2	0.70	ND	ND	ND	4.2	37	<0.10
SS-12 to 15 [Ⓞ]	0-1/2	0.72	0.12	0.19	ND	1.1	39	0.11
EB-1	1/2-1	0.60	ND	0.17	ND	-	-	-
EB-1	1-1 1/2	0.25	ND	ND	ND	-	-	-
EB-2	1/2-1	0.23	ND	ND	ND	-	-	-
EB-2	1-1 1/2	0.015	ND	ND	ND	-	-	-
EB-3	1/2-1	0.062	ND	ND	ND	-	-	-
EB-3	1-1 1/2	ND	ND	ND	ND	-	-	-
EB-4	1/2-1	0.71	0.12	ND	ND	-	-	-
EB-4	1/2-1	0.419	0.052	ND	ND	-	-	-
EB-5	1/2-1	2.29	ND	ND	ND	-	-	-
EB-5	1-1 1/2	0.403	0.068	ND	ND	-	-	-
EB-6	1/2-1	0.81	0.058	0.22	ND	-	-	-
EB-6	1-1 1/2	0.218	ND	ND	ND	-	-	-
EB-7	1/2-1	2.7	0.18	0.32	0.19	-	-	-
EB-7	1-1 1/2	0.89	0.16	ND	0.182	-	-	-
EB-8	1/2-1	2.4	0.16	ND	0.19	-	-	-
EB-8	1-1 1/2	0.10	0.070	ND	ND	-	-	-
EB-9	1/2-1	2.69	0.16	ND	0.080	-	-	-
EB-9	1-1 1/2	0.25	ND	ND	ND	-	-	-
EB-10	1/2-1	4.1	0.16	0.43	0.163	-	-	-
EB-10	1-1 1/2	2.5	ND	0.31	ND	-	-	-
EB-11	1/2-1	0.59	0.16	ND	ND	-	-	-
EB-11	1-1 1/2	ND	ND	ND	ND	-	-	-
EB-12	1/2-1	0.74	ND	0.22	ND	-	-	-
EB-12	1-1 1/2	ND	ND	ND	ND	-	-	-
EB-13	1/2-1	3.2	0.15	0.41	0.26	-	-	-
EB-13	1-1 1/2	0.33	ND	ND	ND	-	-	-
EB-14	1/2-1	2.7	ND	0.36	0.23	-	-	-
EB-14	1-1 1/2	0.42	ND	0.090	0.055	-	-	-
EB-15	1/2-1	2.46	ND	0.28	ND	-	-	-
EB-15	1-1 1/2	0.061	ND	ND	ND	-	-	-
EB-16	1/2-1	0.022	ND	ND	ND	-	-	-
EB-16	1-1 1/2	ND	ND	ND	ND	-	-	-
EB-17	1/2-1	ND	ND	ND	ND	-	-	-
EB-17	1-1 1/2	1.54	0.11	0.24	ND	-	-	-
EB-18	1/2-1	0.82	ND	ND	ND	-	-	-
EB-18	1-1 1/2	0.040	ND	ND	ND	-	-	-
EB-19	1/2-1	ND	ND	ND	ND	-	-	-
EB-19	1-1 1/2	ND	ND	ND	ND	-	-	-
EB-20	1/2-1	1.52	0.26	0.20	ND	-	-	-
EB-20	1-1 1/2	1.02	0.10	0.17	ND	-	-	-
EB-21	1/2-1	ND	ND	ND	ND	-	-	-
EB-21	1-1 1/2	0.34	0.080	ND	ND	-	-	-
EB-22	1/2-1	ND	ND	ND	ND	-	-	-
EB-22	1-1 1/2	2.12	ND	ND	ND	-	-	-
EB-23	1/2-1	2.3	ND	ND	ND	-	-	-
EB-23	1-1 1/2	2.16	ND	ND	ND	-	-	-
PRGs**		1.3	0.028	20	0.34	22/0.38***	130	6.5

< Indicates that the compound was not detected at or above the stated laboratory reporting limit

Additional Compounds Detected

ND Indicates compounds not detected at or above laboratory reporting limits

① Endosulfan 2 - 0.089

- Not Analyzed

* Composite Sample

** Residential Preliminary Remediation Goal - EPA Region 9, August 1996

*** Non-cancer endpoint/cancer endpoint

**** Dependent upon individual compounds

NP Not Established

We have defined the cleanup goals for total DDT, dieldrin, endrin, and chlordane as either the TTLC or PRG for each compound, whichever is lowest. The cleanup goals are summarized below in Table 2.

Table 2. Cleanup Goals

Pesticide	Cleanup Goal	Source
Total DDT	1.0	TILC
Dieldrin	0.028	PRG
Endrin	0.2	TILC
Chlordane	0.34	PRG

SCOPE OF WORK

Mixing Plan and Method

To confirm the effectiveness of mixing, a preliminary mixing evaluation will initially be performed. Earth moving equipment, such as scrapers or bulldozers, or agricultural tilling equipment will initially be used to mix the upper approximately 3 feet on approximately 1,200 square feet of the site. The pilot mixing will be performed at the location of samples SS-2 and EB-10, where 4.58 ppm and 4.1 ppm total DDT, respectively, were detected in the upper approximately ½-foot (Figure 2). Following the preliminary mixing, soil samples will be collected from depths of approximately ½ to 1-foot and 2 to 2 ½-feet at five randomly selected locations within the tilled area. The samples will be analyzed by a state certified analytical laboratory for organochlorine pesticides (EPA Test Method 8080) on a 24-hour laboratory response. Sampling protocol is presented in Attachment A.

Mixing Pilot Test

Following receipt of the analytical results, we will evaluate whether the mixing depth and/or number of passes needs to be adjusted.

Following the mixing pilot study and approval of the development project, the soil on the remainder of the site will be mixed. Earth moving equipment, such as scrapers or bulldozers, or agricultural tilling equipment will be used to mix the upper approximately 3 to 4 of soil, with the exception of the area mixed during the pilot evaluation. The mixing depth and type of equipment used will be selected based on the results of the pilot mixing evaluation.

Mixing

Verification Sampling

Following the mixing of the on-site soil, soil samples will be collected from a depth of approximately ½ to 1 foot using hand sampling equipment. There are 23 fourplex lots currently proposed. Samples will be randomly collected per EPA document SW846, with one randomly located sample in each fourplex lot. If the residential development is changed to a single family configuration, one sample will be randomly located for every three to four single family lots. Sampling protocol is presented in Attachment A. The samples will be analyzed by a state certified analytical laboratory for organochlorine pesticides (EPA Test Method 8080).

Human Health Risk Assessment

Depending on the final analytical results of the verification samples, a health risk assessment may be performed to evaluate potential risk to human health.

Report Preparation

We will prepare a technical report presenting and summarizing the site activities, verification sampling results, health risk assessment results (if needed), as well as our recommendations and conclusions.


Schedule

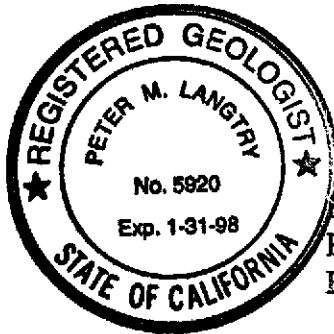
The pilot mixing evaluation will be performed by October 15, 1997. Centex Homes currently anticipates mixing the remainder of the site during summer 1998.

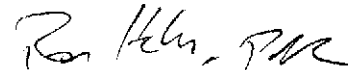
If you have any questions regarding this work plan, please call and we will be glad to discuss them with you.

Very truly yours,

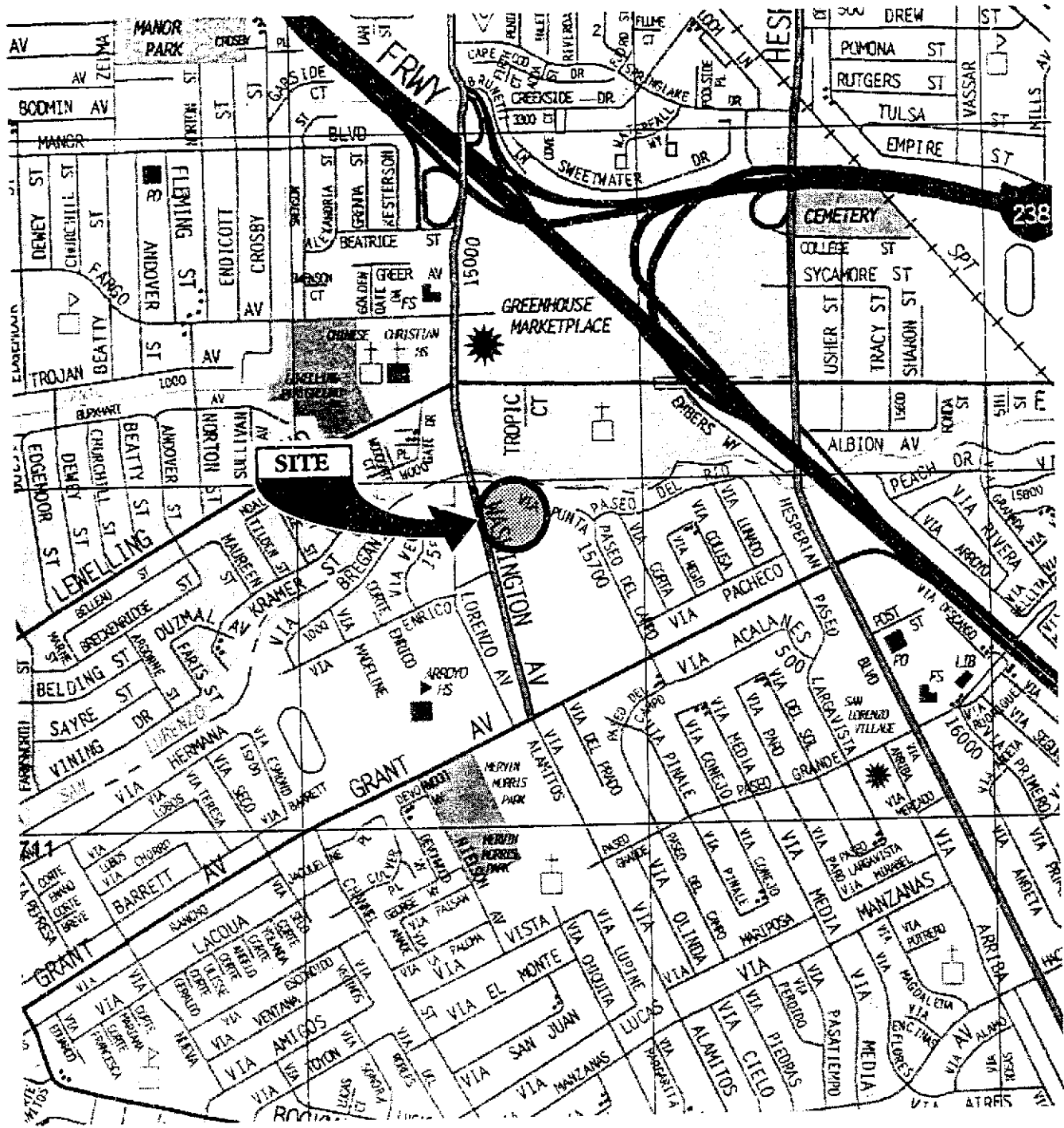
LOWNEY ASSOCIATES


Peter M. Langtry, R.G., C.E.G.
Associate
Environmental Geologist



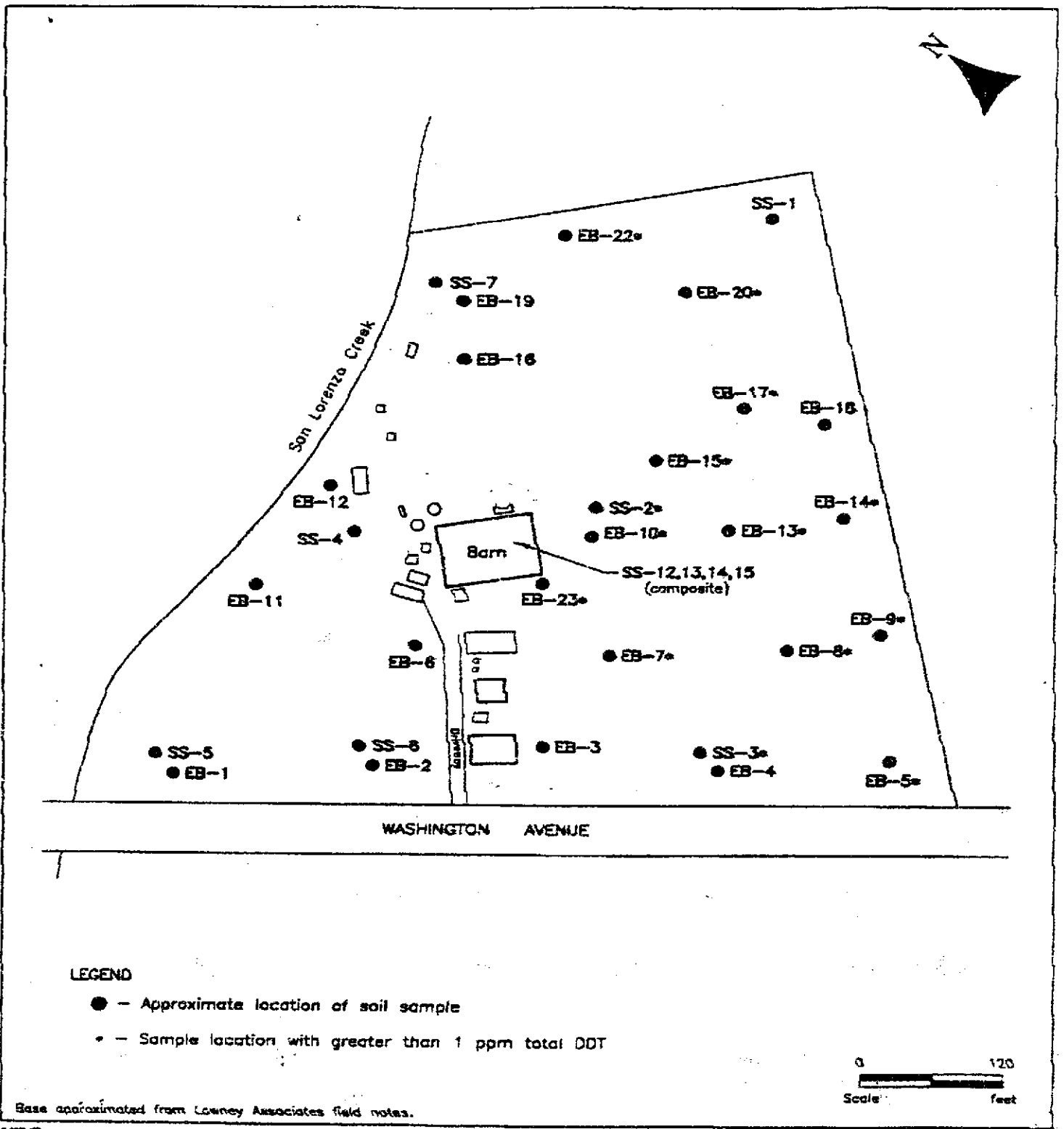

Ron L. Helm, R.G., C.E.G.
Principal
Environmental Geologist

Copies: Addressee (1)
Centex Homes (2)
Attn: Mr. Dennis Gerber
Attachments: Figure 1 - Vicinity Map
Figure 2 - Site Plan



"Reproduced with permission granted by THCMAS BROS. MAP."

VICINITY MAP
 WASHINGTON AVENUE PHASE I
 San Lorenzo, California



SITE PLAN

WASHINGTON AVENUE PHASE I
San Lorenzo, California

LOWNEY ASSOCIATES
 Environmental/Geotechnical/Engineering Services

FIGURE 2
 1124-2

Attachment A
Sampling Equipment Decontamination

All sampling equipment will be thoroughly cleaned with an aqueous solution of trisodium phosphate and distilled water, or steam cleaned. The cleaning procedure will be repeated between each sampling location.

Soil Sample Collection: Soil samples will be collected in brass or stainless steel liners at approximately ½- to 1-foot. The ends of the liners will be covered with aluminum foil and plastic end caps and securely taped. The samples then will be placed on ice for transportation to the state certified laboratory. Chain of custody documentation will be maintained for all samples.



Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Attn: Peter Langtry
Lowney Associates
129 Filbert Street
Oakland, CA 94607

Date:	9/3/97
Date Received:	8/27/97
Date Analyzed:	8/29-9/3/97
Project Name:	15550 Washington Ave
Job No.:	PT767
Sampled By:	Client

Certified Analytical Report

Soil Sample Analysis:

Test	SS-1 0-1/2'	SS-2 0-1/2'	SS-3 0-1/2'	SS-4 0-1/2'	Units	PQL	EPA Method #
Sample Matrix	Soil	Soil	Soil	Soil			
Sample Date	8/26/97	8/26/97	8/26/97	8/26/97			
Sample Time							
Lab #	D13492	D13493	D13494	D13495			
Arsenic	6.6	2.6	3.0	4.4	mg/kg	0.50 mg/kg	6010
Lead	ND	19	21	25	mg/kg	0.50 mg/kg	6010
Mercury	ND	ND	ND	ND	mg/kg	0.10 mg/kg	7471
Pesticides	ND	4.58	5.3	0.87	mg/kg	See Report	8080

1. DLR=DF x PQL
2. EPA 8080 analysis performed by WEST Laboratory (CAELAP #1346); see WEST report for individual compounds, detection limits, and analysis dates
3. Remaining analysis performed by Entech Analytical Labs, Inc. (CAELAP #2224)


Michael N. Golden, Lab Director

DF=Dilution Factor
DLR=Detection Reporting Limit

PQL=Practical Quantitation Limit
ND=None Detected at or above DLR

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Attn: Peter Langtry
Lowney Associates
129 Filbert Street
Oakland, CA 94607

Date:	9/3/97
Date Received:	8/27/97
Date Analyzed:	8/29-9/3/97
Project Name:	15550 Washington Ave
Job No.:	P7767
Sampled By:	Client

Certified Analytical Report

Soil Sample Analysis:

Test	SS-5 0-1/2'	SS-6 0-1/2'	SS-7 0-1/2'	Units	PQL	EPA Method #
Sample Matrix	Soil	Soil	Soil			
Sample Date	8/26/97	8/26/97	8/26/97			
Sample Time						
Lab #	D13496	D13497	D13498			
Arsenic	5.4	5.4	4.2	mg/kg	0.50 mg/kg	6010
Lead	25	33	37	mg/kg	0.50 mg/kg	6010
Mercury	ND	0.21	ND	mg/kg	0.10 mg/kg	7471
Pesticides	0.69	0.12	0.70	mg/kg	See Report	8080

1. DLR=DF x PQL
2. EPA 8080 analysis performed by WEST Laboratory (CAELAP #1346); see WEST report for individual compounds, detection limits, and analysis dates
3. Remaining analysis performed by Entech Analytical Labs, Inc. (CAELAP #2224)



Michael N. Golden, Lab Director

DF=Dilution Factor
DLR=Detection Reporting Limit

PQL=Practical Quantitation Limit
ND=None Detected at or above DLR

Environmental Analysis Since 1983

SEP-03-97 WED 05:53 PM WEST Lab

FAX NO. 916-751-4610

P.02/10

WEST LABORATORY

September 3, 1997

Sample Log 17236

17236-01

Sample: D13492 (SS-1 0-1/2)

From : Lowney (P7767)

Sampled : 08/26/97

Matrix : Soil

Dilution : 1:5

Extracted : 09/02/97

Analyzed : 09/03/97

QC Batch : PS970901

**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) <small>ug/kg</small>	Measured Value <small>ug/kg</small>	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	<0.050	
4,4'-DDT	(0.050)	<0.050	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	<0.050	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	102 D	(60-150)
Decachlorobiphenyl	122 D	(60-150)

D Value derived from diluted extract (5:1)

D. P. Kelly
 Superior Technology
 Senior Chemist



September 3, 1997
 Sample Log 17236
 17236-02

Sample: D13493 (SS-2 0-1/2)

From : Lowney (P7767)
 Sampled : 08/26/97
 Matrix : Soil
 Dilution : 1:25

Extracted : 09/02/97
 Analyzed : 09/03/97
 QC Batch : PS970901

**EPA8080 - Organochlorine Pesticides
 EPA3550 Extraction**

Parameter	(MRL) <small>mg/kg</small>	Measured Value <small>mg/kg</small>	Flag
Aldrin	(0.13)	< 0.13	
alpha-BHC	(0.13)	< 0.13	
beta-BHC	(0.13)	< 0.13	
delta-BHC	(0.13)	< 0.13	
gamma-BHC	(0.13)	< 0.13	
Chlordane Technical	(2.5)	< 2.5	
gamma-Chlordane	(0.13)	< 0.13	
alpha-Chlordane	(0.13)	< 0.13	
4,4'-DDD	(0.25)	0.68	
4,4'-DDE	(0.25)	1.7	
4,4'-DDT	(0.25)	2.2	
Dieldrin	(0.25)	< 0.25	
Endosulfan 1	(0.13)	< 0.13	
Endosulfan 2	(0.25)	< 0.25	
Endosulfan Sulfate	(0.25)	< 0.25	
Endrin	(0.30)	< 0.30	
Endrin Aldehyde	(0.25)	< 0.25	
Heptachlor	(0.13)	< 0.13	
Heptachlor Epoxide	(0.13)	< 0.13	
Toxaphene	(5.0)	< 5.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (25:1)

