

February 3, 1999

Mr. Robert Stevens  
Environmental Planner  
Flood Control District of Maricopa County  
2801 West Durango  
Phoenix, Arizona 85009

15-16935/004

**BROWN AND  
CALDWELL**

Environmental Engineering & Consulting

Subject: Results of Additional Drilling and Analysis at the  
Maricopa County Proposed South Basin Site  
Guadalupe, Arizona  
Contract FCD 97-29

Dear Mr. Stevens:

This letter report documents the tasks performed and results of the additional subsurface soil investigation conducted at the Flood Control District of Maricopa County (FCDMC) proposed South Basin, "the Site," located approximately 0.5 miles south of Guadalupe Road and 0.5 miles east of Priest Drive (along the west side of the Highline Canal) in Guadalupe, Arizona. The Site is currently owned by the Salt River Project (SRP). The purpose of this additional investigation was to further define the lateral extent of observed subsurface toxaphene contamination. The work documented in this letter report was conducted in general accordance with the scope of work outlined in the Brown and Caldwell proposal, dated November 17, 1998. Any deviations from the approved scope of work were the result of on-site observations and were discussed with and approved by the on-site FCDMC representative.

### ***Previous Subsurface Soil Investigation***

Based on prior environmental investigations conducted at the Site and adjacent property, toxaphene concentrations in excess of Arizona Department of Environmental Quality (ADEQ) Residential Soil Remediation Levels (RSRLs) are present at approximately 9 to 12 feet below ground surface (bgs). Previous excavation activities to remove the toxaphene-contaminated soil at the former Sanders Aviation Site to the south also extended several feet on the SRP property. However, this excavation work reportedly did not remove all the toxaphene-contaminated soil north of the former Sanders pond location.

Results of recent on-site core drilling conducted by Brown and Caldwell revealed toxaphene contamination between the depths of 9 to 12 feet bgs. The toxaphene-contaminated layer was observed to have a distinct gray to grayish-brown color. Concentrations of toxaphene in this layer ranged from 1.3 to 19 milligrams per kilogram (mg/Kg) with concentrations generally decreasing with distance from the southern property boundary.

### *Scope of Work*

Brown and Caldwell drilled a total of seven borings at six locations (B1 through B6) at the Site to further define the lateral extent of toxaphene contamination that was detected in four previous borings (C, E, EN, and WN). Boring B1 was located within a very shallow depression in the south-central portion of the Site. Borings B2 through B6 were located to the east, north, and west of the shallow depression. The location of the previously drilled borings and the borings drilled during this additional investigation are shown in Figure 1.

Based on the results of the previous investigation, the depth interval from 9 to 12 feet bgs was targeted during this additional investigation. Continuous soil samples were collected from each boring from 9 to 12 feet bgs and analyzed by an on-site mobile laboratory for toxaphene. Brown and Caldwell subcontracted THF Drilling, Inc. to perform drilling operations using a hollow-stem auger drilling rig. Samples were collected using a split-spoon sampler lined with 4-inch brass sleeves. The soil samples collected from each boring were visually inspected in the field for changes in color and composition. Samples collected between the depths of 9 to 12 feet bgs were selected from each boring for toxaphene analysis at the Transwest Geochem, Inc. (Transwest) on-site mobile. Soil samples were analyzed using U.S. Environmental Protection Agency (USEPA) Test Method 8081A modified. Following drilling and sampling of each boring, the boring was abandoned by filling the borehole with soil cuttings.

During the drilling of Boring B4, soil cuttings removed from the approximate depth of 4 to 6 feet bgs showed a yellowish discoloration. A second Boring (B4A) was drilled adjacent to Boring B4 so that a discrete split-spoon sample could be collected from the discolored soil. A split-spoon sample and a cuttings sample from Boring B4A were analyzed at the on-site mobile laboratory for toxaphene.