D. Kelly
 SENIOR ANALYST
 Senior Chemist

SEP-03-97 WED 05:54 PM WEST Ltd

FAX NO. 916-757-4610

P.05/10

WEST LABORATORY

September 3, 1997

Sample Log 17236

17236-03

Sample: D13494 (SS-3 0-1/2)

From : Lowney (P7767)

Sampled : 08/26/97

Matrix : Soil

Dilution : 1:25

Extracted : 09/02/97

Analyzed : 09/03/97

QC Batch : PS970901

**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
Aldrin	(0.13)	< 0.13	
alpha-BHC	(0.13)	< 0.13	
beta-BHC	(0.13)	< 0.13	
delta-BHC	(0.13)	< 0.13	
gamma-BHC	(0.13)	< 0.13	
Chlordane Technical	(2.5)	< 2.5	
gamma-Chlordane	(0.13)	< 0.13	
alpha-Chlordane	(0.13)	< 0.13	
4,4'-DDD	(0.25)	0.80	
4,4'-DDE	(0.25)	1.9	
4,4'-DDT	(0.25)	2.6	
Dieldrin	(0.25)	< 0.25	
Endosulfan 1	(0.13)	< 0.13	
Endosulfan 2	(0.25)	< 0.25	
Endosulfan Sulfate	(0.25)	< 0.25	
Endrin	(0.30)	< 0.30	
Endrin Aldehyde	(0.25)	< 0.25	
Heptachlor	(0.13)	< 0.13	
Heptachlor Epoxide	(0.13)	< 0.13	
Toxaphene	(5.0)	< 5.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (25:1)

SPD
 STEPHEN PODOLSKY
 Senior Chemist

SEP-03-97 WED 05:54 PM WEST Ltd

FAX NO. 916-757-4610

P. 06/10

WEST LABORATORY

September 3, 1997

Sample Log 17236

17236-04

Sample: D13495 (SS-4 0-1/2)

From : Lowney (P7767)

Sampled : 08/26/97

Matrix : Soil

Dilution : 1:5

Extracted : 09/02/97

Analyzed : 09/03/97

QC Batch : PS970901

**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DND	(0.050)	0.12	
4,4'-DDE	(0.050)	0.34	
4,4'-DDT	(0.050)	0.41	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.15)	< 0.15	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	102 D	(60-150)
Decachlorobiphenyl	108 D	(60-150)

D Value derived from diluted extract (5:1)

D. Piddley
 SUPPORT LABORATORY
 Senior Chemist

SEP-03-97 WED 05:54 PM WEST LNB

FAX NO. 916-751 4610

P.07/10

WEST LABORATORYSeptember 3, 1997
Sample Log 17236
17236-05

Sample: D13496 (SS-5 0-1/2)

From : Lowney (P7767)
Sampled : 08/26/97
Matrix : Soil
Dilution : 1:10Extracted : 09/02/97
Analyzed : 09/03/97
QC Batch : PS970901**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) ug/kg	Measured Value ug/kg	Flag
Aldrin	(0.050)	<0.050	
alpha-BHC	(0.050)	<0.050	
beta-BHC	(0.050)	<0.050	
delta-BHC	(0.050)	<0.050	
gamma-BHC	(0.050)	<0.050	
Chlordane Technical	(1.0)	< 1.0	
gamma-Chlordane	(0.050)	<0.050	
alpha-Chlordane	(0.050)	<0.050	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.10)	0.29	
4,4'-DDT	(0.10)	0.40	
Dieldrin	(0.10)	< 0.10	
Endosulfan 1	(0.050)	<0.050	
Endosulfan 2	(0.10)	< 0.10	
Endosulfan Sulfate	(0.10)	< 0.10	
Endrin	(0.15)	< 0.15	
Endrin Aldehyde	(0.10)	< 0.10	
Heptachlor	(0.050)	<0.050	
Heptachlor Epoxide	(0.050)	<0.050	
Toxaphene	(2.0)	< 2.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	98 D	(60-150)
Decachlorobiphenyl	131 D	(60-150)

D Value derived from diluted extract (10:1)

D. P. Kelly

 Senior Chemist

LABORATORY

September 3, 1997
Sample Log 17236
17236-06

Sample: D13497 (SS-6 0-1/2)

From : Lowney (P7767)
Sampled : 08/26/97
Matrix : Soil
Dilution : 1:10

Extracted : 09/02/97
Analyzed : 09/03/97
QC Batch : PS970901

EPA8080 - Organochlorine Pesticides EPA3550 Extraction

Parameter	(MRL) $\mu\text{g}/\text{kg}$	Measured Value $\mu\text{g}/\text{kg}$	Flag
Aldrin	(0.050)	<0.050	
alpha-BHC	(0.050)	<0.050	
beta-BHC	(0.050)	<0.050	
delta-BHC	(0.050)	<0.050	
gamma-BHC	(0.050)	<0.050	
Chlordane Technical	(1.0)	< 1.0	
gamma-Chlordane	(0.050)	<0.050	
alpha-Chlordane	(0.050)	<0.050	
4,4'-DDD	(0.10)	< 0.10	
4,4'-DDE	(0.10)	< 0.10	
4,4'-DDT	(0.10)	0.12	
Dieldrin	(0.10)	< 0.10	
Endosulfan 1	(0.050)	<0.050	
Endosulfan 2	(0.10)	< 0.10	
Endosulfan Sulfate	(0.10)	< 0.10	
Endrin	(0.10)	< 0.10	
Endrin Aldehyde	(0.10)	< 0.10	
Heptachlor	(0.050)	<0.050	
Heptachlor Epoxide	(0.050)	<0.050	
Toxaphene	(2.0)	< 2.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	102 D	(60-150)
Decachlorobiphenyl	120 D	(60-150)

D Value derived from diluted extract (10:1)

S. P. Kelly
Senior Analyst

SEP-03-97 WED 05:55 PM WEST Ltd

FAX NO. 916-757-4610

P. 09/10

LABORATORY

September 3, 1997

Sample Log 17236

17236-01

Sample: D13498 (SS-7 0-1/2)

From : Lowney (P7767)

Sampled : 08/26/97

Matrix : Soil

Dilution : 1:5

Extracted : 09/02/97

Analyzed : 09/03/97

QC Batch : PS970901

**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) <small>ug/kg</small>	Measured Value <small>ug/kg</small>	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.050)	0.30	
4,4'-DDT	(0.050)	0.40	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.15)	< 0.15	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 808/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	106 D	(60-150)
Decachlorobiphenyl	117 D	(60-150)

D Value derived from diluted extract (5:1)

O. Paddy
 O. Paddy
 Senior Chemist

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

Send Results To: Mountain View Office
 405 Clyde Avenue
 Mountain View, CA 94043
 415-967-2365
 415-967-2785 (fax)

Fax Copy To: 415-967-2785 (fax)

Oakland Office
 129 Filbert Street
 Oakland, CA 94607
 510-267-1970
 510-267-1972 (fax)

Project Name: 15550 Washington Ave						Turnaround Requirements		ANALYSES REQUESTED														
Job Number: PT167						<input type="checkbox"/> 10 working days		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Organics (E080)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Asbestos</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Lead</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Mercury</div> </div>														
Report To: Peter Langtry						<input checked="" type="checkbox"/> 5 working days																
Sampler (print): Brock Foster						<input type="checkbox"/> 3 working days																
Sampler (signature):						<input type="checkbox"/> 48 hours																
QC Requirements:						<input type="checkbox"/> 24 hours																
<input checked="" type="checkbox"/> Level A (standard) <input type="checkbox"/> Level B <input type="checkbox"/> Level C <input type="checkbox"/> Level D						<input type="checkbox"/> 2-3 hours (RUSH)																
Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.																Remarks	
SS-1 0-1/2'	8/27/97		Soil	1	D13492	✓	✓	✓	✓													
SS-2 0-1/2'					D13493	✓	✓	✓	✓													
SS-3 0-1/2'					D13494	✓	✓	✓	✓													
SS-4 0-1/2'					D13495	✓	✓	✓	✓													
SS-5 0-1/2'					D13496	✓	✓	✓	✓													
SS-6 0-1/2'					D13497	✓	✓	✓	✓													
SS-7 0-1/2'					D13498	✓	✓	✓	✓													
Hold																						
SS-8 0-1/2'					D13499																	
SS-9 0-1/2'					D13500																	
Relinquished By:						Date: 8/27/97 Time: 12:00		Received By: Paul						Date: 8/27 Time: 12:05				PM Initials				
Relinquished By: Paul						Date: 8/27 Time: 12:55		Received By: Jennifer Ellingwood						Date: 8/27/97 Time: 12:55								
Relinquished By:						Date: Time:		Lab of Record:						Date: Time:				Temperature				
Relinquished By:						Date: Time:		Received by Lab:						Date: Time:								

P. 11
 FROM ENTECH ANALYTICAL 408 7351564
 9-03-1997 5:08PM

P. 011
 TX/RX NO. 9055
 09/03/97 18:05

Sample: D14288 (EB-24;6.5'-7.0')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/11/97
Analyzed : 09/15/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides and PCBs
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	<0.010	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	
PCB 1016	(0.10)	< 0.10	
PCB 1221	(0.20)	< 0.20	
PCB 1232	(0.10)	< 0.10	
PCB 1242	(0.10)	< 0.10	
PCB 1248	(0.10)	< 0.10	
PCB 1254	(0.10)	< 0.10	
PCB 1260	(0.10)	< 0.10	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	86	(60-150)
Decachlorobiphenyl	98	(60-150)



 Senior Chemist

Sample: D14289 (EB-25; 6.5'-7.0')

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:1


Extracted : 09/11/97
 Analyzed : 09/15/97
 QC Batch : PS970904

EPA8080 - Organochlorine Pesticides and PCBs
EPA3550 Extraction

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	<0.010	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	
PCB 1016	(0.10)	< 0.10	
PCB 1221	(0.20)	< 0.20	
PCB 1232	(0.10)	< 0.10	
PCB 1242	(0.10)	< 0.10	
PCB 1248	(0.10)	< 0.10	
PCB 1254	(0.10)	< 0.10	
PCB 1260	(0.10)	< 0.10	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	93	(60-150)
Decachlorobiphenyl	108	(60-150)


 Senior Chemist

Sample: D14291(SS-11;0'-0.5')

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:5

Extracted : 09/11/97
 Analyzed : 09/12/97
 QC Batch : PS970904

EPA8080 - Organochlorine Pesticides and PCBs
EPA3550 Extraction

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.14	
4,4'-DDT	(0.050)	0.39	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	0.044	
Endosulfan 2	(0.050)	0.68	
Endosulfan Sulfate	(0.050)	0.21	
Endrin	(0.050)	<0.050	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	
PCB 1016	(0.50)	< 0.50	
PCB 1221	(1.0)	< 1.0	
PCB 1232	(0.50)	< 0.50	
PCB 1242	(0.50)	< 0.50	
PCB 1248	(0.50)	< 0.50	
PCB 1254	(0.50)	< 0.50	
PCB 1260	(0.50)	< 0.50	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	93 D	(60-150)
Decachlorobiphenyl	125 D	(60-150)

D Value derived from diluted extract (5:1)

BP
 Senior Chemist

September 16, 1997

Sample Log 17300

17300-04

Sample: D14292 (SS-12,13,14,15;0'-0.5')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/11/97
Analyzed : 09/13/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides and PCBs
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	0.24	
4,4'-DDE	(0.050)	0.15	
4,4'-DDT	(0.050)	0.33	
Dieldrin	(0.050)	0.12	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	0.089	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	0.19	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	
PCB 1016	(0.50)	< 0.50	
PCB 1221	(1.0)	< 1.0	
PCB 1232	(0.50)	< 0.50	
PCB 1242	(0.50)	< 0.50	
PCB 1248	(0.50)	< 0.50	
PCB 1254	(0.50)	< 0.50	
PCB 1260	(0.50)	< 0.50	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	102 D	(60-150)
Decachlorobiphenyl	75 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist

Sample: D14293 (EB-1; .5'-1')

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:5

Extracted : 09/11/97
 Analyzed : 09/12/97
 QC Batch : PS970904


EPA8080 - Organochlorine Pesticides
EPA3550 Extraction

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.10)	< 0.10	
4,4'-DDE	(0.050)	0.43	
4,4'-DDT	(0.050)	0.17	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	0.17	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	110 D	(60-150)
Decachlorobiphenyl	122 D	(60-150)

D Value derived from diluted extract (5:1)


 Senior Chemist

September 16, 1997

Sample Log 17300

17300-06

Sample: D14294 (EB-1;1'-1.5')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/11/97
Analyzed : 09/13/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.15	
4,4'-DDT	(0.050)	0.10	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	<0.050	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	80 D	(60-150)
Decachlorobiphenyl	112 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-07

Sample: D14295 (EB-2; .5' -1')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/11/97
Analyzed : 09/13/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.10)	< 0.10	
4,4'-DDE	(0.050)	0.23	
4,4'-DDT	(0.10)	< 0.10	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.10)	< 0.10	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	99 D	(60-150)
Decachlorobiphenyl	125 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist


Sample: D14296 (EB-2;1'-1.5')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/11/97
Analyzed : 09/15/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	0.015	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	88	(60-150)
Decachlorobiphenyl	100	(60-150)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-09


Sample: D14297 (EB-3; .5'-1')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/11/97
Analyzed : 09/15/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	0.012	
4,4'-DDT	(0.010)	0.050	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	116	(60-150)
Decachlorobiphenyl	134	(60-150)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-10

Sample: D14298 (EB-3;1'-1.5')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/11/97
Analyzed : 09/15/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	<0.010	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	81	(60-150)
Decachlorobiphenyl	99	(60-150)


Senior Chemist

Sample: D14299 (EB-4;5'-1')

From : 1124-2

Sampled : 09/11/97

Matrix : Soil

Dilution : 1:5

Extracted : 09/11/97

Analyzed : 09/13/97

QC Batch : PS970904


EPA8080 - Organochlorine Pesticides**EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.10)	< 0.10	
4,4'-DDE	(0.050)	0.57	
4,4'-DDT	(0.050)	0.14	
Dieldrin	(0.050)	0.12	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.10)	< 0.10	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	108 D	(60-150)
Decachlorobiphenyl	136 D	(60-150)

D Value derived from diluted extract (5:1)


 Senior Chemist

September 16, 1997

Sample Log 17300

17300-12

Sample: D14300 (EB-4;1'-1.5')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/11/97
Analyzed : 09/13/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.36	
4,4'-DDT	(0.050)	0.059	
Dieldrin	(0.050)	0.052	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	<0.050	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	111 D	(60-150)
Decachlorobiphenyl	138 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-13

Sample: **D14301 (EB-5;5'-1')**

From : 1124-2

Sampled : 09/11/97

Matrix : Soil

Dilution : 1:15

Extracted : 09/11/97

Analyzed : 09/14/97

QC Batch : PS970904


EPA8080 - Organochlorine Pesticides**EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	<0.075	
alpha-Chlordane	(0.075)	<0.075	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.15)	0.99	
4,4'-DDT	(0.15)	1.3	
Dieldrin	(0.15)	< 0.15	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.20)	< 0.20	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)


Senior Chemist

Sample: D14302 (EB-5; 1' -1.5')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/11/97
Analyzed : 09/13/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.32	
4,4'-DDT	(0.050)	0.083	
Dieldrin	(0.050)	0.068	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.10)	< 0.10	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	84 D	(60-150)
Decachlorobiphenyl	120 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-16

Sample: D14304(EB-6;1'-1.5')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/11/97
Analyzed : 09/13/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.15	
4,4'-DDT	(0.050)	0.068	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.10)	< 0.10	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	90 D	(60-150)
Decachlorobiphenyl	131 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-17

Sample: D14305 (EB-7;5'-1')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:15Extracted : 09/11/97
Analyzed : 09/14/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	0.090	
alpha-Chlordane	(0.075)	0.10	
4,4'-DDD	(0.20)	< 0.20	
4,4'-DDE	(0.15)	1.1	
4,4'-DDT	(0.15)	1.6	
Dieldrin	(0.15)	0.18	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.15)	0.32	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-18

Sample: D14306 (EB-7;1'-1.5')

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:5

Extracted : 09/11/97
 Analyzed : 09/13/97
 QC Batch : PS970904


EPA8080 - Organochlorine Pesticides
EPA3550 Extraction

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	0.088	
alpha-Chlordane	(0.025)	0.094	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.47	
4,4'-DDT	(0.050)	0.42	
Dieldrin	(0.050)	0.16	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.10)	< 0.10	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	110 D	(60-150)
Decachlorobiphenyl	128 D	(60-150)

D Value derived from diluted extract (5:1)


 Senior Chemist

September 16, 1997

Sample Log 17300

17300-19

Sample: D14307 (EB-8;5'-1')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:15Extracted : 09/11/97
Analyzed : 09/15/97
QC Batch : PS970904**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	0.092	
alpha-Chlordane	(0.075)	0.098	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.15)	1.0	
4,4'-DDT	(0.15)	1.4	
Dieldrin	(0.15)	0.16	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.20)	< 0.20	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-20

Sample: D14308 (EB-8;1'-1.5')

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:5

Extracted : 09/11/97
 Analyzed : 09/13/97
 QC Batch : PS970904


EPA8080 - Organochlorine Pesticides
EPA3550 Extraction

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.10	
4,4'-DDT	(0.050)	<0.050	
Dieldrin	(0.050)	0.070	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	<0.050	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	106 d	(60-150)
Decachlorobiphenyl	131 d	(60-150)

D Value derived from diluted extract (5:1)


 Senior Chemist

September 16, 1997

Sample Log 17300

17300-21

Sample: D14309 (EB-9;5'-1')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:15Extracted : 09/12/97
Analyzed : 09/13/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	<0.075	
alpha-Chlordane	(0.075)	0.080	
4,4'-DDD	(0.20)	< 0.20	
4,4'-DDE	(0.15)	0.99	
4,4'-DDT	(0.15)	1.7	
Dieldrin	(0.15)	0.16	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.20)	< 0.20	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)


Senior Chemist

Sample: D14310 (EB-9;1'-1.5')

From : 1124-2

Sampled : 09/11/97

Matrix : Soil

Dilution : 1:5

Extracted : 09/12/97

Analyzed : 09/13/97

QC Batch : PS970905

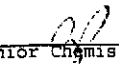
EPA8080 - Organochlorine Pesticides**EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.15	
4,4'-DDT	(0.050)	0.10	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	<0.050	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	115 D	(60-150)
Decachlorobiphenyl	136 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-23

Sample: D14311(EB-10;5'-1')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:15Extracted : 09/12/97
Analyzed : 09/14/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	0.076	
alpha-Chlordane	(0.075)	0.087	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.15)	1.7	
4,4'-DDT	(0.15)	2.4	
Dieldrin	(0.15)	0.16	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.15)	0.43	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-24

Sample: D14312 (EB-10;1'-1.5')

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:15

Extracted : 09/12/97
 Analyzed : 09/14/97
 QC Batch : PS970905


EPA8080 - Organochlorine Pesticides
EPA3550 Extraction

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	<0.075	
alpha-Chlordane	(0.075)	<0.075	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.15)	1.1	
4,4'-DDT	(0.15)	1.4	
Dieldrin	(0.15)	< 0.15	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.15)	0.31	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)


 Senior Chemist

Sample: D14313 (EB-11;5'-1')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/12/97
Analyzed : 09/13/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.40	
4,4'-DDT	(0.050)	0.19	
Dieldrin	(0.050)	0.16	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	<0.050	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	104 D	(60-150)
Decachlorobiphenyl	131 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-26


Sample: D14314 (EB-11;1'-1.5

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/12/97
Analyzed : 09/15/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	<0.010	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	87	(60-150)
Decachlorobiphenyl	100	(60-150)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-27

Sample: **D14315 (EB-12;5'-1')**

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:5

Extracted : 09/12/97
 Analyzed : 09/13/97
 QC Batch : PS970905

**EPA8080 - Organochlorine Pesticides
 EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.47	
4,4'-DDT	(0.050)	0.27	
Dieldrin	(0.10)	< 0.10	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	0.22	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	102 D	(60-150)
Decachlorobiphenyl	131 D	(60-150)

D Value derived from diluted extract (5:1)

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 Senior Chemist

September 16, 1997

Sample Log 17300

17300-28

Sample: D14316 (EB-12;1'-1.5')

From : 1124-2

Sampled : 09/11/97

Matrix : Soil

Dilution : 1:1

Extracted : 09/12/97

Analyzed : 09/15/97


QC Batch : PS970905

EPA8080 - Organochlorine Pesticides**EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	<0.010	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	90	(60-150)
Decachlorobiphenyl	101	(60-150)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-29

Sample: D14317 (EB-13;5'-1')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:15Extracted : 09/12/97
Analyzed : 09/14/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	0.12	
alpha-Chlordane	(0.075)	0.14	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.15)	1.3	
4,4'-DDT	(0.15)	1.9	
Dieldrin	(0.15)	0.15	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.15)	0.41	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-30

Sample: D14318 (EB-13; 1'-1.5')

From : 1124-2

Sampled : 09/11/97

Matrix : Soil

Dilution : 1:5

Extracted : 09/12/97

Analyzed : 09/13/97

QC Batch : PS970905

EPA8080 - Organochlorine Pesticides**EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.22	
4,4'-DDT	(0.050)	0.11	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.10)	< 0.10	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	138 D	(60-150)
Decachlorobiphenyl	134 D	(60-150)

D Value derived from diluted extract (5:1)

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Senior Chemist

September 16, 1997

Sample Log 17300

17300-31

Sample: D14319 (EB-14;5'-1')

From : 1124-2

Sampled : 09/11/97

Matrix : Soil

Dilution : 1:15

Extracted : 09/12/97

Analyzed : 09/14/97

QC Batch : PS970905


EPA8080 - Organochlorine Pesticides**EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	0.11	
alpha-Chlordane	(0.075)	0.12	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.15)	1.1	
4,4'-DDT	(0.15)	1.6	
Dieldrin	(0.15)	< 0.15	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.15)	0.36	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)


 Senior Chemist

September 16, 1997

Sample Log 17300

17300-32

Sample: D14320 (EB-14;1'-1.5')

From : 1124-2

Sampled : 09/11/97

Matrix : Soil

Dilution : 1:5

Extracted : 09/12/97

Analyzed : 09/13/97

QC Batch : PS970905

EPA8080 - Organochlorine Pesticides**EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	0.025	
alpha-Chlordane	(0.025)	0.030	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.25	
4,4'-DDT	(0.050)	0.17	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	0.090	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene 99 D (60-150)

Decachlorobiphenyl 123 D (60-150)

D Value derived from diluted extract (5:1)


 Senior Chemist

September 16, 1997

Sample Log 17300

17300-33

Sample: D14321(EB-15;5'-1')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:15Extracted : 09/12/97
Analyzed : 09/15/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	<0.075	
alpha-Chlordane	(0.075)	<0.075	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.15)	0.96	
4,4'-DDT	(0.15)	1.5	
Dieldrin	(0.15)	< 0.15	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.15)	0.28	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)

30
Senior Chemist

Sample: D14322 (EB-15;1'-1.5')

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:1


Extracted : 09/12/97
 Analyzed : 09/15/97
 QC Batch : PS970905

EPA8080 - Organochlorine Pesticides
EPA3550 Extraction

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	0.050	
4,4'-DDT	(0.010)	0.011	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.020)	<0.020	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	96	(60-150)
Decachlorobiphenyl	101	(60-150)

Senior Chemist 

September 16, 1997

Sample Log 17300

17300-35


Sample: D14323 (EB-16;5'-1')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/12/97
Analyzed : 09/15/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.020)	<0.020	
4,4'-DDE	(0.010)	0.022	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	85	(60-150)
Decachlorobiphenyl	90	(60-150)

Senior Chemist 

September 16, 1997

Sample Log 17300

17300-36

Sample: D14324 (EB-16;1'-1.5')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:10Extracted : 09/12/97
Analyzed : 09/15/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	<0.050	
4,4'-DDT	(0.050)	<0.050	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	<0.050	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	115 D	(60-150)
Decachlorobiphenyl	114 D	(60-150)

D Value derived from diluted extract (10:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-37


Sample: D14325 (EB-17;5'-1')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/12/97
Analyzed : 09/15/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	<0.010	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	104	(60-150)
Decachlorobiphenyl	107	(60-150)

Senior Chemist 

Sample: D14326 (EB-17;1'-1.5')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/12/97
Analyzed : 09/14/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.94	
4,4'-DDT	(0.050)	0.90	
Dieldrin	(0.050)	0.11	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	0.24	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(2.0)	< 2.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	99 D	(60-150)
Decachlorobiphenyl	125 D	(60-150)

D Value derived from diluted extract (5:1)

Sample: D14327(EB-18;5'-1')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/12/97
Analyzed : 09/14/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.050)	<0.050	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.54	
4,4'-DDT	(0.050)	0.28	
Dieldrin	(0.10)	< 0.10	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.15)	< 0.15	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	83 D	(60-150)
Decachlorobiphenyl	119 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist


Sample: D14328 (EB-18;1'-1.5')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/12/97
Analyzed : 09/15/97
QC Batch : PS970905**EPA8080 - Organochlorine Pesticides**
EPA3550 Extraction

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	0.040	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	85	(60-150)
Decachlorobiphenyl	99	(60-150)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-41

Sample: D14329 (EB-19; 5'-1')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/12/97
Analyzed : 09/14/97
QC Batch : PS970906**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	<0.050	
4,4'-DDT	(0.050)	<0.050	
Dieldrin	(0.050)	<0.050	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	<0.050	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	104 D	(60-150)
Decachlorobiphenyl	114 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-42


Sample: D14330 (EB-19;1'-1.5')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/12/97
Analyzed : 09/15/97
QC Batch : PS970906**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	<0.010	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	79	(60-150)
Decachlorobiphenyl	94	(60-150)


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September 16, 1997

Sample Log 17300

17300-43

Sample: D14331(EB-20;5'-1')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/12/97
Analyzed : 09/14/97
QC Batch : PS970906**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.94	
4,4'-DDT	(0.050)	0.58	
Dieldrin	(0.050)	0.26	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	0.20	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	96 D	(60-150)
Decachlorobiphenyl	125 D	(60-150)

D Value derived from diluted extract (5:1)


senior chemist

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Sample Log 17300

17300-44

Sample: D14332 (EB-20;1'-1.5')

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:5

Extracted : 09/12/97
 Analyzed : 09/14/97
 QC Batch : PS970906


EPA8080 - Organochlorine Pesticides
EPA3550 Extraction

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.40	
4,4'-DDT	(0.050)	0.62	
Dieldrin	(0.050)	0.10	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	0.17	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	88 D	(60-150)
Decachlorobiphenyl	132 D	(60-150)

D Value derived from diluted extract (5:1)


 Senior Chemist

September 16, 1997

Sample Log 17300

17300-45


Sample: D14333 (EB-21;5'-1')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/12/97
Analyzed : 09/15/97
QC Batch : PS970906**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	<0.010	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	90	(60-150)
Decachlorobiphenyl	87	(60-150)


Senior Chemist

Sample: D14334 (EB-21; 1'-1.5')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:5Extracted : 09/12/97
Analyzed : 09/14/97
QC Batch : PS970906**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.025)	<0.025	
alpha-BHC	(0.025)	<0.025	
beta-BHC	(0.025)	<0.025	
delta-BHC	(0.025)	<0.025	
gamma-BHC	(0.025)	<0.025	
Chlordane Technical	(0.50)	< 0.50	
gamma-Chlordane	(0.025)	<0.025	
alpha-Chlordane	(0.025)	<0.025	
4,4'-DDD	(0.050)	<0.050	
4,4'-DDE	(0.050)	0.14	
4,4'-DDT	(0.050)	0.20	
Dieldrin	(0.050)	0.080	
Endosulfan 1	(0.025)	<0.025	
Endosulfan 2	(0.050)	<0.050	
Endosulfan Sulfate	(0.050)	<0.050	
Endrin	(0.050)	<0.050	
Endrin Aldehyde	(0.050)	<0.050	
Heptachlor	(0.025)	<0.025	
Heptachlor Epoxide	(0.025)	<0.025	
Toxaphene	(1.0)	< 1.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	99 D	(60-150)
Decachlorobiphenyl	122 D	(60-150)

D Value derived from diluted extract (5:1)


Senior Chemist

September 16, 1997

Sample Log 17300

17300-47


Sample: D14335(EB-22;5'-1')

From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:1Extracted : 09/12/97
Analyzed : 09/15/97
QC Batch : PS970906**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(.0050)	<.0050	
alpha-BHC	(.0050)	<.0050	
beta-BHC	(.0050)	<.0050	
delta-BHC	(.0050)	<.0050	
gamma-BHC	(.0050)	<.0050	
Chlordane Technical	(0.10)	< 0.10	
gamma-Chlordane	(.0050)	<.0050	
alpha-Chlordane	(.0050)	<.0050	
4,4'-DDD	(0.010)	<0.010	
4,4'-DDE	(0.010)	<0.010	
4,4'-DDT	(0.010)	<0.010	
Dieldrin	(0.010)	<0.010	
Endosulfan 1	(.0050)	<.0050	
Endosulfan 2	(0.010)	<0.010	
Endosulfan Sulfate	(0.010)	<0.010	
Endrin	(0.010)	<0.010	
Endrin Aldehyde	(0.010)	<0.010	
Heptachlor	(.0050)	<.0050	
Heptachlor Epoxide	(.0050)	<.0050	
Toxaphene	(0.20)	< 0.20	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	78	(60-150)
Decachlorobiphenyl	90	(60-150)


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September 16, 1997

Sample Log 17300

17300-48

Sample: D14336(EB-22;1'-1.5')

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:15

Extracted : 09/12/97
 Analyzed : 09/15/97
 QC Batch : PS970906

**EPA8080 - Organochlorine Pesticides
 EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	<0.075	
alpha-Chlordane	(0.075)	<0.075	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.15)	0.72	
4,4'-DDT	(0.15)	1.4	
Dieldrin	(0.15)	< 0.15	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.20)	< 0.20	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene *** (60-150)
 Decachlorobiphenyl *** (60-150)

***Surrogate diluted out (15:1)

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 Senior Chemist

September 16, 1997

Sample Log 17300

17300-49

Sample: D14337 (EB-23;5'-1')


From : 1124-2
Sampled : 09/11/97
Matrix : Soil
Dilution : 1:15Extracted : 09/12/97
Analyzed : 09/15/97
QC Batch : PS970906**EPA8080 - Organochlorine Pesticides
EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	<0.075	
alpha-Chlordane	(0.075)	<0.075	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.15)	1.0	
4,4'-DDT	(0.15)	1.3	
Dieldrin	(0.15)	< 0.15	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.20)	< 0.20	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)


Sensor Chemist

September 16, 1997

Sample Log 17300

17300-50

Sample: D14338 (EB-23;1'-1.5')

From : 1124-2
 Sampled : 09/11/97
 Matrix : Soil
 Dilution : 1:15

Extracted : 09/12/97
 Analyzed : 09/15/97
 QC Batch : PS970906


**EPA8080 - Organochlorine Pesticides
 EPA3550 Extraction**

Parameter	(MRL) mg/kg	Measured Value mg/kg	Flag
Aldrin	(0.075)	<0.075	
alpha-BHC	(0.075)	<0.075	
beta-BHC	(0.075)	<0.075	
delta-BHC	(0.075)	<0.075	
gamma-BHC	(0.075)	<0.075	
Chlordane Technical	(1.5)	< 1.5	
gamma-Chlordane	(0.075)	<0.075	
alpha-Chlordane	(0.075)	<0.075	
4,4'-DDD	(0.15)	< 0.15	
4,4'-DDE	(0.15)	0.86	
4,4'-DDT	(0.15)	1.3	
Dieldrin	(0.15)	< 0.15	
Endosulfan 1	(0.075)	<0.075	
Endosulfan 2	(0.15)	< 0.15	
Endosulfan Sulfate	(0.15)	< 0.15	
Endrin	(0.20)	< 0.20	
Endrin Aldehyde	(0.15)	< 0.15	
Heptachlor	(0.075)	<0.075	
Heptachlor Epoxide	(0.075)	<0.075	
Toxaphene	(3.0)	< 3.0	

Method 608/8080 Surrogate Recoveries (%)

Tetrachloro-m-xylene	***	(60-150)
Decachlorobiphenyl	***	(60-150)

***Surrogate diluted out (15:1)


 Senior Chemist

September 19, 1997

QC Report
Pesticides/PCB by EPA 8080/3550

QC Batch PS970904


Matrix: Soil

Spike and Spike Duplicate Results

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
gamma-BHC	93	86	8
Heptachlor	104	100	4
Aldrin	108	106	2
Dieldrin	NC	NC	NC
Endrin	NC	NC	NC
4,4'-DDT	NC	NC	NC
NC Not calculated. Matrix interference			

Laboratory Control Spike

Parameter	Laboratory Control Spike-(%Rec)
gamma-BHC	85
Heptachlor	89
Aldrin	94
Dieldrin	95
Endrin	94
4,4'-DDT	97



Stewart Podolsky
Senior Chemist

September 19, 1997


QC Report
Pesticides/PCB by EPA 8080

QC Batch PS970904

Matrix: Soil

Method Blank

Parameter	MRL(mg/Kg)	Measured Value(mg/Kg)
Aldrin	(.0050)	<.0050
alpha-BHC	(.0050)	<.0050
beta-BHC	(.0050)	<.0050
delta-BHC	(.0050)	<.0050
gamma-BHC	(.0050)	<.0050
Chlordane Technical	(0.10)	<0.10
gamma-Chlordane	(.0050)	<.0050
alpha-Chlordane	(.0050)	<.0050
4,4'-DDD	(0.010)	<0.010
4,4'-DDE	(0.010)	<0.010
4,4'-DDT	(0.010)	<0.010
Dieldrin	(0.010)	<0.010
Endosulfan 1	(.0050)	<.0050
Endosulfan 2	(0.010)	<0.010
Endosulfan Sulfate	(0.010)	<0.010
Endrin	(0.010)	<0.010
Endrin Aldehyde	(0.010)	<0.010
Heptachlor	(.0050)	<.0050
Heptachlor Epoxide	(.0050)	<.0050
Toxaphene	(0.20)	<0.20
PCB1016	(0.10)	<0.10
PCB1221	(0.20)	<0.20
PCB1232	(0.10)	<0.10
PCB1242	(0.10)	<0.10
PCB1248	(0.10)	<0.10
PCB1254	(0.10)	<0.10
PCB1260	(0.10)	<0.10



Stewart Podolsky
Senior Chemist

September 19, 1997

QC Report
Pesticides/PCB by EPA 8080/3550

QC Batch PS970905


Matrix: Soil

Spike and Spike Duplicate Results

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
gamma-BHC	79	86	8
Heptachlor	88	95	8
Aldrin	85	91	7
Dieldrin	NC	NC	NC
Endrin	NC	NC	NC
4,4'-DDT	NC	NC	NC
NC Not calculated. Matrix interference			

Laboratory Control Spike

Parameter	Laboratory Control Spike-(%Rec)
gamma-BHC	82
Heptachlor	70
Aldrin	85
Dieldrin	71
Endrin	86
4,4'-DDT	92



Stewart Podolsky
Senior Chemist

September 19, 1997

QC Report
Pesticides/PCB by EPA 8080

QC Batch PS970905

Matrix: Soil

Method Blank

Parameter	MRL(mg/Kg)	Measured Value(mg/Kg)
Aldrin	(.0050)	<.0050
alpha-BHC	(.0050)	<.0050
beta-BHC	(.0050)	<.0050
delta-BHC	(.0050)	<.0050
gamma-BHC	(.0050)	<.0050
Chlordane Technical	(0.10)	<0.10
gamma-Chlordane	(.0050)	<.0050
alpha-Chlordane	(.0050)	<.0050
4,4'-DDD	(0.010)	<0.010
4,4'-DDE	(0.010)	<0.010
4,4'-DDT	(0.010)	<0.010
Dieldrin	(0.010)	<0.010
Endosulfan 1	(.0050)	<.0050
Endosulfan 2	(0.010)	<0.010
Endosulfan Sulfate	(0.010)	<0.010
Endrin	(0.010)	<0.010
Endrin Aldehyde	(0.010)	<0.010
Heptachlor	(.0050)	<.0050
Heptachlor Epoxide	(.0050)	<.0050
Toxaphene	(0.20)	<0.20
PCB1016	(0.10)	<0.10
PCB1221	(0.20)	<0.20
PCB1232	(0.10)	<0.10
PCB1242	(0.10)	<0.10
PCB1248	(0.10)	<0.10
PCB1254	(0.10)	<0.10
PCB1260	(0.10)	<0.10

30

Stewart Podolsky
Senior Chemist

September 19, 1997

QC Report
Pesticides/PCB by EPA 8080/3550

QC Batch PS970906


Matrix: Soil

Spike and Spike Duplicate Results

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
gamma-BHC	77	73	5
Heptachlor	99	92	7
Aldrin	90	84	7
Dieldrin	106	97	9
Endrin	118	106	11
4,4'-DDT	104	96	8

Laboratory Control Spike

Parameter	Laboratory Control Spike-(%Rec)
gamma-BHC	88
Heptachlor	74
Aldrin	90
Dieldrin	75
Endrin	92
4,4'-DDT	98



Stewart Podolsky
Senior Chemist

September 19, 1997


QC Report
Pesticides/PCB by EPA 8080

QC Batch PS970906

Matrix: Soil

Method Blank

Parameter	MRL(mg/Kg)	Measured Value(mg/Kg)
Aldrin	(.0050)	<.0050
alpha-BHC	(.0050)	<.0050
beta-BHC	(.0050)	<.0050
delta-BHC	(.0050)	<.0050
gamma-BHC	(.0050)	<.0050
Chlordane Technical	(0.10)	<0.10
gamma-Chlordane	(.0050)	<.0050
alpha-Chlordane	(.0050)	<.0050
4,4'-DDD	(0.010)	<0.010
4,4'-DDE	(0.010)	<0.010
4,4'-DDT	(0.010)	<0.010
Dieldrin	(0.010)	<0.010
Endosulfan 1	(.0050)	<.0050
Endosulfan 2	(0.010)	<0.010
Endosulfan Sulfate	(0.010)	<0.010
Endrin	(0.010)	<0.010
Endrin Aldehyde	(0.010)	<0.010
Heptachlor	(.0050)	<.0050
Heptachlor Epoxide	(.0050)	<.0050
Toxaphene	(0.20)	<0.20
PCB1016	(0.10)	<0.10
PCB1221	(0.20)	<0.20
PCB1232	(0.10)	<0.10
PCB1242	(0.10)	<0.10
PCB1248	(0.10)	<0.10
PCB1254	(0.10)	<0.10
PCB1260	(0.10)	<0.10


Stewart Podolsky
Senior Chemist

Entech Analytical Labs, Inc.


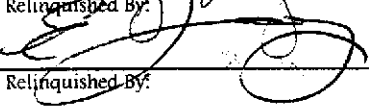
CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Subcontract Chain of Custody

17300

Subcontract Lab:		Date Sent:	Project Name:		Due Date:	
WEST		9/11/97	1124-2		9/16/97 RUSH	
Sample ID and Source	Matrix	Required Analysis	Date Taken	Time Taken	Containers:	Pres
01 D14288 (EB-24; 6.5'-7.0')	Soil	EPA 8080	9/11/97	0825	Brass Tube 4oz. Jar	no
02 D14289 (EB-25; 6.5'-7.0')	Soil	EPA 8080	9/11/97	0925	Brass Tube 4oz. Jar	no
03 D14291 (SS-11; 0'-0.5')	Soil	EPA 8080	9/11/97	1033	Brass Tube 4oz. Jar	no
04 D14292 (SS-12,13,14,15; 0'-0.5')	Soil	EPA 8080	9/11/97	0957,1005, 1010,1015	Brass Tube 4oz. Jar	no
05 D14293 (EB-1; .5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1441	Brass Tube	no
06 D14294 (EB-1; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1446	Brass Tube	no
07 D14295 (EB-2; .5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1439	Brass Tube	no
08 D14296 (EB-2; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1441	Brass Tube	no
09 D14297 (EB-3; .5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1348	Brass Tube	no
10 D14298 (EB-3; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1352	Brass Tube	no

Relinquished By: 	Received By:	Date: 9/11/97	Time: 6:10 pm
Relinquished By: 	Received By: Amy D. [unclear]	Date: 9-11-97	Time: 9:50
Relinquished By:	Received By:	Date:	Time:

Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Subcontract Chain of Custody

17300

Subcontract Lab: WEST		Date Sent: 9/11/97	Project Name: 1124-2		Due Date: 9/16/97 RUSH	
Sample ID and Source	Matrix	Required Analysis	Date Taken	Time Taken	Containers	Pres
D14299 (EB-4; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1356	Brass Tube	no
D14300 (EB-4; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1358	Brass Tube	no
D14301 (EB-5; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1144	Brass Tube	no
D14302 (EB-5; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1148	Brass Tube	no
D14303 (EB-6; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1433	Brass Tube	no
D14304 (EB-6; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1435	Brass Tube	no
D14305 (EB-7; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1343	Brass Tube	no
D14306 (EB-7; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1346	Brass Tube	no
D14307 (EB-8; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1337	Brass Tube	no
D14308 (EB-8; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1340	Brass Tube	no
D14309 (EB-9; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1152	Brass Tube	no
D14310 (EB-9; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1156	Brass Tube	no
D14311 (EB-10; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1330	Brass Tube	no
D14312 (EB-10; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1333	Brass Tube	no

Relinquished By: <i>Kelley R. [Signature]</i>	Received By: <i>[Signature]</i>	Date: 9/11/97	Time: 6:10 pm
Relinquished By: <i>[Signature]</i>	Received By: <i>Troy D. [Signature]</i>	Date: 9-11-97	Time: 9:50
Relinquished By: <i>[Signature]</i>	Received By:	Date:	Time:

Entech Analytical Labs, Inc.

CA ELAP# 2224

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Subcontract Chain of Custody

17300

Subcontract Lab:		Date Sent:	Project Name:		Due Date:	
WEST		9/11/97	1124-2		9/16/97 RUSH	
Sample ID and Source	Matrix	Required Analysis	Date Taken	Time Taken	Containers	Pres
25 D14313 (EB-11; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1450	Brass Tube	no
26 D14314 (EB-11; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1453	Brass Tube	no
27 D14315 (EB-12; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1455	Brass Tube	no
28 D14216 (EB-12; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1458	Brass Tube	no
29 D14317 (EB-13; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1321	Brass Tube	no
30 D14318 (EB-13; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1325	Brass Tube	no
31 D14319 (EB-14; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1201	Brass Tube	no
32 D14320 (EB-14; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1204	Brass Tube	no
33 D14321 (EB-15; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1315	Brass Tube	no
34 D14322 (EB-15; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1320	Brass Tube	no
35 D14323 (EB-16; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1422	Brass Tube	no
36 D14324 (EB-16; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1426	Brass Tube	no
37 D14325 (EB-17; 5'-1')	Soil	EPA 8080 Pesticides	9/11/97	1251	Brass Tube	no
38 D14326 (EB-17; 1'-1.5')	Soil	EPA 8080 Pesticides	9/11/97	1256	Brass Tube	no

Relinquished By: <i>Kelley Rogers</i>	Received By: <i>[Signature]</i>	Date: 9/11/97	Time: 6:10 pm
Relinquished By: <i>[Signature]</i>	Received By: <i>Amy S. Jumper</i>	Date: 9-11-97	Time: 9:50
Relinquished By:	Received By:	Date:	Time:

LOWNEY ASSOCIATES

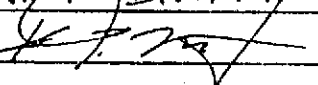
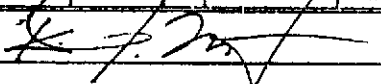
CHAIN OF CUSTODY RECORD

Send Results To: Mountain View Office
 405 Clyde Avenue
 Mountain View, CA 94043
 415-967-2365

Fax Copy To: 415-967-2785 (fax)

Oakland Office
 129 Filbert Street
 Oakland, CA 94607
 510-267-1970

510-267-1972 (fax)

Project Name:						Turnaround Requirements						ANALYSIS REQUESTED													
Job Number: 1124-2						<input type="checkbox"/> 10 working days <input type="checkbox"/> 5 working days <input checked="" type="checkbox"/> 3 working days <input type="checkbox"/> 48 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 2-3 hours (RUSH)						* 8080, 8015 / 8020, 8010 Pb, As, Hg, Cr 8015, 8020 * 8080, 8015 / 8020, Pb, As, Hg, Cr * 8080, Pb, As, Hg, Cr * 8080 *													
Report To: PETER LANGTRY																									
Sampler (print): KEVIN M. GIVENNA																									
Sampler (signature): 																									
QC Requirements:																									
<input checked="" type="checkbox"/> Level A (standard) <input type="checkbox"/> Level B <input type="checkbox"/> Level C <input type="checkbox"/> Level D																									
Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.																Remarks				
EB-24; 6.5'-7.0'	9-11-97	0825	SOIL	1	D14288	✓																			
EB-25; 6.5'-7.0'		0925			D14289	✓																			
SS-10; 0'-0.5'		1025			D14290		✓																		
SS-11; 0'-0.5'		1033			D14291			✓																	
SS-12; 0'-0.5'		0957			COMPOSITE D14292				✓												* DETAIL SHEET ATTACHED				
SS-13; 0'-0.5'		1005								✓															
SS-14; 0'-0.5'		1010								✓															
SS-15; 0'-0.5'		1015								✓															
EB-1; 5'-1'		14:41			D14293					✓															
EB-1; 1'-1.5'		14:46			D14294					✓															
EB-2; .5'-1'		14:39			D14295					✓															
EB-2; 1'-1.5'		14:41			D14296					✓															
EB-3; .5'-1'		13:48			D14297					✓															
EB-3; 1'-1.5'		13:52			D14298					✓															
Relinquished By:  Date: 9-11-97 Time: 1500						Received By:						Date: Time:						PM initials							
Relinquished By:						Date: Time:						Received By:						Date: Time:							
Relinquished By:						Date: Time:						Lab of Record: <u>Entech</u>						Received by Lab: <u>Alan A.</u> Date: 9-11-97 Time: 1500						Temperature	

PAGE 1
OF 4

* DETAIL SHEET ATTACHED

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

Send Results To: Mountain View Office
 405 Clyde Avenue
 Mountain View, CA 94043
 415-967-2365

Fax Copy To: 415-967-2785 (fax)

Oakland Office
 129 Filbert Street
 Oakland, CA 94607
 510-267-1970

510-267-1972 (fax)

Project Name: Job Number: 1124-2 Report To: PETER LANGETRY Sampler (print): KEVIN McEIVENNA Sampler (signature): <i>[Signature]</i> QC Requirements: <input checked="" type="checkbox"/> Level A (standard) <input type="checkbox"/> Level B <input type="checkbox"/> Level C <input type="checkbox"/> Level D					Turnaround Requirements <input type="checkbox"/> 10 working days <input type="checkbox"/> 5 working days <input checked="" type="checkbox"/> 3 working days <input type="checkbox"/> 48 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 2-3 hours (RUSII)		ANALYSES REQUESTED									
8080*																
Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.											Remarks
EB-A; .5'-1'	9-11-97	13:56	SOIL	1	D14299											
EB-A; 1'-1.5'		13:58		1	D14300											PAGE 2
EB-5; .5'-1'		1144			D14301											OF 4
EB-5; 1'-1.5'		1148			D14302											
EB-6; .5'-1'		14:33			D14303											* DETAIL SHEET
EB-6; 1'-1.5'		14:35			D14304											ATTACHED
EB-7; .5'-1'		13:43			D14305											
EB-7; 1'-1.5'		13:46			D14306											
EB-8; .5'-1'		13:37			D14307											
EB-8; 1'-1.5'		13:40			D14308											
EB-9; .5'-1'		1152			D14309											
EB-9; 1'-1.5'		1156			D14310											
EB-10; .5'-1'		13:30			D14311											
EB-10; 1'-1.5'		13:33			D14312											
Relinquished By: <i>[Signature]</i> Date: 9-11-97 Time: 1500					Received By:					Date: _____ Time: _____					PM initials Temperature	
Relinquished By:					Received By:					Date: _____ Time: _____						
Relinquished By:					Lab of Record: Entech					Received by Lab: <i>[Signature]</i> Date: 9-11-97 Time: 1500						

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

Send Results To: Mountain View Office
 405 Clyde Avenue
 Mountain View, CA 94043
 415-967-2365

Oakland Office
 129 Filbert Street
 Oakland, CA 94607
 510-267-1970
 510-267-1972 (fax)

Fax Copy To: 415-967-2785 (fax)

Project Name:

Turnaround Requirements

ANALYSES REQUESTED

Job Number: 1124-2

Report To: PETER LANGTRY

Sampler (print): KEVIN M. IUVENNA

Sampler (signature): *[Signature]*

QC Requirements:

Level A (standard) Level B Level C Level D

- 10 working days
- 5 working days
- 3 working days
- 48 hours
- 24 hours
- 2-3 hours (RUSH)

80800*									
--------	--	--	--	--	--	--	--	--	--

Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.	Remarks
EB-11: .5'-1'	9-11-97	14:50	SOIL	1	D14313	
EB-11: 1'-1.5'		14:53			D14314	
EB-12: .5'-1'		14:55			D14315	
EB-12: 1'-1.5'		14:58			D14316	
EB-13: .5'-1'		13:21			D14317	
EB-13: 1'-1.5'		13:25			D14318	
EB-14: .5'-1'		1201			D14319	
EB-14: 1'-1.5'		1204			D14320	
EB-15: .5'-1'		13:15			D14321	
EB-15: 1'-1.5'		13:20			D14322	
EB-16: .5'-1'		14:20			D14323	
EB-16: 1'-1.5'		14:20			D14324	
EB-17: .5'-1'		12:51			D14325	
EB-17: 1'-1.5'		12:56			D14326	

PAGE 3
 OF 4
 *DETAIL SHEET
 ATTACHED

Relinquished By: *[Signature]* Date: 9-11-97 Time: 1500

Relinquished By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Lab of Record: Entech

Received by Lab: *[Signature]* Date: 9-11-97 Time: 1500

PM initials

Temperature

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

Send Results To:

Mountain View Office
405 Clyde Avenue
Mountain View, CA 94043
415-967-2365

Oakland Office
129 Filbert Street
Oakland, CA 94607
510-267-1970
 510-267-1972 (fax)

Fax Copy To:

415-967-2785 (fax)

Project Name:

Turnaround Requirements

ANALYSES REQUESTED

Job Number: 1124-2

Report To: PETER LANGTRY

Sampler (print): KEVIN L. McIVENNA

Sampler (signature): *[Signature]*

QC Requirements:

Level A (standard) Level B Level C Level D

- 10 working days
- 5 working days
- 3 working days
- 48 hours
- 24 hours
- 2-3 hours (RUSH)

Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.	ANALYSES REQUESTED										Remarks
EB-18; .5'-1'	9-11-97	12:05	SOIL	1	D14327	80800*										
EB-18; 1'-1.5'		12:13			D14328											
EB-19; .5'-1'		14:10			D14329											
EB-19; 1'-1.5'		14:12			D14330											
EB-20; .5'-1'		12:33			D14331											
EB-20; 1'-1.5'		12:37			D14332											
EB-21; .5'-1'		12:20			D14333											
EB-21; 1'-1.5'		12:24			D14334											
EB-22; .5'-1'		12:44			D14335											
EB-22; 1'-1.5'		12:48			D14336											
EB-23; .5'-1'		11:30			D14337											
EB-23; 1'-1.5'		11:35			D14338											

Relinquished By: *[Signature]* Date: 9-11-97 Time: 1500

Received By: _____ Date: _____ Time: _____

PM initials

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

Lab of Record: Entech

Received by Lab: *[Signature]* Date: 9-11-97 Time: 1500

Temperature:

PAGE 4
OF 4

*DETAIL SHEET
ATTACHED

**VERIFICATION SAMPLING RESULTS AND
REQUEST FOR NO FURTHER ACTION**

15550 Washington Avenue
San Lorenzo, California

This report has been prepared for:

Centex Homes

1855 Gateway Blvd., Suite 650, Concord, California 94520

December 29, 1998

Project No. 1124-2A

ENVIRONMENTAL
PROTECTION
98 DEC 30 AM 11:24

Mountain View

Oakland

Pasadena

Pleasanton

December 29, 1998
1124-2A

Ms. Madhulla Logan
ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: VERIFICATION SAMPLING RESULTS AND REQUEST FOR NO FURTHER ACTION
15550 WASHINGTON AVENUE
SAN LORENZO, CALIFORNIA

Dear Ms. Logan:

On behalf of Centex Homes, we are pleased to present this report summarizing the results of the verification soil sampling performed at the Washington Avenue property, located at 15550 Washington Avenue in South San Lorenzo, California, and to request "no further action" for the site from the Alameda County Department of Environmental Health (ACDEH).

Background

The approximately 7-acre property has historically been utilized for agricultural purposes. To assess the presence of residual pesticides as a result of the former agricultural use, a soil quality reconnaissance was performed in August and September, 1997. Laboratory analysis of samples collected from the upper 1½ foot from the site detected residual pesticides, including up to 5.3 parts per million (ppm) total DDT compounds. The mean DDT concentration exceeded the 1.0 ppm total threshold limit concentration (TTLC) and the preliminary remedial goal (PRG) of 1.3 ppm. Up to 0.26 ppm dieldrin, 0.43 ppm endrin, and 0.26 ppm chlordane were also detected. The PRGs for dieldrin, endrin, and chlordane are 0.028 ppm, 20 ppm, and 0.34 ppm, respectively. In addition, the TTLCs for dieldrin, endrin, and chlordane are 8.0 ppm, 0.2 ppm, and 2.5 ppm. Clean-up goals for total DDT, dieldrin, endrin, and chlordane (either the TTLC or PRG, whichever is lowest) were defined as the following:

Table 1: Clean-up Goals

Pesticide	Clean-up Goal	Source
Total DDT	1.0	TTLC
Dieldrin	0.028	PRG
Endrin	0.2	TTLC
Chlordane	0.34	PRG

The clean-up goals were presented in the October 7, 1997, work plan, which was verbally approved by the ACDEH in October 1997. The work plan proposed soil mixing to reduce the concentrations of residual pesticides.

Because of a change in development plans for multi-family to single-family residential, a revised sampling plan was presented in a work plan addendum dated August 12, 1998. If

laboratory analysis of a composite sample detected a concentration of pesticides that was 25 percent or greater than the clean-up goal(s); then the four samples that comprise the respective composite sample were to be analyzed individually for organochlorine pesticides. The revised plan included the collection of one randomly located sample per lot and compositing four lots into one for laboratory analysis.

As discussed below, additional organochlorine pesticides were detected in the verification samples. The detected concentrations were compared to residential PRGs, which are presented below in Table 2. The residential PRGs are the proposed clean-up goals for these pesticides.

Table 2: Additional Clean-up Goals

Pesticide	Clean-up Goal	Source
BHC	0.071	PRG
Aldrin	0.026	PRG
Toxaphene	0.4	PRG

Initial Soil Mixing and Soil Sampling

Soil mixing was initially performed on October 1 through October 27, 1998, by Desilva Gates, Inc. The upper 6 feet of soil contained within each of the 76 single-family residential lots was mixed using scrapers and bulldozers. After the mixing was completed, soil samples were collected from randomly chosen locations within each of the 76 lots; one verification soil sample was collected per single-family lot from the ground surface to approximately ½ foot. A total of 19 four-point composite samples were analyzed for organochlorine pesticides, including DDT (EPA Test Method 8080). The soil sampling protocol is presented in Attachment A. Laboratory analytical results are summarized in Table B-1 in Appendix B.

Because seven of the four-point composite samples (28 total individual samples) contained concentrations of pesticides that were 25 percent or greater than the clean-up goals, the 28 individual-lot samples were analyzed for organochlorine pesticides (EPA Test Method 8080). Laboratory analytical results of the 28 individual samples indicated that lots 36, 39, and 46 contained concentrations of organochlorine pesticides above the clean-up goals.

Secondary Soil Mixing and Verification Soil Sampling

Secondary mixing of lots 36, 39, and 46 was performed during the week of November, 16, 1998. Soil samples were collected from each lot for analysis for organochlorine pesticides (EPA Test Method 8080). Soil sampling protocol is presented in Attachment A. The laboratory analytical results are summarized in Table B-1.

Based on the analytical results of samples collected from lots 36, 39, and 46, the second round of mixing was successful in reducing concentrations of total DDT, dieldrin, endrin, chlordane, and total BHC to below the clean-up goals.

Request for No Further Action

The residual levels of total DDT, dieldrin, endrin, chlordane, and total BHC detected in the soil samples are generally significantly less than the clean-up goals, and are therefore not a significant threat to human health. Furthermore, the residual concentrations will continue to decrease over time due to natural degradation processes. Therefore, based on the analytical results, further work in this area is not required; we recommend that the ACDEH issue a "no further action" letter for the site.

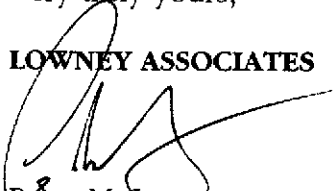
Limitations

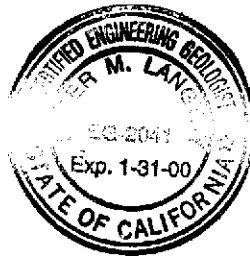
This report was prepared for the use of Centex Homes in evaluating soil quality at the referenced site at the time of this study. The accuracy and reliability of geo- or hydrochemical studies are a reflection of the number and type of samples taken and extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical and other data presented in this report can change over time and are applicable only to the time this study was performed.

Thank you for choosing us to assist you with this project. If you have any questions, please call and we shall be glad to discuss them with you.

Very truly yours,

LOWNEY ASSOCIATES


Peter M. Langtry, R.G., C.E.G.
Senior Project Geologist

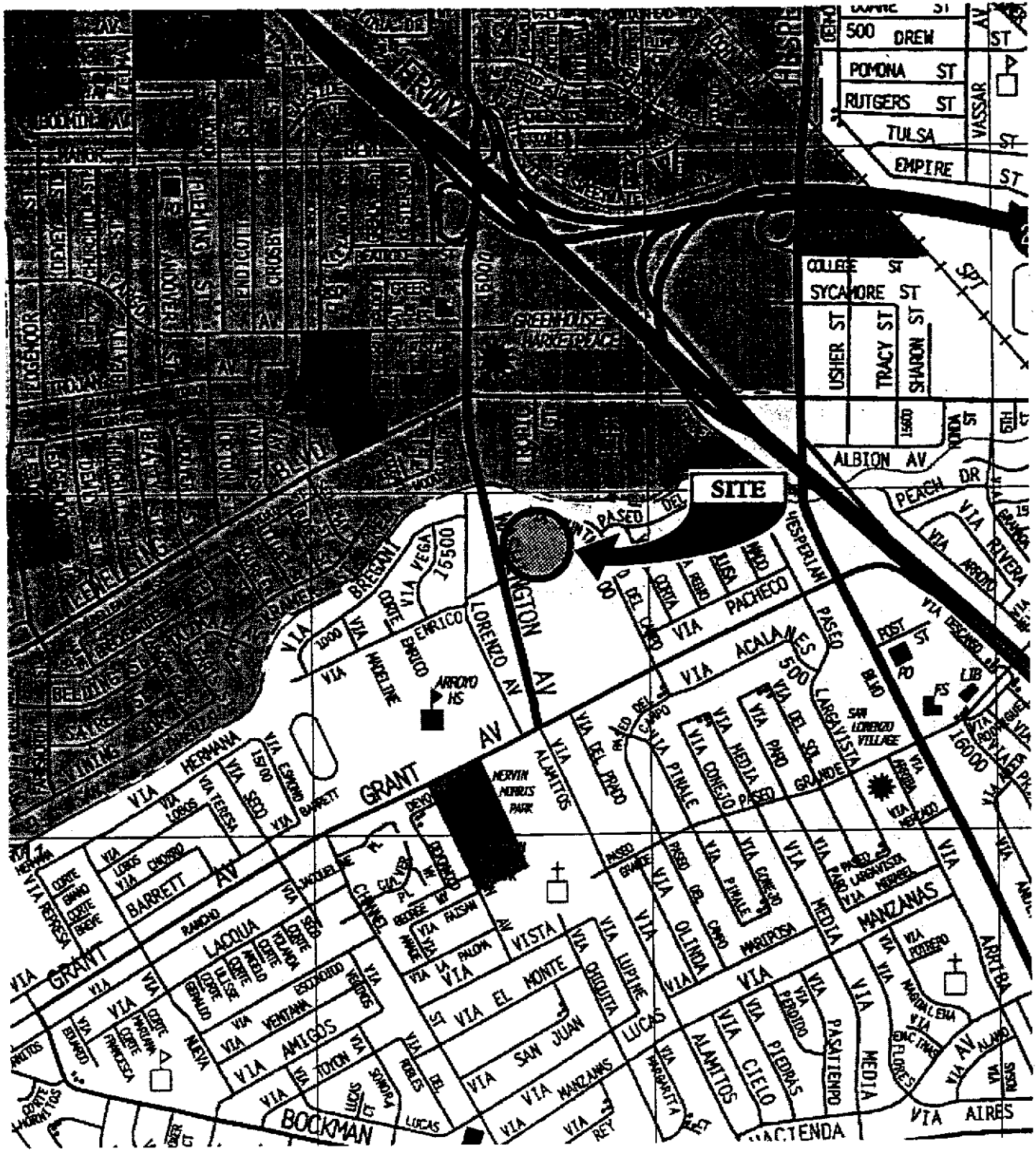


PML:jcm

Copies: Addressee (1)
Centex Homes (2)
Attn: Mr. Tom Schulz

Attachments Attachment A. Soil Sampling Protocol
Attachment B. Table B-1. Summary of Laboratory Analytical Data
Laboratory Analytical Reports

OAK, S:\Archive\Project\1200\1124-2A.R1



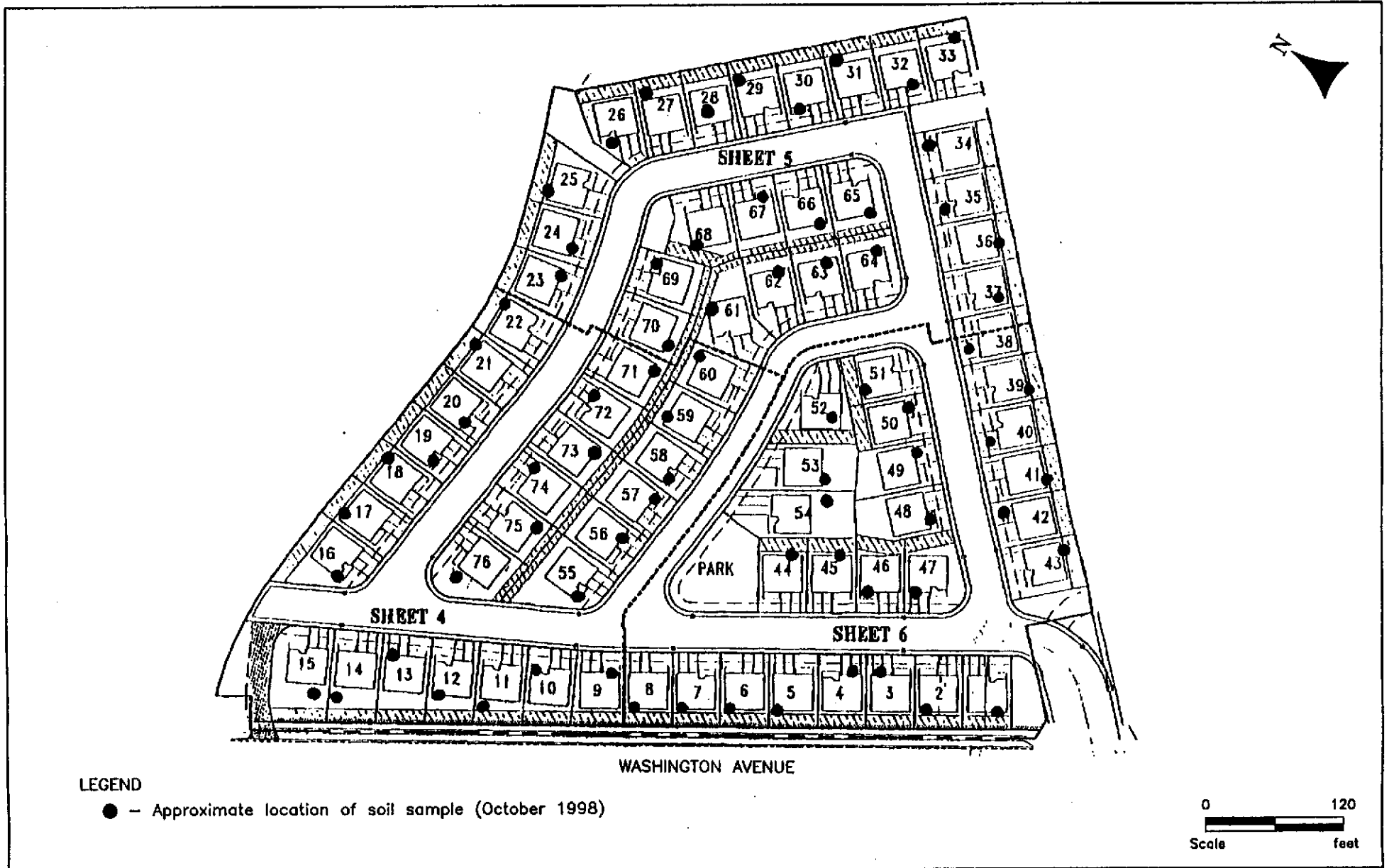
"Reproduced with permission granted by THOMAS BROS. MAP"

12/28/83

VICINITY MAP
WASHINGTON AVENUE
San Lorenzo, California

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 1
1124-2A



12/98*EG

SITE PLAN
WASHINGTON AVENUE
 San Lorenzo, California

**ATTACHMENT A
SOIL SAMPLING PROTOCOL**

Each single-family residential lot was divided into four quadrants designated by numeric values ranging from 0 - 0.25, 0.26 - 0.5, 0.6 - 0.75, and 0.76 - 1.0. Using a random number function on a calculator, locations of the soil samples were determined for each individual lot. Following the initial round of soil mixing, the individual lot samples were composited by the laboratory so that a total of 19 four-point composite samples were analyzed for organochlorine pesticides, including DDT (EPA Test Method 8080). Soil samples collected following the second round of soil mixing were collected from lots 36, 39, and 46 using the same random location method described above.

Soil samples were collected using a hand operated slide-hammer. The soil samples were collected in brass liners, the ends covered in aluminum foil, taped, and capped with plastic end caps. The samples were then placed in a ice cooled chest for transport to the laboratory under chain of custody documentation. All soil sampling equipment was cleaned in a solution of tri-sodium phosphate and distilled water before use.

**ATTACHMENT B
LABORATORY ANALYTICAL RESULTS**

TABLE B-1. Analytical Results of Verification Soil Samples
(concentrations in parts per million)

INITIAL ROUND OF COMPOSITE SOIL SAMPLING

EPA Method 8080 Analyte	Lots (1 - 4) 10/27/98	Lots (5 -8) 10/27/98	Lots (9 -12) 10/27/98	Lots (13 -16) 10/27/98	Lots (17 -20) 10/27/98	Lots (21 -24) 10/27/98	Lots (25 -27, Lot 68) 10/14/98	Lots (28 -31) 10/14/98	Lots (32 -35) 10/14/98	Lots (36 -39) 10/14/98
Total DDT ¹	0.29	0.088	0.3668	0.109	0.110	0.083	0.482	<0.01	<0.01	0.43
Total BHC	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.005	<0.01
Dieldrin	0.01	<0.004	0.008	<0.004	0.0044	<0.004	0.023	<0.01	<0.01	<0.02
Chlordane	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.005	<0.005	0.041
Endrin	0.0084	0.038	0.021	0.011	0.081	0.0088	0.02	<0.01	<0.01	<0.02
All Other Analytes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

< - Indicates analyte below method detection limit

ND = Not Detected (Below DRL)

Bolded results indicates composite samples with concentrations greater than 25% of clean-up goals (Table 1 and Table 2)

¹ = Total DDT is summation of 4,4'-DDD + 4,4'-DDE + 4,4'-DDT

EPA Method 8080 Analyte	Lots (40 -43) 10/14/98	Lots (44,45, 54,57) 10/28/98	Lots (46 -49) 10/28/98	Lots (50 -53) 10/28/98	Lots (55,56, 58,59) 10/27/98	Lots (60 -63) 10/27/98	Lots (64 -67) 10/27/98	Lots (69 -72) 10/27/98	Lots (73 -76) 10/27/98
Total DDT ¹	0.181	0.404	0.033	0.097	0.097	0.034	0.082	0.1783	0.099
Total BHC	<0.005	<0.002	<0.002	0.0054	<0.002	<0.002	<0.002	0.0133	0.0056
Dieldrin	<0.01	0.0077	0.018	0.0043	0.0044	<0.004	<0.004	0.0063	<0.004
Chlordane	0.006	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Endrin	<0.01	0.037	0.011	0.014	0.0078	<0.004	0.0048	0.018	0.012
Aldrin	<0.005	<0.002	0.0054	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
All Other Analytes	ND	ND	ND	ND	ND	ND	ND	ND	ND

< - Indicates analyte below method detection limit

ND = Not Detected (Below DRL)

Bolded results indicates composite samples with concentrations greater than 25% of clean-up goals (Table 1 and Table 2)

¹ = Total DDT is summation of 4,4'-DDD + 4,4'-DDE + 4,4'-DDT

LABORATORY ANALYSIS OF INDIVIDUAL LOT SAMPLES

EPA Method 8080 Analyte	Lot 1 10/27/98	Lot 2 10/28/98	Lot 3 10/28/98	Lot 4 10/27/98	Lot 9 10/27/98	Lot 10 10/27/98	Lots 11 10/27/98	Lot 12 10/27/98	Lot 17 10/27/98
Total DDT ¹	0.074	0.126	0.1633	0.124	0.752	0.138	0.052	0.04	0.155
Total BHC	<0.002	0.006	<0.002	0.0056	<0.002	0.014	<0.002	<0.002	<0.002
Dieldrin	<0.004	0.0045	<0.004	0.0041	0.021	0.0041	<0.004	<0.004	0.0063
Chlordane	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Endrin	<0.004	0.072	0.0073	0.021	0.019	0.0061	0.0049	<0.004	0.014
Aldrin	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Endosulfan II	<0.004	<0.004	<0.004	<0.004	0.011	<0.004	<0.004	<0.004	<0.004
All Other Analytes	ND	ND	ND	ND	ND	ND	ND	ND	ND

< - Indicates analyte below method detection limit

ND = Not Detected (Below DRL)

Bolded results indicates composite samples with concentrations greater than the clean-up goals (Table 1 and Table 2)

¹ = Total DDT is summation of 4,4'-DDD + 4,4'-DDE + 4,4'-DDT

EPA Method 8080 Analyte	Lot 18 10/27/98	Lot 19 10/27/98	Lot 20 10/27/98	Lot 25 10/27/98	Lot 26 10/27/98	Lot 27 10/27/98	Lots 36 10/14/98	Lots 37 10/14/98	Lot 38 10/14/98	Lot 39 10/14/98
Total DDT ¹	0.088	0.114	0.122	0.158	0.166	0.4565	1.93	0.15	0.077	2.3
Total BHC	0.0023	<0.002	0.0022	<0.002	0.0034	<0.002	<0.05	<0.005	<0.005	<0.05
Dieldrin	<0.004	0.0045	<0.004	0.011	0.0057	0.014	0.14	<0.01	<0.01	<0.1
Chlordane	<0.0017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.05	0.0052	<0.005	0.143
Endrin	0.0097	0.0062	0.011	0.011	0.156	0.014	<0.1	<0.01	<0.01	<0.1
Aldrin	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.05	<0.005	<0.005	<0.05
Endosulfan II	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.1	<0.01	<0.01	<0.1
All Other Analytes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

< - Indicates analyte below method detection limit

ND = Not Detected (Below DRL)

Bolded results indicates composite samples with concentrations greater than the clean-up goals (Table 1 and Table 2)

¹ = Total DDT is summation of 4,4'-DDD + 4,4'-DDE + 4,4'-DDT

LABORATORY ANALYSIS OF INDIVIDUAL LOT SAMPLES (Continued)

EPA Method 8080 Analyte	Lots 44 10/28/98	Lot 45 10/28/98	Lot 46 10/28/98	Lot 47 10/28/98	Lot 48 10/28/98	Lot 49 10/28/98	Lot 54 10/28/98	Lot 57 10/28/98	Lot 68 10/27/98
Total DDT ³	0.307	0.167	0.213	0.051	0.062	0.144	0.131	0.139	0.1542
Total BHC	0.012	0.037	0.0037	0.0196	<0.002	<0.002	0.0048	<0.002	<0.002
Dieldrin	0.013	0.0075	0.056	<0.004	<0.004	0.0063	0.0053	<0.004	0.0047
Chlordane	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Endrin	0.027	0.014	0.022	0.066	0.0092	0.019	0.048	0.017	0.013
Aldrin	<0.002	<0.002	0.018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Endosulfan II	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
All Other Analytes	ND	ND	ND	ND	ND	ND	ND	ND	ND

< - Indicates analyte below method detection limit

ND = Not Detected (Below DRL)

Bolded results indicates composite samples with concentrations greater than the clean-up goals (Table 1 and Table 2)

¹ = Total DDT is summation of 4,4'-DDD + 4,4'-DDE + 4,4'-DDT

FINAL VERIFICATION SAMPLES

EPA Method 8080 Analyte	Lot 36 11/19/98	Lot 39 11/19/98	Lot 46 11/19/98
Total DDT ³	0.27	0.28	0.28
Total BHC	<0.005	<0.005	<0.005
Dieldrin	0.016	0.013	0.018
Chlordane	0.0146	0.0054	0.0073
Endrin	<0.01	<0.01	<0.01
Aldrin	<0.005	<0.005	<0.005
Endosulfan II	<0.01	<0.01	<0.01
Toxaphene	0.3	0.28	0.31
All Other Analytes	ND	ND	ND

< - Indicates analyte below method detection limit

ND = Not Detected (Below DRL)

³ = Total DDT is summation of 4,4'-DDD + 4,4'-DDE + 4,4'-DDT

Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

October 19, 1998

Peter Langtry
Lowney Associates
129 Filbert St.
Oakland, CA 94607

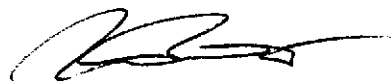
Subject: 4 Soil Samples
Lab #'s: E18543 through E18546
Project Name: 15550 Washington Avenue
Project Number: 1124-2A
Method(s): EPA 8080 - Pesticides
Subcontract Lab: Acculabs, Inc.

Dear Peter Langtry,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2224). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,



Michelle L. Anderson
Lab Director



Acculabs Inc.

Formerly West Laboratory

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19157
October 19, 1998

Michelle Anderson
Entech Analytical Labs, Inc.
525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

Subject : 4 Soil samples
Project Name : Lowney Associates
Project Number :

Dear Ms. Anderson,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Acculabs - Davis is certified by the State of Arizona (AZ0583) and the State of California (# 1346). If you have any questions regarding procedures or results, please call me at 530-757-0920.

Sincerely,

Tom Kwoka



Acculabs Inc.

Formerly West Laboratory

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19157
October 19, 1998

Sample Name : E18543 (Lot 28, 29, 30, 31-0-.5)

Project Name : Lowney Associates

Date Analyzed : 10/16/98

Project Number :

Date Received : 10/15/98

Sample Date : 10/14/98

Dilution : 1:1

Date Extracted : 10/15/98

Sample Matrix : Soil

Extr. Method : EPA 3550

Lab Number : 19157-01

QC Batch : PS981003

Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.0050	<0.0050	mg/Kg
gamma-BHC	0.0050	<0.0050	mg/Kg
beta-BHC	0.0050	<0.0050	mg/Kg
Heptachlor	0.0050	<0.0050	mg/Kg
delta-BHC	0.0050	<0.0050	mg/Kg
Aldrin	0.0050	<0.0050	mg/Kg
Heptachlor Epoxide	0.0050	<0.0050	mg/Kg
gamma-Chlordane	0.0050	<0.0050	mg/Kg
Endosulfan 1	0.0050	<0.0050	mg/Kg
alpha-Chlordane	0.0050	<0.0050	mg/Kg
Dieldrin	0.010	<0.010	mg/Kg
DDE	0.010	<0.010	mg/Kg
Endrin	0.010	<0.010	mg/Kg
Endosulfan 2	0.010	<0.010	mg/Kg
DDD	0.010	<0.010	mg/Kg
Endrin Aldehyde	0.010	<0.010	mg/Kg
DDT	0.010	<0.010	mg/Kg
Endosulfan Sulfate	0.010	<0.010	mg/Kg
Methoxychlor	0.050	<0.050	mg/Kg
Chlordane Technical	0.10	<0.10	mg/Kg
Toxaphene	0.20	<0.20	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	84	% Recovery
Decachlorobiphenyl (sur)	(54-166)	92	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By :


Tom Kwoka



Acculabs Inc.

Formerly West Laboratory

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19157
October 19, 1998

Sample Name : **E18544 (Lot 32, 33, 34, 35-0-.5)**

Project Name : Lowney Associates
Project Number :
Sample Date : 10/14/98
Date Extracted : 10/15/98
Extr. Method : EPA 3550
QC Batch : PS981003

Date Analyzed : 10/16/98
Date Received : 10/15/98
Dilution : 1:1
Sample Matrix : Soil
Lab Number : 19157-02

Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.0050	<0.0050	mg/Kg
gamma-BHC	0.0050	<0.0050	mg/Kg
beta-BHC	0.0050	<0.0050	mg/Kg
Heptachlor	0.0050	<0.0050	mg/Kg
delta-BHC	0.0050	<0.0050	mg/Kg
Aldrin	0.0050	<0.0050	mg/Kg
Heptachlor Epoxide	0.0050	<0.0050	mg/Kg
gamma-Chlordane	0.0050	<0.0050	mg/Kg
Endosulfan 1	0.0050	<0.0050	mg/Kg
alpha-Chlordane	0.0050	<0.0050	mg/Kg
Dieldrin	0.010	<0.010	mg/Kg
DDE	0.010	<0.010	mg/Kg
Endrin	0.010	<0.010	mg/Kg
Endosulfan 2	0.010	<0.010	mg/Kg
DDD	0.010	<0.010	mg/Kg
Endrin Aldehyde	0.010	<0.010	mg/Kg
DDT	0.010	<0.010	mg/Kg
Endosulfan Sulfate	0.010	<0.010	mg/Kg
Methoxychlor	0.050	<0.050	mg/Kg
Chlordane Technical	0.10	<0.10	mg/Kg
Toxaphene	0.20	<0.20	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	88	% Recovery
Decachlorobiphenyl (sur)	(54-166)	94	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By :


Tom Kwoka



Acculabs Inc.

Formerly West Laboratory

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19157
October 19, 1998

Sample Name : **E18545 (Lot 36, 37, 38, 39-0-.5)**

Project Name : Lowney Associates

Date Analyzed : 10/16/98

Project Number :

Date Received : 10/15/98

Sample Date : 10/14/98

Dilution : 1:2

Date Extracted : 10/15/98

Sample Matrix : Soil

Extr. Method : EPA 3550

Lab Number : 19157-03

QC Batch : PS981003

Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.010	< 0.010	mg/Kg
gamma-BHC	0.010	< 0.010	mg/Kg
beta-BHC	0.010	< 0.010	mg/Kg
Heptachlor	0.010	< 0.010	mg/Kg
delta-BHC	0.010	< 0.010	mg/Kg
Aldrin	0.010	< 0.010	mg/Kg
Heptachlor Epoxide	0.010	< 0.010	mg/Kg
gamma-Chlordane	0.010	0.014	mg/Kg
Endosulfan 1	0.010	< 0.010	mg/Kg
alpha-Chlordane	0.010	0.027	mg/Kg
Dieldrin	0.020	< 0.020	mg/Kg
DDE	0.020	0.23	mg/Kg
Endrin	0.020	< 0.020	mg/Kg
Endosulfan 2	0.020	< 0.020	mg/Kg
DDD	0.020	< 0.020	mg/Kg
Endrin Aldehyde	0.020	< 0.020	mg/Kg
DDT	0.020	0.20	mg/Kg
Endosulfan Sulfate	0.020	< 0.020	mg/Kg
Methoxychlor	0.10	< 0.10	mg/Kg
Chlordane Technical	0.20	< 0.20	mg/Kg
Toxaphene	0.40	< 0.40	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	88	% Recovery
Decachlorobiphenyl (sur)	(54-166)	98	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By :


Tom Kwoka



Acculabs Inc.

Formerly West Laboratory

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19157
October 19, 1998

Sample Name : **E18546 (Lot 40, 41, 42, 43-0-5)**

Project Name : Lowney Associates

Project Number :

Sample Date : 10/14/98

Date Extracted : 10/15/98

Extr. Method : EPA 3550

QC Batch : PS981003

Date Analyzed : 10/16/98

Date Received : 10/15/98

Dilution : 1:1

Sample Matrix : Soil

Lab Number : 19157-04

Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.0050	<0.0050	mg/Kg
gamma-BHC	0.0050	<0.0050	mg/Kg
beta-BHC	0.0050	<0.0050	mg/Kg
Heptachlor	0.0050	<0.0050	mg/Kg
delta-BHC	0.0050	<0.0050	mg/Kg
Aldrin	0.0050	<0.0050	mg/Kg
Heptachlor Epoxide	0.0050	<0.0050	mg/Kg
gamma-Chlordane	0.0050	<0.0050	mg/Kg
Endosulfan 1	0.0050	<0.0050	mg/Kg
alpha-Chlordane	0.0050	0.0060	mg/Kg
Dieldrin	0.010	<0.010	mg/Kg
DDE	0.010	0.091	mg/Kg
Endrin	0.010	<0.010	mg/Kg
Endosulfan 2	0.010	<0.010	mg/Kg
DDD	0.010	<0.010	mg/Kg
Endrin Aldehyde	0.010	<0.010	mg/Kg
DDT	0.010	0.090	mg/Kg
Endosulfan Sulfate	0.010	<0.010	mg/Kg
Methoxychlor	0.050	<0.050	mg/Kg
Chlordane Technical	0.10	<0.10	mg/Kg
Toxaphene	0.20	<0.20	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	81	% Recovery
Decachlorobiphenyl (sur)	(54-166)	89	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By :


Tom Kwoka

Acculabs Inc.

October 15, 1998

QC Report
Pesticides/PCB by EPA 8081A/8082

QC Batch PS981003

Matrix: Soil

Method Blank

Parameter	MRL(mg/Kg)	Measured Value(mg/Kg)
Aldrin	(.0050)	<.0050
alpha-BHC	(.0050)	<.0050
beta-BHC	(.0050)	<.0050
delta-BHC	(.0050)	<.0050
gamma-BHC	(.0050)	<.0050
Chlordane Technical	(0.10)	<0.10
gamma-Chlordane	(.0050)	<.0050
alpha-Chlordane	(.0050)	<.0050
4,4'-DDD	(0.010)	<0.010
4,4'-DDE	(0.010)	<0.010
4,4'-DDT	(0.010)	<0.010
Dieldrin	(0.010)	<0.010
Endosulfan 1	(.0050)	<.0050
Endosulfan 2	(0.010)	<0.010
Endosulfan Sulfate	(0.010)	<0.010
Endrin	(0.010)	<0.010
Endrin Aldehyde	(0.010)	<0.010
Heptachlor	(.0050)	<.0050
Heptachlor Epoxide	(.0050)	<.0050
Toxaphene	(0.20)	<0.20
PCB1016	(0.10)	<0.10
PCB1221	(0.20)	<0.20
PCB1232	(0.10)	<0.10
PCB1242	(0.10)	<0.10
PCB1248	(0.10)	<0.10
PCB1254	(0.10)	<0.10
PCB1260	(0.10)	<0.10



Tom Kwoka
Lab Director

Acculabs Inc.

October 15, 1998

QC Report
Pesticides/PCB by EPA 8081A/8082

QC Batch PS981003

Matrix: Soil

Spike and Spike Duplicate Results

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
gamma-BHC	97	100	3
Heptachlor	103	106	3
Aldrin	94	96	2
Dieldrin	99	101	2
Endrin	135	140	4
4,4'-DDT	96	97	1

Spiked sample ID 19140-01.

Laboratory Control Spike

Parameter	Laboratory Control Spike-(%Rec)
gamma-BHC	96
Heptachlor	99
Aldrin	94
Dieldrin	99
Endrin	139
4,4'-DDT	95
PCB 1016	90
PCB 1260	98



Tom Kwoka
Lab Director

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Subcontract Chain of Custody

19157
RUSH

Subcontract Lab:		Date Sent:	Project Name:		Due Date:	
Arculabs - Davis		10/14/98	LOWNOY Associates		10/19/98	
Sample ID and Source	Matrix	Required Analysis	Date Taken	Time Taken	Containers	Pres?
E18543 (Lot 28-0-1/2)						
Lot 29-0-1/2						
Lot 30-0-1/2						
Lot 31-0-1/2	Soil	8080 PESTICIDES	10/14/98		4 oz jar	01
E18544 (Lot 32-0-1/2)						
Lot 33-0-1/2						
Lot 34-0-1/2						
Lot 35-0-1/2	Soil	8080 PESTICIDES	10/14/98		4 oz jar	02
E18545 (Lot 36-0-1/2)						
Lot 37-0-1/2						
Lot 38-0-1/2						
Lot 39-0-1/2	Soil	8080 PESTICIDES	10/14/98		4 oz jar	03
E18546 (Lot 40-0-1/2)						
Lot 41-0-1/2						
Lot 42-0-1/2						
Lot 43-0-1/2	Soil	8080 PESTICIDES	10/14/98		4 oz jar	04

Relinquished By:	Received By:	Date:	Time:
WRAW via Cal Overnight	Cal Overnight	10/14/98	6 pm
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:
	SA Wood	10/15/98	830

Notes: _____

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

1/2

Send Results To: Mountain View Office
 405 Clyde Avenue
 Mountain View, CA 94043
 415-967-2365

Fax Copy To: 415-967-2785 (fax)

Oakland Office
 129 Filbert Street
 Oakland, CA 94607
 510-267-1970

510-267-1972 (fax)

Project Name: 15550 Washington Avenue

Job Number: 1124-2A

Report To: Peter Langtry

Sampler (print): John McCain

Sampler (signature): John Juli

QC Requirements:

Turnaround Requirements

10 working days

5 working days

3 working days

48 hours

24 hours

2-3 hours (RUSH)

ANALYSES REQUESTED

Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.	Remarks
Lot 28 (0-1/2')	10-14-98		soil	1		} composite
Lot 29 (0-1/2')					E18543	
Lot 30 (0-1/2')						
Lot 31 (0-1/2')						} composite
Lot 32 (0-1/2')					E18544	
Lot 33 (0-1/2')						
Lot 34 (0-1/2')						} composite
Lot 35 (0-1/2')					E18545	
Lot 36 (0-1/2')						
Lot 37 (0-1/2')						} composite with hot 42
Lot 38 (0-1/2')						
Lot 39 (0-1/2')						
Lot 40 (0-1/2')						} composite with hot 42 and hot 43
Lot 41 (0-1/2')					E18546	

Organic Pesticides (8080)

Relinquished By: <u>John Juli</u> Date: <u>10-14-98</u> Time: <u>1:58p</u>	Received By: <u>Babak Minasaz</u> Date: <u>10-14-98</u> Time: <u>1:58p</u>	PM initials
Relinquished By: <u>Babak Minasaz</u> Date: _____ Time: _____	Received By: _____ Date: _____ Time: _____	
Relinquished By: _____ Date: _____ Time: _____	Lab of Record: <u>ENTBCH</u>	Temperature
	Received by Lab: <u>ngtrazd</u> Date: <u>10/14/98</u> Time: <u>3:20p</u>	

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

2/2

Send Results To: Mountain View Office
 405 Clyde Avenue
 Mountain View, CA 94043
 415-967-2365

Fax Copy To: 415-967-2785 (fax)

Oakland Office
 129 Filbert Street
 Oakland, CA 94607
 510-267-1970

510-267-1972 (fax)

Project Name: 15550 Washington Avenue					Turnaround Requirements <input type="checkbox"/> 10 working days <input type="checkbox"/> 5 working days <input checked="" type="checkbox"/> 3 working days <input type="checkbox"/> 48 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 2-3 hours (RUSH)	ANALYSES REQUESTED														
Job Number: 1124-2A						<div style="transform: rotate(-45deg); display: inline-block;">Organochlorine Pesticides (EPA 8160)</div>														
Report To: Peter Langtry																				
Sampler (print): John McCain																				
Sampler (signature): John McCain																				
QC Requirements: <input checked="" type="checkbox"/> Level A (standard) <input type="checkbox"/> Level B <input type="checkbox"/> Level C <input type="checkbox"/> Level D																				
Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.															Remarks
Lot 42 (0-1/2')	10-14-98		soil	1	E18546	X														composite with lot 40 and lot 41
Lot 43 (0-1/2')	↓		↓	↓		X														
Relinquished By: John McCain Date: 10-14-98 Time: 1:58p					Received By: Babak Minasazi Date: 10/14/98 Time: 1:58p					PM initials										
Relinquished By: Babak Minasazi Date: Time:					Received By: Date: Time:					Temperature										
Relinquished By: Date: Time:					Lab of Record: BNTech					Received by Lab: wtrago Date: 10/14/98 Time: 3:20pm										

Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

November 2, 1998

Peter Langtry
Lowney Associates
129 Filbert St.
Oakland, CA 94607

Subject: 15 Soil Samples
Lab #'s: E19314 through E19328
Project Name: Washington Avenue
Project Number: 1124-2A
Method(s): EPA 8080 - Pesticides
Subcontract Lab(s): Advanced Technology Laboratories

Dear Peter Langtry,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2224). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,



Michelle L. Anderson
Lab Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

November 2, 1998

Peter Langtry
Lowney Associates
129 Filbert St.
Oakland, CA 94607

Subject: 15 Soil Samples
Lab #'s: E19314 through E19328
Project Name: Washington Avenue
Project Number: 1124-2A
Method(s): EPA 8080 - Pesticides
Subcontract Lab(s): Advanced Technology Laboratories

Dear Peter Langtry,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2224). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

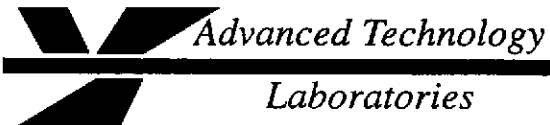


Michelle L. Anderson
Lab Director

RECEIVED

NOV 9 1998

LOWNEY OK



November 2, 1998

ELAP No.: 1838

Entech Analytical Labs, Inc.
525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

ATTN: Ms. Michelle Anderson

Client's Project: Lowney Associates
Lab No.: 30245-001/015

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Cheryl De Los Reyes'.

Cheryl De Los Reyes
Technical Operations Manager
CDR/ra

Enclosures

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

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson


Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30245-001
Sample I.D.: E19314(Lot1-Lot4)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	20	141*	Endosulfan Sulfate	4	ND
4,4'-DDT	20	149*	Endrin	4	8.4
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	10	Toxaphene	170	ND
Endosulfan I	2	ND			

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
NA = Not Analyzed
* = Dilution factor is 5.

Reviewed/Approved By: 
Lee Ingvaldson
Department Supervisor

Date: 11/2/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT


Lab No.: 30245-002
Sample I.D.: E19315(Lot5-Lot8)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	42	Endosulfan Sulfate	4	ND
4,4'-DDT	4	46	Endrin	4	38
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/2/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson


Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30245-003
Sample I.D.: E19316(Lot9-Lot12)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	4.8**	Endosulfan II	4	ND
4,4'-DDE	20	172*	Endosulfan Sulfate	4	ND
4,4'-DDT	20	190*	Endrin	4	21
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	8.0	Toxaphene	170	ND
Endosulfan I	2	ND			

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
NA = Not Analyzed
* = Dilution factor is 5.
** = Unable to confirm within 30%.

Reviewed/Approved By: 
Lee Ingvaldson
Department Supervisor

Date: 11/2/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30245-004
Sample I.D.: E19317(Lot13-Lot16)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	52	Endosulfan Sulfate	4	ND
4,4'-DDT	4	57	Endrin	4	11
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: Lee Ingvaldson
Department Supervisor

Date: 11/2/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson


Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30245-005
Sample I.D.: E19318(Lot17-Lot20)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	55	Endosulfan Sulfate	4	ND
4,4'-DDT	4	55	Endrin	4	81
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	4.4	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: 
Lee Ingvaldson
Department Supervisor

Date: 11/2/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson


Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30245-006
Sample I.D.: E19319(Lot21-Lot24)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	44	Endosulfan Sulfate	4	ND
4,4'-DDT	4	39	Endrin	4	8.8
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: 
Lee Ingvaldson
Department Supervisor

Date: 
11/2/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates Lab No.: 30245-007
Date Sampled: 10/27/98 Sample I.D.: E19320(Lot25-27-Lot68)
Date Received: 10/29/98 QC Batch No.: H988080S352
Matrix: Soil Extraction Date: 10/29/98
Units: ug/kg Date Analyzed: 10/29/98
Analyst Initials: DT Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	12**	Endosulfan II	4	ND
4,4'-DDE	20	242*	Endosulfan Sulfate	4	ND
4,4'-DDT	20	228*	Endrin	4	20
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	23	Toxaphene	170	ND
Endosulfan I	2	ND			

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
NA = Not Analyzed
* = Dilution factor is 5.
** = Unable to confirm within 30%.

Reviewed/Approved By: _____
Lee Ingvaldson
Department Supervisor

Date: 10/29/98

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


Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

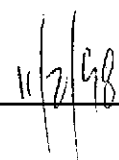
Client's Project: Lowney Associates Lab No.: 30245-008
Date Sampled: 10/28/98 Sample I.D.: E19321(Lot44,45,54,57)
Date Received: 10/29/98 QC Batch No.: H988080S352
Matrix: Soil Extraction Date: 10/29/98
Units: ug/kg Date Analyzed: 10/29/98
Analyst Initials: DT Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	20**	Endosulfan II	4	ND
4,4'-DDE	20	192*	Endosulfan Sulfate	4	ND
4,4'-DDT	20	192*	Endrin	4	37
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	7.7	Toxaphene	170	ND
Endosulfan I	2	ND			

MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
NA = Not Analyzed
* = Dilution factor is 5.
** = Unable to confirm within 30%.

Reviewed/Approved By: 
Lee Ingvaldson
Department Supervisor

Date: 
11/2/98

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

Client: Entech Analytical Labs, Inc.
 Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
 Date Sampled: 10/28/98
 Date Received: 10/29/98
 Matrix: Soil
 Units: ug/kg
 Analyst Initials: DT

Lab No.: 30245-009
 Sample I.D.: E19322(Lot46-Lot49)
 QC Batch No.: H988080S352
 Extraction Date: 10/29/98
 Date Analyzed: 10/29/98
 Extraction Method: 3550
 Dilution Factor: 1

EPA Method 8080

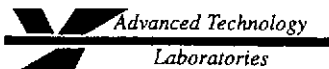
ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	19	Endosulfan Sulfate	4	ND
4,4'-DDT	4	14	Endrin	4	11
Aldrin	2	5.4	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	18	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____
 Lee Ingvaldson
 Department Supervisor

Date: 11/2/98

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



Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson


Client's Project: Lowney Associates
Date Sampled: 10/28/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30245-010
Sample I.D.: E19323(Lot50-Lot53)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	46	Endosulfan Sulfate	4	ND
4,4'-DDT	4	51	Endrin	4	14
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	3.1	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	2.3	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	4.3	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: 
Lee Ingvaldson
Department Supervisor

Date: 11/2/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30245-012
Sample I.D.: E19325(Lot60-Lot63)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	18	Endosulfan Sulfate	4	ND
4,4'-DDT	4	16	Endrin	4	ND
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/2/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30245-013
Sample I.D.: E19326(Lot64-Lot67)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	43	Endosulfan Sulfate	4	ND
4,4'-DDT	4	39	Endrin	4	4.8
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/2/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30245-014
Sample I.D.: E19327(Lot69-Lot72)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1

Date Amended: 11/02/98


EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	4.3#	Endosulfan II	4	ND
4,4'-DDE	4	84	Endosulfan Sulfate	4	ND
4,4'-DDT	4	90	Endrin	4	18
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	2.8	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	8.4	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	2.1	Chlordane	17	ND
Dieldrin	4	6.3	Toxaphene	170	ND
Endosulfan I	2	ND			

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

= Unable to confirm within 30%.

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/2/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 10/29/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30245-015
Sample I.D.: E19328(Lot73-Lot76)
QC Batch No.: H988080S352
Extraction Date: 10/29/98
Date Analyzed: 10/29/98
Extraction Method: 3550
Dilution Factor: 1


Date Amended: 11/02/98

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	49	Endosulfan Sulfate	4	ND
4,4'-DDT	4	50	Endrin	4	12
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	5.6	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lée Ingvaldson
Department Supervisor

Date: 11/2/98

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


Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates Lab No.: Method Blank
Date Sampled: --- Sample I.D.: ---
Date Received: --- QC Batch No.: H988080S352
Matrix: Soil Extraction Date: 10/29/98
Units: ug/kg Date Analyzed: 10/29/98
Analyst Initials: DT Extraction Method: 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	ND	Endosulfan Sulfate	4	ND
4,4'-DDT	4	ND	Endrin	4	ND
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: 
Lee Ingvaldson
Department Supervisor

Date: 10/29/98

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

Spike Recovery and RPD Summary Report - SOIL (ug/kg)

Method : C:\HPCHEM\1\METHODS\PCBPEST1.M (Chemstation Integrator)
 Title : 8081 Pesticides Advanced Technology Laboratory
 Last Update : Wed Sep 30 12:48:09 1998
 Response via : Initial Calibration

Non-Spiked Sample: GB1029A.D

Spike Sample	Spike Duplicate Sample
File ID : GMS1029A.D	GMD1029A.D
Sample : Blank MS E:10/29/98	Blank MSD E:10/29/98
Acq Time: 29 Oct 1998 5:24 pm	29 Oct 1998 5:59 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
gamma-BHC	0.0	40	27	27	67	67	1	9	50-127
Heptachlor	0.0	40	24	24	61	60	0	12	35-136
Aldrin	0.0	40	27	27	67	67	0	15	47-143
Dieldrin	0.0	80	59	60	74	75	2	8	54-134
Endrin	0.0	80	68	69	85	86	1	16	61-138
4,4'-DDT	0.0	80	56	56	69	71	2	22	15-155

QC Batch # G988080S352

Reviewed/Approved By: Lee Ingvaldson Date: 11/2/98
 Department Supervisor

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Subcontract Chain of Custody

By 1 pm

Subcontract Lab:		Date Sent:	Project Name:		Due Date:	
ATL		10/28/98	LOWNEY associates		11/02/98	
Sample ID and Source	Matrix	Required Analysis	Date Taken	Time Taken	Containers	Pres?
E19314 (Lot 1 - Lot 4)	Soil	8080 PESTICIDES	10/27/98		4 oz jar	
E19315 (Lot 5 - Lot 8)						
E19316 (Lot 9 - Lot 12)						
E19317 (Lot 13 - Lot 16)						
E19318 (Lot 17 - Lot 20)						
E19319 (Lot 21 - Lot 24)			10/27/98			
E19320 (Lot 25 - 27, Lot 68)			10/27/98			
E19321 (Lot 44, 45, 54, 57)			10/28/98			
E19322 (Lot 46 - Lot 49)			10/28/98			
E19323 (Lot 50 - Lot 53)						
E19324 (Lot 55, 56, 58, 59)			10/27/98			
E19325 (Lot 60 - Lot 63)						
E19326 (Lot 64 - Lot 67)						
E19327 (Lot 69 - Lot 72)						
E19328 (Lot 73 - Lot 76)						

Relinquished By:	Received By:	Date:	Time:
VARRAO via	Cal Overnight	10/28/98	6 pm
Relinquished By:	Received By:	Date:	Time:
	Diane Galvan	10-29-98	0830
Relinquished By:	Received By:	Date:	Time:

Notes: _____

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

1/2

Send Results To: Mountain View Office
 405 Clyde Avenue
 Mountain View, CA 94043
 415-967-2365

Fax Copy To: 415-967-2785 (fax)

Oakland Office
 129 Filbert Street
 Oakland, CA 94607
 510-267-1970

510-267-1972 (fax)

Project Name: Washington Avenue

Job Number: 1124-2A

Report To: Peter Langtry

Sampler (print): John McCain

Sampler (signature): John McCain

QC Requirements:

Level A (standard) Level B Level C Level D

Turnaround Requirements

10 working days

5 working days

3 working days

48 hours

24 hours

2-3 hours (RUSH)

ANALYSES REQUESTED

Organochlorine Pesticides (GC/MS)

Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.	Remarks
Lot 1 → Lot 4	10-27-98		soi	1	E19314	X
Lot 5 → Lot 8					E19315	X
Lot 9 → Lot 12					E19316	X
Lot 13 → Lot 16					E19317	X
Lot 17 → Lot 20					E19318	X
Lot 21 → Lot 24					E19319	X
Lot 25, Lot 26, Lot 27, Lot 68	10-27-98				E19320	X
Lot 44, Lot 45, Lot 54, Lot 57	10-28-98				E19321	X
Lot 46 → Lot 49	10-28-98				E19322	X
Lot 50 → Lot 53					E19323	X
Lot 55, Lot 56, Lot 58, Lot 59	10-27-98				E19324	X
Lot 60 → Lot 63	10-27-98				E19325	X
Lot 64 → Lot 67					E19326	X
Lot 69 → Lot 72					E19327	X

RUSH

Relinquished By: John McCain Date: 10-28-98 Time: 11:20

Relinquished By: F Jimenez Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

Received By: F JIMENEZ Date: 10-28-98 Time: 11:20 PM initials

Received By: _____ Date: _____ Time: _____

Lab of Record: ENTECH Temperature

Received by Lab: VTRACO Date: 10/28/98 Time: 11:20 Chilled

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

2/2

Send Results To: Mountain View Office
 405-Clyde Avenue
 Mountain View, CA 94043
 415-967-2365

Fax Copy To: 415-967-2785 (fax)

Oakland Office
 129 Filbert Street
 Oakland, CA 94607
 510-267-1970
 510-267-1972 (fax)

Project Name: Washington Avenue

Job Number: 1124-2A

Report To: Peter Lavatry

Sampler (print): John McCain

Sampler (signature): John McCain

QC Requirements:

Level A (standard) Level B Level C Level D

Turnaround Requirements

10 working days

5 working days

3 working days

48 hours

24 hours

2-3 hours (RUSH)

ANALYSIS REQUESTED

Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.	Remarks
Lot 21 → Lot 24	10-27-98		Soil	1	E19328	<p><i>Organochlorine Pesticides (EPA 821)</i></p> <p><i>Cancel</i></p>
Lot 17 → Lot 20					E19329	
Lot 13 → Lot 16					E19330	
Lot 9 → Lot 12					E19331	
Lot 5 → Lot 8					E19332	
Lot 1 → Lot 4					E19333	
Lot 73 → Lot 76			Soil	1	E19328	

RUSH

Relinquished By: John McCain Date: 10-28-98 Time: 11:20

Relinquished By: F Jimenez Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

Received By: F JIMENEZ Date: 10/28/98 Time: 11:20 PM initials

Received By: _____ Date: _____ Time: _____

Lab of Record: ENTECH

Received by Lab: VRAZO Date: 10/28/98 Time: 12:25pm Temperature chilled

Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

October 26, 1998

Peter Langtry
Lowney Associates
129 Filbert St.
Oakland, CA 94607

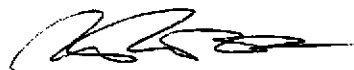
Subject: 4 Soil Samples
Lab #'s: E18735 through E18738
Project Name: 15550 Washington Avenue
Project Number: 1124-2A
Method(s): EPA 8080 - Pesticides
Subcontract Lab: Acculabs, Inc.

Dear Peter Langtry,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2224). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,



Michelle L. Anderson
Lab Director



Acculabs Inc.

Formerly West Laboratory

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19178

October 26, 1998

Michelle Anderson
Entech Analytical Labs, Inc.
525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

Subject : 4 Soil Samples
Project Name : Lowney Associates
Project Number :

Dear Ms. Anderson,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Acculabs - Davis is certified by the State of Arizona (AZ0583) and the State of California (# 1346). If you have any questions regarding procedures or results, please call me at 530-757-0920.

Sincerely,

Tom Kwoka



Acculabs Inc.

Formerly West Laboratory

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19178
October 26, 1998

Sample Name : E18735 (LOT 36,0-1/2)

Project Name : Lowney Associates

Project Number :

Sample Date : 10/14/98

Date Extracted : 10/22/98

Extr. Method : EPA 3550

QC Batch : PS981004

Date Analyzed : 10/23/98

Date Received : 10/20/98

Dilution : 1:10

Sample Matrix : Soil

Lab Number : 19178-01

Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.050	< 0.050	mg/Kg
gamma-BHC	0.050	< 0.050	mg/Kg
beta-BHC	0.050	< 0.050	mg/Kg
Heptachlor	0.050	< 0.050	mg/Kg
delta-BHC	0.050	< 0.050	mg/Kg
Aldrin	0.050	< 0.050	mg/Kg
Heptachlor Epoxide	0.050	< 0.050	mg/Kg
gamma-Chlordane	0.050	< 0.050	mg/Kg
Endosulfan 1	0.050	< 0.050	mg/Kg
alpha-Chlordane	0.050	< 0.050	mg/Kg
Dieldrin	0.10	0.14	mg/Kg
DDE	0.10	1.0	mg/Kg
Endrin	0.10	< 0.10	mg/Kg
Endosulfan 2	0.10	< 0.10	mg/Kg
DDD	0.10	< 0.10	mg/Kg
Endrin Aldehyde	0.10	< 0.10	mg/Kg
DDT	0.10	0.93	mg/Kg
Endosulfan Sulfate	0.10	< 0.10	mg/Kg
Methoxychlor	0.50	< 0.50	mg/Kg
Chlordane Technical	1.0	< 1.0	mg/Kg
Toxaphene	2.0	< 2.0	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	84	% Recovery
Decachlorobiphenyl (sur)	(54-166)	100	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By :

Tom Kwoka



Acculabs Inc.

Formerly West Laboratory

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19178
October 26, 1998

Sample Name : **E18736 (LOT 37,0-1/2)**

Project Name : Lowney Associates

Project Number :

Sample Date : 10/14/98

Date Extracted : 10/22/98

Extr. Method : EPA 3550

QC Batch : PS981004

Date Analyzed : 10/22/98

Date Received : 10/20/98

Dilution : 1:1

Sample Matrix : Soil

Lab Number : 19178-02

Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.0050	<0.0050	mg/Kg
gamma-BHC	0.0050	<0.0050	mg/Kg
beta-BHC	0.0050	<0.0050	mg/Kg
Heptachlor	0.0050	<0.0050	mg/Kg
delta-BHC	0.0050	<0.0050	mg/Kg
Aldrin	0.0050	<0.0050	mg/Kg
Heptachlor Epoxide	0.0050	<0.0050	mg/Kg
gamma-Chlordane	0.0050	<0.0050	mg/Kg
Endosulfan 1	0.0050	<0.0050	mg/Kg
alpha-Chlordane	0.0050	0.0052	mg/Kg
Dieldrin	0.010	<0.010	mg/Kg
DDE	0.010	0.096	mg/Kg
Endrin	0.010	<0.010	mg/Kg
Endosulfan 2	0.010	<0.010	mg/Kg
DDD	0.010	<0.010	mg/Kg
Endrin Aldehyde	0.010	<0.010	mg/Kg
DDT	0.010	0.054	mg/Kg
Endosulfan Sulfate	0.010	<0.010	mg/Kg
Methoxychlor	0.050	<0.050	mg/Kg
Chlordane Technical	0.10	<0.10	mg/Kg
Toxaphene	0.20	<0.20	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	90	% Recovery
Decachlorobiphenyl (sur)	(54-166)	105	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By :


Tom Kwoka



Acculabs Inc.

Formerly West Laboratory

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19178
October 26, 1998

Sample Name : **E18737 (LOT 38,0-1/2)**

Project Name : Lowney Associates

Project Number :

Sample Date : 10/14/98

Date Extracted : 10/22/98

Extr. Method : EPA 3550

QC Batch : PS981004

Date Analyzed : 10/22/98

Date Received : 10/20/98

Dilution : 1:1

Sample Matrix : Soil

Lab Number : 19178-03

Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.0050	<0.0050	mg/Kg
gamma-BHC	0.0050	<0.0050	mg/Kg
beta-BHC	0.0050	<0.0050	mg/Kg
Heptachlor	0.0050	<0.0050	mg/Kg
delta-BHC	0.0050	<0.0050	mg/Kg
Aldrin	0.0050	<0.0050	mg/Kg
Heptachlor Epoxide	0.0050	<0.0050	mg/Kg
gamma-Chlordane	0.0050	<0.0050	mg/Kg
Endosulfan 1	0.0050	<0.0050	mg/Kg
alpha-Chlordane	0.0050	<0.0050	mg/Kg
Dieldrin	0.010	<0.010	mg/Kg
DDE	0.010	0.042	mg/Kg
Endrin	0.010	<0.010	mg/Kg
Endosulfan 2	0.010	<0.010	mg/Kg
DDD	0.010	<0.010	mg/Kg
Endrin Aldehyde	0.010	<0.010	mg/Kg
DDT	0.010	0.035	mg/Kg
Endosulfan Sulfate	0.010	<0.010	mg/Kg
Methoxychlor	0.050	<0.050	mg/Kg
Chlordane Technical	0.10	<0.10	mg/Kg
Toxaphene	0.20	<0.20	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	92	% Recovery
Decachlorobiphenyl (sur)	(54-166)	97	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By : Tom Kwoka



Acculabs Inc.

Formerly West Laboratory

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19178

October 26, 1998

Sample Name : **E18738 (LOT 39,0-1/2)**

Project Name : Lowney Associates

Project Number :

Sample Date : 10/14/98

Date Extracted : 10/22/98

Extr. Method : EPA 3550

QC Batch : PS981004

Date Analyzed : 10/23/98

Date Received : 10/20/98

Dilution : 1:10

Sample Matrix : Soil

Lab Number : 19178-04

Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.050	< 0.050	mg/Kg
gamma-BHC	0.050	< 0.050	mg/Kg
beta-BHC	0.050	< 0.050	mg/Kg
Heptachlor	0.050	< 0.050	mg/Kg
delta-BHC	0.050	< 0.050	mg/Kg
Aldrin	0.050	< 0.050	mg/Kg
Heptachlor Epoxide	0.050	< 0.050	mg/Kg
gamma-Chlordane	0.050	0.071	mg/Kg
Endosulfan 1	0.050	< 0.050	mg/Kg
alpha-Chlordane	0.050	0.072	mg/Kg
Dieldrin	0.10	< 0.10	mg/Kg
DDE	0.10	1.2	mg/Kg
Endrin	0.10	< 0.10	mg/Kg
Endosulfan 2	0.10	< 0.10	mg/Kg
DDD	0.10	< 0.10	mg/Kg
Endrin Aldehyde	0.10	< 0.10	mg/Kg
DDT	0.10	1.1	mg/Kg
Endosulfan Sulfate	0.10	< 0.10	mg/Kg
Methoxychlor	0.50	< 0.50	mg/Kg
Chlordane Technical	1.0	<1.0	mg/Kg
Toxaphene	2.0	<2.0	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	97	% Recovery
Decachlorobiphenyl (sur)	(54-166)	110	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By :


Tom Kwoka

Acculabs Inc.

October 26, 1998

QC Report
Pesticides/PCB by EPA 8081A/8082

QC Batch PS981004

Matrix: Soil

Method Blank

Parameter	MRL (mg/Kg)	Measured Value (mg/Kg)
Aldrin	(.0050)	<.0050
alpha-BHC	(.0050)	<.0050
beta-BHC	(.0050)	<.0050
delta-BHC	(.0050)	<.0050
gamma-BHC	(.0050)	<.0050
Chlordane Technical	(0.10)	<0.10
gamma-Chlordane	(.0050)	<.0050
alpha-Chlordane	(.0050)	<.0050
4,4'-DDD	(0.010)	<0.010
4,4'-DDE	(0.010)	<0.010
4,4'-DDT	(0.010)	<0.010
Dieldrin	(0.010)	<0.010
Endosulfan 1	(.0050)	<.0050
Endosulfan 2	(0.010)	<0.010
Endosulfan Sulfate	(0.010)	<0.010
Endrin	(0.010)	<0.010
Endrin Aldehyde	(0.010)	<0.010
Heptachlor	(.0050)	<.0050
Heptachlor Epoxide	(.0050)	<.0050
Toxaphene	(0.20)	<0.20
PCB1016	(0.10)	<0.10
PCB1221	(0.10)	<0.10
PCB1232	(0.10)	<0.10
PCB1242	(0.10)	<0.10
PCB1248	(0.10)	<0.10
PCB1254	(0.10)	<0.10
PCB1260	(0.10)	<0.10



Tom Kwoka
Lab Director

Acculabs Inc.

October 26, 1998

QC Report
Pesticides/PCB by EPA 8081A/8082

QC Batch PS981004

Matrix: Soil

Spike and Spike Duplicate Results

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
gamma-BHC	88	87	1
Heptachlor	89	88	1
Aldrin	86	84	2
Dieldrin	NC	NC	NC
Endrin	NC	NC	NC
4,4'-DDT	NC	NC	NC

NC: Not Calculated due to interference from toxaphene. LCS is within acceptable limits. Spiked sample ID 19178-01.

Laboratory Control Spike

Parameter	Laboratory Control Spike-(%Rec)
gamma-BHC	80
Heptachlor	80
Aldrin	77
Dieldrin	83
Endrin	83
4,4'-DDT	74
PCB 1016	77
PCB 1260	82



Tom Kwoka
Lab Director

Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Subcontract Chain of Custody

19178

Subcontract Lab: ACCULABS-DAVIS		Date Sent: 10/19/98	Project Name: LOWNEY ASSOCIATES		Due Date: 10/26/98	
Sample ID and Source	Matrix	Required Analysis	Date Taken	Time Taken	Containers	Pres
E18735(LOT 36, 0-1/2')	SOIL	8080 PESTICIDES	10/14/98		4 OZ JAR	01
E18736(LOT 37, 0-1/2')	SOIL	8080 PESTICIDES	10/14/98		4 OZ JAR	02
E18737(LOT 38, 0-1/2')	SOIL	8080 PESTICIDES	10/14/98		4 OZ JAR	03
E18738(LOT 39, 0-1/2')	SOIL	8080 PESTICIDES	10/14/98		4 OZ JAR	04

Relinquished By: <i>VTRAW via</i>	Received By: <i>Col Overnight</i>	Date: <i>10/19/98</i>	Time: <i>6pm</i>
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By: <i>St Wood</i>	Date: <i>10/20/98</i>	Time: <i>9:25</i>

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

1/2

Send Results To: Mountain View Office
 405 Clyde Avenue
 Mountain View, CA 94043
 415-967-2365

Fax Copy To: 415-967-2785 (fax)

Oakland Office
 129 Filbert Street
 Oakland, CA 94607
 510-267-1970
 510-267-1972 (fax)

Project Name: 15550 Washington Avenue

Job Number: 1124-2A

Report To: Peter Langtry

Sampler (print): John McCain

Sampler (signature): John McCain

QC Requirements:

Level A (standard) Level B Level C Level D

Turnaround Requirements

10 working days

5 working days

3 working days

48 hours

24 hours

2-3 hours (RUSH)

ANALYSES REQUESTED

Organochlorine Pesticides (8080)

8080 Pesticides Added per Peter on Sat 10/14/98

Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.	Remarks
pt 28 (0-1/2')	10-14-98		soil	1		
pt 29 (0-1/2')					E18543	composite
pt 30 (0-1/2')						
pt 31 (0-1/2')						
pt 32 (0-1/2')						composite
pt 33 (0-1/2')					E18544	
pt 34 (0-1/2')						
pt 35 (0-1/2')						composite
pt 36 (0-1/2')						
pt 37 (0-1/2')					E18545	
pt 38 (0-1/2')						composite with hot 42
pt 39 (0-1/2')						
pt 40 (0-1/2')						
pt 41 (0-1/2')					E18546	and hot 43

Relinquished By: John McCain Date: 10-14-98 Time: 1:58p

Relinquished By: Babak Minasazi Date: Time:

Relinquished By: Date: Time:

Received By: Babak Minasazi Date: 10-14-98 Time: 1:58p PM initials

Received By: Date: Time:

Lab of Record: ENTUCH

Received by Lab: usra-50 Date: 10/14/98 Time: 3:20p Temperature

Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

November 6, 1998

Peter Langtry
Lowney Associates
129 Filbert St.
Oakland, CA 94607

Subject: 24 Soil Samples
Lab #'s: E19646-E19669
Project Name: Washington Avenue
Project Number: 1124-2A
Method(s): EPA 8080 - Pesticides
Subcontract Lab: Advanced Technology Laboratories

Dear Peter Langtry,

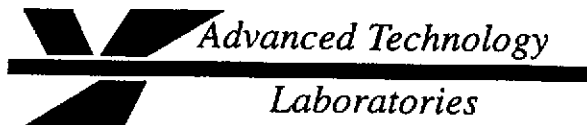
Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2224). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,



Michelle L. Anderson
Lab Director



November 6, 1998

ELAP No.: 1838

Entech Analytical Labs, Inc.
525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

ATTN: Ms. Michelle Anderson

Client's Project: Lowney Associates
Lab No.: 30373-001/024

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read 'Cheryl De Los Reyes', with a stylized flourish at the end.

Cheryl De Los Reyes
Technical Operations Manager
CDR/ms

Enclosures

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

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited.

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT


Lab No.: 30373-001
Sample I.D.: E19646 (Lot 1)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	36	Endosulfan Sulfate	4	ND
4,4'-DDT	4	38	Endrin	4	ND
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-002
Sample I.D.: E19647 (Lot 2)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	57	Endosulfan Sulfate	4	ND
4,4'-DDT	4	69	Endrin	4	72
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	6.0	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	4.5	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: _____

11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-003
Sample I.D.: E19648 (Lot 3)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	5.3*	Endosulfan II	4	ND
4,4'-DDE	4	82	Endosulfan Sulfate	4	ND
4,4'-DDT	4	76	Endrin	4	7.3
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

* = Unable to confirm within 30%.
MDL = Method Detection Limit
ND = Not Detected (Below DLR).
DLR = MDL X Dilution Factor
NA = Not Analyzed

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: _____

11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-004
Sample I.D.: E19649 (Lot 4)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	68	Endosulfan Sulfate	4	ND
4,4'-DDT	4	56	Endrin	4	21
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	5.6	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	4.1	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____



Lee Ingvaldson
Department Supervisor

Date: _____

11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-005
Sample I.D.: E19650 (Lot 9)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	12#	Endosulfan II	4	11
4,4'-DDE	20	350*	Endosulfan Sulfate	4	ND
4,4'-DDT	20	390*	Endrin	4	19
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	21	Toxaphene	170	ND
Endosulfan I	2	ND			

= Unable to confirm within 30%.
* = Dilution Factor is 5.

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: _____

11/04/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson


Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-006
Sample I.D.: E19651 (Lot 10)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	68	Endosulfan Sulfate	4	ND
4,4'-DDT	4	70	Endrin	4	6.1
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	14	Chlordane	17	ND
Dieldrin	4	4.1	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: 
Lee Ingvaldson
Department Supervisor

Date: 11/12/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-007
Sample I.D.: E19652 (Lot 11)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	25	Endosulfan Sulfate	4	ND
4,4'-DDT	4	27	Endrin	4	4.9
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____

Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-008
Sample I.D.: E19653 (Lot 12)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

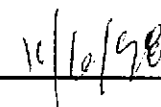
ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	18	Endosulfan Sulfate	4	ND
4,4'-DDT	4	22	Endrin	4	ND
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: _____


11/10/98

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

Client: Entech Analytical Labs, Inc.
 Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
 Date Sampled: 10/27/98
 Date Received: 11/04/98
 Matrix: Soil
 Units: ug/kg
 Analyst Initials: DT

Lab No.: 30373-009
 Sample I.D.: E19654 (Lot 17)
 QC Batch No.: G988080S357
 Extraction Date: 11/04/98
 Date Analyzed: 11/04/98
 Extraction Method: EPA 3550
 Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	81	Endosulfan Sulfate	4	ND
4,4'-DDT	4	74	Endrin	4	14
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	6.3	Toxaphene	170	ND
Endosulfan I	2	ND			

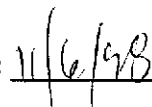
MDL = Method Detection Limit
 ND = Not Detected (Below DLR).
 DLR = MDL X Dilution Factor
 NA = Not Analyzed

Reviewed/Approved By: _____



Lee Ingvaldson
 Department Supervisor

Date: _____



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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT


Lab No.: 30373-010
Sample I.D.: E19655 (Lot 18)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	41	Endosulfan Sulfate	4	ND
4,4'-DDT	4	47	Endrin	4	9.7
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	2.3	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-011
Sample I.D.: E19656 (Lot 19)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

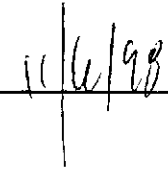
ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	54	Endosulfan Sulfate	4	ND
4,4'-DDT	4	60	Endrin	4	62
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	4.5	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: _____



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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-012
Sample I.D.: E19657 (Lot 20)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	61	Endosulfan Sulfate	4	ND
4,4'-DDT	4	61	Endrin	4	11
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	2.2	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-013
Sample I.D.: E19658 (Lot 25)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	78	Endosulfan Sulfate	4	ND
4,4'-DDT	4	80	Endrin	4	11
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	11	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-014
Sample I.D.: E19659 (Lot 26)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	76	Endosulfan Sulfate	4	ND
4,4'-DDT	4	90	Endrin	40	156*
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	3.4	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	5.7	Toxaphene	170	ND
Endosulfan I	2	ND			

* = Dilution Factor is 10.

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: _____

11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: 30373-015
Sample I.D.: E19660 (Lot 27)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	6.5	Endosulfan II	4	ND
4,4'-DDE	40	221*	Endosulfan Sulfate	4	ND
4,4'-DDT	40	229*	Endrin	4	14
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	14	Toxaphene	170	ND
Endosulfan I	2	ND			

* = Dilution Factor is 10.

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/27/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

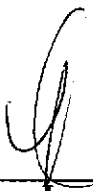
Lab No.: 30373-016
Sample I.D.: E19661 (Lot 68)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	4.2#	Endosulfan II	4	ND
4,4'-DDE	4	70	Endosulfan Sulfate	4	ND
4,4'-DDT	4	80	Endrin	4	13
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	4.7	Toxaphene	170	ND
Endosulfan I	2	ND			

= Unable to confirm within 30%.

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

Reviewed/Approved By: 
Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/28/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT
Date Amended: 11/06/98

Lab No.: 30373-017
Sample I.D.: E19662 (Lot 44)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	40	140*	Endosulfan Sulfate	4	ND
4,4'-DDT	40	167*	Endrin	4	27
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	2.8	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	9.2	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	13	Toxaphene	170	ND
Endosulfan I	2	ND			

* = Dilution Factor is 10.

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/28/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT
Date Amended: 11/06/98

Lab No.: 30373-018
Sample I.D.: E19663 (Lot 45)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	81	Endosulfan Sulfate	4	ND
4,4'-DDT	4	86	Endrin	4	14
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	22	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	15	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	7.5	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: _____

11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/28/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT
Date Amended: 11/06/98

Lab No.: 30373-019
Sample I.D.: E19664 (Lot 54)
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	66	Endosulfan Sulfate	4	ND
4,4'-DDT	4	65	Endrin	4	48
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	4.8	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	5.3	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/28/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT
Date Amended: 11/06/98

Lab No.: 30373-021
Sample I.D.: E19666 (Lot 46)
QC Batch No.: G988080S358
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	40	121*	Endosulfan Sulfate	4	ND
4,4'-DDT	40	92*	Endrin	4	22
Aldrin	2	18	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	3.7	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	56	Toxaphene	170	ND
Endosulfan I	2	ND			

* = Dilution Factor is 10.

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/28/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT
Date Amended: 11/06/98

Lab No.: 30373-022
Sample I.D.: E19667 (Lot 47)
QC Batch No.: G988080S358
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	26	Endosulfan Sulfate	4	ND
4,4'-DDT	4	25	Endrin	4	66
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	5.6	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	14	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____

Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: 10/28/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT
Date Amended: 11/06/98


Lab No.: 30373-023
Sample I.D.: E19668 (Lot 48)
QC Batch No.: G988080S358
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	33	Endosulfan Sulfate	4	ND
4,4'-DDT	4	29	Endrin	4	9.2
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson


Client's Project: Lowney Associates
Date Sampled: 10/28/98
Date Received: 11/04/98
Matrix: Soil
Units: ug/kg
Analyst Initials: DT
Date Amended: 11/06/98

Lab No.: 30373-024
Sample I.D.: E19669 (Lot 49)
QC Batch No.: G988080S358
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	77	Endosulfan Sulfate	4	ND
4,4'-DDT	4	67	Endrin	4	19
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	6.3	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: 
Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Client: Entech Analytical Labs, Inc.
Attn: Ms. Michelle Anderson

Client's Project: Lowney Associates
Date Sampled: -----
Date Received: -----
Matrix: Soil
Units: ug/kg
Analyst Initials: DT

Lab No.: Method Blank
Sample I.D.: -----
QC Batch No.: G988080S357
Extraction Date: 11/04/98
Date Analyzed: 11/04/98
Extraction Method: EPA 3550
Dilution Factor: 1

EPA Method 8080

ANALYTE	DLR	Results	ANALYTE	DLR	Results
4,4'-DDD	4	ND	Endosulfan II	4	ND
4,4'-DDE	4	ND	Endosulfan Sulfate	4	ND
4,4'-DDT	4	ND	Endrin	4	ND
Aldrin	2	ND	Endrin Aldehyde	4	ND
Alpha-BHC	2	ND	Heptachlor	2	ND
Beta-BHC	2	ND	Heptachlor Epoxide	2	ND
Delta-BHC	2	ND	Methoxychlor	17	ND
Gamma-BHC (Lindane)	2	ND	Chlordane	17	ND
Dieldrin	4	ND	Toxaphene	170	ND
Endosulfan I	2	ND			

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

Reviewed/Approved By: _____


Lee Ingvaldson
Department Supervisor

Date: 11/6/98

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

Spike Recovery and RPD Summary Report - SOIL (ug/kg)

Method : C:\HPCHEM\1\METHODS\PCBPEST1.M (Chemstation Integrator)
 Title : 8081 Pesticides Advanced Technology Laboratory
 Last Update : Wed Sep 30 12:48:09 1998
 Response via : Initial Calibration

Non-Spiked Sample: GB1104A.D

Spike
Sample

Spike
Duplicate Sample

File ID : GMS1104A.D
 Sample : Blank MS E:11/04/98
 Acq Time: 4 Nov 1998 12:32 pm

GMD1104A.D
 Blank MSD E:11/04/98
 4 Nov 1998 1:08 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD % Rec
gamma-BHC	0.0	40	28	29	71	72	1	9 50-127
Heptachlor	0.0	40	28	28	69	70	1	12 35-136
Aldrin	0.0	40	35	35	87	86	0	15 47-143
Dieldrin	0.0	80	64	65	80	81	1	8 54-134
Endrin	0.0	80	73	72	91	91	0	16 61-138
4,4'-DDT	0.0	80	59	60	74	74	1	22 15-155

QC Batch #:G988080S357

Reviewed and Approved by: _____



Lee Ingvaldson
Organics Supervisor

Date: _____

11/6/98

Spike Recovery and RPD Summary Report - SOIL (ug/kg)

Method : C:\HPCHEM\1\METHODS\PCBPEST1.M (Chemstation Integrator)
 Title : 8081 Pesticides Advanced Technology Laboratory
 Last Update : Wed Sep 30 12:48:09 1998
 Response via : Initial Calibration

Non-Spiked Sample: GB1104B.D

Spike
Sample

Spike
Duplicate Sample

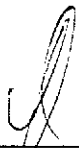
File ID : GMS1104B.D
 Sample : Blank MS E:11/04/98
 Acq Time: 4 Nov 1998 2:19 pm

GMD1104B.D
 Blank MSD E:11/04/98
 4 Nov 1998 2:55 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC RPD	Limits % Rec
gamma-BHC	0.0	40	29	29	72	72	0	9	50-127
Heptachlor	0.0	40	28	28	71	71	1	12	35-136
Aldrin	0.0	40	36	36	90	90	0	15	47-143
Dieldrin	0.0	80	65	66	82	83	1	8	54-134
Endrin	0.0	80	73	73	91	92	1	16	61-138
4,4'-DDT	0.0	80	61	61	76	76	0	22	15-155

QC Batch #:G988080S358

Reviewed and approved by: _____



Lee Ingvaldson
Organics Supervisor

Date: _____

11/6/98

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Subcontract Chain of Custody

BY 10 AM

Subcontract Lab:		Date Sent:	Project Name:		Due Date:	
ATL		11/03/98	Lowney Associates		11/06/98	
Sample ID and Source	Matrix	Required Analysis	Date Taken	Time Taken	Containers	Pres?
E19646 (Lot 1)	SOIL	8030 PESTICIDES	10/27/98		4 bags jm	
E19647 (Lot 2)						
E19648 (Lot 3)						
E19649 (Lot 4)						
E19650 (Lot 9)						
E19651 (Lot 10)						
E19652 (Lot 11)						
E19653 (Lot 12)						
E19654 (Lot 17)						
E19655 (Lot 18)						
E19656 (Lot 19)						
E19657 (Lot 20)						
E19658 (Lot 25)						
E19659 (Lot 26)						
E19660 (Lot 27)						
E19661 (Lot 68)						
E19662 (Lot 44)			10/28/98			
E19663 (Lot 45)						

Relinquished By:	Received By:	Date:	Time:
WRAW via Cal Overnight		11/3/98	6pm
Relinquished By:	Received By:	Date:	Time:
	Diane Galvan	11-4-98	0900
Relinquished By:	Received By:	Date:	Time:

Notes: _____

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Subcontract Chain of Custody

BY 10 AM

Subcontract Lab:		Date Sent:	Project Name:		Due Date:	
ATL		11/03/98	Lowney Associates		11/06/98	
Sample ID and Source	Matrix	Required Analysis	Date Taken	Time Taken	Containers	Pres?
E19664 (Lot 54)	SOIL	8080 PESTICIDES	10/28/98		4 bags	
E19665 (Lot 57)	↓	↓	↓		↓	
E19666 (Lot 46)	↓	↓	↓		↓	
E19667 (Lot 47)	↓	↓	↓		↓	
E19668 (Lot 48)	↓	↓	↓		↓	
E19669 (Lot 49)	↓	↓	↓		↓	

Relinquished By:	Received By:	Date:	Time:
VIAIR via Cal	Overnight	11/3/98	6 pm
Relinquished By:	Received By: Diane Mahan	Date: 11-4-98	Time: 0900
Relinquished By:	Received By:	Date:	Time:

Notes: _____

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone: (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

Chain of Custody/Analysis Work Order

Client: Lowney Assoc
 Address: 129 Filbert Street
Oakland, CA 94607
 Contact: _____
 Telephone #: 510-267-1970
 Date Received: 1
 Turn Around: 3 DAY TAT

Washington Avenue
 Project ID: JOB # 1124-2A

Purchase Order #: _____

Sampler/Company: _____	Telephone #: _____
Special Instructions/Comments <i>These samples previously run at ⁴¹¹composites Refer to E19314, 16, 18, 20, 21 & 22</i>	

LAB USE ONLY

Samples arrived chilled and intact:

Yes No

Notes: _____

Sample Information								Requested Analysis								
Lab #	Sample ID	Grab/ Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container									
E19646	LOT 1		Soil	10/27/98				<i>rest of 2080</i>								
E19647	LOT 2		↓	↓												
E19648	LOT 3		↓	↓												
E19649	LOT 4		↓	↓												
E19650	LOT 9		↓	↓												
E19651	LOT 10		↓	↓												
E19652	LOT 11		↓	↓												
E19653	LOT 12		↓	↓												

Relinq. By: _____	Received By: <u>via World Courier VTRA-U</u>	Date: <u>10/28/98</u>	Time: <u>12:25 pm</u>
Relinq. By: _____	Received By: _____	Date: _____	Time: _____
Relinq. By: _____	Received By: _____	Date: _____	Time: _____

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone: (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

Chain of Custody/Analysis Work Order

Job # 1124-2A

Client: Lowney

Project ID: _____

Address: _____

Purchase Order #: _____

Contact: _____

Sampler/Company: _____ Telephone #: _____

Telephone #: _____

Special Instructions/Comments
*These samples previously run
as 4:1 composite
refer to E19314, 16, 18, 20, 21 & 22*

Date Received: _____

Turn Around: _____

LAB USE ONLY

Samples arrived chilled and intact:

Yes _____ No _____

Notes: _____

Sample Information								Requested Analysis								
Lab #	Sample ID	Grab/ Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container									
E19654	LOT 17		Sail	10/27/98				2508 8008 ↓								
E19655	LOT 18		↓	↓												
E19656	LOT 19															
E19657	LOT 20			↓												
E19658	LOT 21			10/27/98												
E19659	LOT 26			↓												
E19660	LOT 27			↓												
E19661	LOT 68		✓	↓												
Relinq. By:				Received By: <u>VIA World Courier VRAVO</u>				Date: <u>10/28/98</u>				Time: <u>12:25 pm</u>				
Relinq. By:				Received By:				Date:				Time:				
Relinq. By:				Received By:				Date:				Time:				

3 of 3

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • Telephone: (408) 735-1550 (800) 287-1799 • Fax: (408) 735-1554

Chain of Custody/Analysis Work Order

Job # 1124-2A

Client: Lowney
 Address: _____

 Contact: _____
 Telephone #: _____
 Date Received: _____
 Turn Around: _____

Project ID: _____

Purchase Order #: _____

Sampler/Company: _____	Telephone #: _____
Special Instructions/Comments <i>These sampler previously run as 4:1 composites refer to E19314, 16, 18, 20, 21 + 22</i>	

LAB USE ONLY	
Samples arrived chilled and intact:	
Yes	No
Notes: _____	

Sample Information								Requested Analysis								
Lab #	Sample ID	Grab/Composite	Matrix	Date Collected	Time Collected	Pres.	Sample Container									
E19662	LOT 44		Soil	10/28/98				<i>2928 1584</i> ↓								
E19663	LOT 45		↓	↓												
E19664	LOT 54															
E19665	LOT 57															
E19666	LOT 46															
E19667	LOT 47															
E19668	LOT 48															
E19669	LOT 49															
Relinq. By:				Received By: <i>Min World Courier VTKAZO</i>				Date: <i>10/28/98</i>				Time: <i>12:25 pm</i>				
Relinq. By:				Received By:				Date:				Time:				
Relinq. By:				Received By:				Date:				Time:				

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

1/2

Send Results To:

Mountain View Office
405 Clyde Avenue
Mountain View, CA 94043
415-967-2345
 415-967-2785 (fax)

Oakland Office
179 Pilbert Street
Oakland, CA 94607
510-267-1970
 510-267-1972 (fax)

Fax Copy To:

Project Name: Washington Avenue

Job Number: 1124-2A

Report To: Peter Langley

Sampler (Print): John McCain

Sampler (Signature): John McCain

QC Requirements:

Level A (Standard) Level B Level C Level D

- Turnaround Requirements
- 10 working days
 - 5 working days
 - 3 working days
 - 48 hours
 - 24 hours
 - 2-3 hours (RUSH)

Sample I.D.	Date	Time	Sample Matrix	% of Cont.	Laboratory I.D.	Analysis Method	Analysis Individual	Remarks
Lot 1 → Lot 4	10-27-98		soil	1	E19314	X	X	E19646-49
Lot 5 → Lot 8					E19315	X		
Lot 9 → Lot 12					E19316	X	X	E19650-53
Lot 13 → Lot 16					E19317	X		
Lot 17 → Lot 20					E19318	X	X	E19654-57
Lot 21 → Lot 24					E19319	X		
Lot 25, Lot 26, Lot 27, Lot 28	10-27-98				E19320	X	X	E19658-61
Lot 44, Lot 45, Lot 51, Lot 52	10-28-98				E19321	X	X	E19662-65
Lot 46 → Lot 49	10-28-98				E19312	X	X	E19666-69
Lot 50 → Lot 53					E19322	X		RUSH
Lot 55, Lot 56, Lot 57, Lot 58	10-27-98				E19324	X		
Lot 60 → Lot 63	10-27-98				E19325	X		
Lot 64 → Lot 67					E19326	X		
Lot 67 → Lot 70					E19327	X		

Relinquished By: John McCain Date: 10-28-98 Time: 11:20

Relinquished By: F Jimenez Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

Received By: F Jimenez Date: 10-28-98 Time: 11:30

Received By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Lab of Record: ENTECH

Received by Lab: ENTECH Date: 10/28/98 Time: 11:30

Temperature: Chilled

11/02/98 17:00 TX/RX NO. 7878 P. 018

11/03/98 10:35 FAX 5109389359
11/02/1998 17:08 4887551554
ENTECH ANALYT LABS
LOWNEY ASSOC.
PAGE 18
002

Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

November 24, 1998

Peter Langtry
Lowney Associates
129 Filbert St.
Oakland, CA 94607

Subject: 3 Soil Samples
Lab #'s: E20830 - E20832
Project Name: Washington Avenue
Project Number: 1124-2A
Method(s): EPA 8080 - Pesticides
Subcontract Lab: Acculabs, Inc.

Dear Peter Langtry,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2224). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,



Michelle L. Anderson
Lab Director



Acculabs Inc.

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

Sample Log 19294
November 24, 1998

Michelle Anderson
Entech Analytical Labs, Inc.
525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

Subject : 3 Soil samples
Project Name : Lowney Associates
Project Number :

Dear Ms. Anderson,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

Acculabs - Davis is certified by the State of Arizona (AZ0583) and the State of California (# I-2330). If you have any questions regarding procedures or results, please call me at 530-757-0920.

Sincerely,

Tom Kwoka



Acculabs Inc.

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19294

November 24, 1998

Sample Name : E20830 (LOT 36)

Project Name : Lowney Associates

Project Number :

Sample Date : 11/19/98

Date Extracted : 11/20/98

Extr. Method : EPA 3550

QC Batch : PS981104

Date Analyzed : 11/20/98

Date Received : 11/20/98

Dilution : 1:1

Sample Matrix : Soil

Lab Number : 19294-01


Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.0050	<0.0050	mg/Kg
gamma-BHC	0.0050	<0.0050	mg/Kg
beta-BHC	0.0050	<0.0050	mg/Kg
Heptachlor	0.0050	<0.0050	mg/Kg
delta-BHC	0.0050	<0.0050	mg/Kg
Aldrin	0.0050	<0.0050	mg/Kg
Heptachlor Epoxide	0.0050	<0.0050	mg/Kg
gamma-Chlordane	0.0050	0.0085	mg/Kg
Endosulfan 1	0.0050	<0.0050	mg/Kg
alpha-Chlordane	0.0050	0.0061	mg/Kg
Dieldrin	0.010	0.016	mg/Kg
DDE	0.010	0.14	mg/Kg
Endrin	0.010	<0.010	mg/Kg
Endosulfan 2	0.010	<0.010	mg/Kg
DDD	0.010	<0.010	mg/Kg
Endrin Aldehyde	0.010	<0.010	mg/Kg
DDT	0.010	0.13	mg/Kg
Endosulfan Sulfate	0.010	<0.010	mg/Kg
Methoxychlor	0.050	<0.050	mg/Kg
Chlordane Technical	0.10	<0.10	mg/Kg
Toxaphene	0.20	0.30	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	90	% Recovery
Decachlorobiphenyl (sur)	(54-166)	89	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By :


Tom Kwoka



Acculabs Inc.

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19294
November 24, 1998

Sample Name : E20831 (LOT 39)

Project Name : Lowney Associates
Project Number :
Sample Date : 11/19/98
Date Extracted : 11/20/98
Extr. Method : EPA 3550
QC Batch : PS981104

Date Analyzed : 11/20/98
Date Received : 11/20/98
Dilution : 1:1
Sample Matrix : Soil
Lab Number : 19294-02


Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.0050	<0.0050	mg/Kg
gamma-BHC	0.0050	<0.0050	mg/Kg
beta-BHC	0.0050	<0.0050	mg/Kg
Heptachlor	0.0050	<0.0050	mg/Kg
delta-BHC	0.0050	<0.0050	mg/Kg
Aldrin	0.0050	<0.0050	mg/Kg
Heptachlor Epoxide	0.0050	<0.0050	mg/Kg
gamma-Chlordane	0.0050	0.0064	mg/Kg
Endosulfan 1	0.0050	<0.0050	mg/Kg
alpha-Chlordane	0.0050	<0.0050	mg/Kg
Dieldrin	0.010	0.013	mg/Kg
DDE	0.010	0.14	mg/Kg
Endrin	0.010	<0.010	mg/Kg
Endosulfan 2	0.010	<0.010	mg/Kg
DDD	0.010	<0.010	mg/Kg
Endrin Aldehyde	0.010	<0.010	mg/Kg
DDT	0.010	0.14	mg/Kg
Endosulfan Sulfate	0.010	<0.010	mg/Kg
Methoxychlor	0.050	<0.050	mg/Kg
Chlordane Technical	0.10	<0.10	mg/Kg
Toxaphene	0.20	0.28	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	92	% Recovery
Decachlorobiphenyl (sur)	(54-166)	93	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By :


Tom Kwoka



Acculabs Inc.

Davis

1046 Olive Drive, Suite 2, Davis CA 95616 ■ 530-757-0920 ■ Fax 753-6091

EPA 8081A

Sample Log 19294
November 24, 1998

Sample Name : E20832 (LOT 46)

Project Name : Lowney Associates
Project Number :
Sample Date : 11/19/98
Date Extracted : 11/20/98
Extr. Method : EPA 3550
QC Batch : PS981104

Date Analyzed : 11/20/98
Date Received : 11/20/98
Dilution : 1:1
Sample Matrix : Soil
Lab Number : 19294-03

Parameter	MRL	Measured Conc.	Units
alpha-BHC	0.0050	<0.0050	mg/Kg
gamma-BHC	0.0050	<0.0050	mg/Kg
beta-BHC	0.0050	<0.0050	mg/Kg
Heptachlor	0.0050	<0.0050	mg/Kg
delta-BHC	0.0050	<0.0050	mg/Kg
Aldrin	0.0050	<0.0050	mg/Kg
Heptachlor Epoxide	0.0050	<0.0050	mg/Kg
gamma-Chlordane	0.0050	0.0073	mg/Kg
Endosulfan 1	0.0050	<0.0050	mg/Kg
alpha-Chlordane	0.0050	<0.0050	mg/Kg
Dieldrin	0.010	0.018	mg/Kg
DDE	0.010	0.13	mg/Kg
Endrin	0.010	<0.010	mg/Kg
Endosulfan 2	0.010	<0.010	mg/Kg
DDD	0.010	<0.010	mg/Kg
Endrin Aldehyde	0.010	<0.010	mg/Kg
DDT	0.010	0.15	mg/Kg
Endosulfan Sulfate	0.010	<0.010	mg/Kg
Methoxychlor	0.050	<0.050	mg/Kg
Chlordane Technical	0.10	<0.10	mg/Kg
Toxaphene	0.20	0.31	mg/Kg
Tetrachloro-m-xylene (sur)	(60-138)	91	% Recovery
Decachlorobiphenyl (sur)	(54-166)	91	% Recovery

MRL = Method Reporting Limit

Conc. = Concentration

E = Concentration exceeded calibration range.

Approved By : Tom Kwoka

Acculabs Inc.

November 20, 1998

QC Report
Pesticides/PCB by EPA 8081A/8082

QC Batch PS981104

Matrix: Soil

Spike and Spike Duplicate Results

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
gamma-BHC	84	84	0
Heptachlor	83	84	1
Aldrin	79	79	0
Dieldrin	97	109	12
Endrin	91	99	8
4,4'-DDT	120	160	28

Spiked sample ID 19284-01.

Laboratory Control Spike

Parameter	Laboratory Control Spike-(%Rec)
gamma-BHC	86
Heptachlor	84
Aldrin	81
Dieldrin	87
Endrin	85
4,4'-DDT	78

mf

Tom Kwoka
Lab Director

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Subcontract Chain of Custody

19294

Subcontract Lab:		Date Sent:	Project Name:		Due Date:	
Acculabs- Davis		11/19/98	Lowney Associates		11/24/98	
Sample ID and Source	Matrix	Required Analysis	Date Taken	Time Taken	Containers	Pres?
E20830 (LOT 36)	Soil	8080 PESTICIDES	11/19/98		4 oz jar	
E20831 (LOT 39)						
E20832 (LOT 46)	↓	↓	↓		↓	

01
02
03

Relinquished By:	Received By:	Date:	Time:
<i>W. Strago via Cal Overnight</i>	<i>Cal Overnight</i>	<i>11/19/98</i>	<i>6pm</i>
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:
	<i>SD Wood</i>	<i>11/20/98</i>	<i>840</i>

Notes: _____

LOWNEY ASSOCIATES

CHAIN OF CUSTODY RECORD

Send Results To:

Mountain View Office
405 Clyde Avenue
Mountain View, CA 94043
415-967-2365

Oakland Office
129 Filbert Street
Oakland, CA 94607
510-267-1970
 510-267-1972 (fax)

Fax Copy To:

415-967-2785 (fax)

Project Name: <u>Washington Avenue</u>					Turnaround Requirements <input type="checkbox"/> 10 working days <input type="checkbox"/> 5 working days <input checked="" type="checkbox"/> 3 working days <input type="checkbox"/> 48 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 2-3 hours (RUSH)	ANALYSIS REQUESTED										
Job Number: <u>1124-2A</u>						Organochlorine Pesticides (8080)										
Report To: <u>Peter Langtry</u>																
Sampler (print): <u>John McCain</u>																
Sampler (signature): <u>[Signature]</u>																
QC Requirements: <input checked="" type="checkbox"/> Level A (standard) <input type="checkbox"/> Level B <input type="checkbox"/> Level C <input type="checkbox"/> Level D																
Sample I.D.	Date	Time	Sample Matrix	# of Cont.	Laboratory I.D.	Remarks										
Lot 36	11-19-98		Soil	1	820830	X										
Lot 39	↓		↓	↓	820831	X										
Lot 46	↓		↓	↓	820832	X										

Relinquished By: <u>[Signature]</u>	Date: <u>11-19-98</u> Time: <u>11:28am</u>	Received By: <u>PRABH</u>	Date: <u>11/19</u> Time: <u>11:30</u>	PM initials
Relinquished By: <u>PRABH</u>	Date: <u>11/19/98</u> Time: <u>1345</u>	Received By:	Date: _____ Time: _____	
Relinquished By:	Date: _____ Time: _____	Lab of Record:		Temperature
		Received by Lab: <u>[Signature]</u>	Date: <u>11/19/98</u> Time: <u>13:45</u>	