### *Analytical Results*

The results of the toxaphene analysis for samples collected from B1 through B6 during this additional investigation are shown in Table 1. The concentration distribution of samples analyzed from all borings drilled at the Site is shown in Figure 2. Of the 13 soil samples collected and analyzed on site during this investigation, only 2 samples were reported at or above the laboratory method reporting limit of 1.0 mg/Kg for toxaphene. None of the sample results were above the RSRL of 4.0 mg/Kg. Samples from Boring B1 had detectable toxaphene concentrations of 2.4 and 2.5 mg/Kg at depths of 10 to 10.5 and 10.5 to 11 feet bgs, respectively. No other samples analyzed by Transwest were reported with concentrations above the laboratory method reporting limit for toxaphene.

Duplicate samples from samples collected in Borings B1 and B4A were submitted to Acculabs, Inc., an Arizona Department of Health Services (ADHS) certified laboratory, for confirmatory analysis. The Acculabs' results were similar to the on-site laboratory (Table 1).

TABLE 1.

BORING NO.	SAMPLE DEPTH	TRANSWEST (MOBILE LABORATORY) ANALYTICAL RESULTS
B1	10 to 10.5 feet bgs	2.4 mg/Kg
B1	10.5 to 11 feet bgs	2.5 mg/Kg
B2	10 to 10.5 feet bgs	<1.0 mg/Kg
B2	11.5 to 12 feet bgs	<1.0 mg/Kg
B3	9 to 9.5 feet bgs	<1.0 mg/Kg
B3	10.5 to 11 feet bgs	<1.0 mg/Kg
B4	9 to 9.5 feet bgs	<1.0 mg/Kg
B4A	5 to 5.5 feet bgs	<1.0 mg/Kg
B4A <sup>1</sup>		<1.0 mg/Kg
B5	10 to 10.5 feet bgs	<1.0 mg/Kg
B5	11.5 to 12 feet bgs	<1.0 mg/Kg
B6	9 to 9.5 feet bgs	<1.0 mg/Kg
B6	11.5 to 12 feet bgs	<1.0 mg/Kg

<sup>1</sup> Sample was collected from cuttings from approximately 4 to 6 feet bgs.

<sup>2</sup> Confirmation results from Acculabs is 2.6 mg/Kg for Boring B1 and <0.3 mg/Kg for Boring B4A.

Submittals of soil samples were documented on the laboratory chain-of-custody as to sample nomenclature, sampling time, and the date. Analytical results were documented in daily preliminary result summaries and on the certified laboratory reports, which are presented as Appendix A.

### ***Conclusions and Recommendations***

Based on the results of this investigation, the lateral extent of toxaphene-impacted soil at the Site has been defined. Toxaphene concentrations above the RSRL have only been detected in borings near the south-property boundary. The analytical results indicate that the lateral extent of toxaphene between 9 and 12 feet bgs is limited to the area between the southern boundary of the Site and the south-central part of the Site.

Based on the intended use of the Site as a flood control detention basin, Brown and Caldwell recommends the following:

1. During the excavation of this area, soils from 9 to 12 feet bgs along the south-central part of the Site should be segregated and placed on plastic sheeting. Brown and Caldwell recommends that excavated soil from 9 to 12 feet bgs be placed in separate piles of up to 100 cubic yards.
2. One discrete soil sample should be collected from approximately every 100 cubic yards of soil excavated and analyzed at an ADHS-certified laboratory for toxaphene. If the analytical results are below the RSRL, then the soil can be used on the Site as fill material or removed from the Site. If the soil samples contain

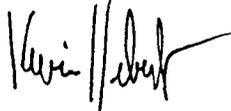
Mr. Robert Stevens  
February 3, 1999  
Page 4

toxaphene concentrations above the RSRL, then the soil pile could be remediated on site or disposed at a solid waste facility.

If you have any questions or require any additional information, please feel free to contact us at 222-4444.

Very truly yours,

BROWN AND CALDWELL



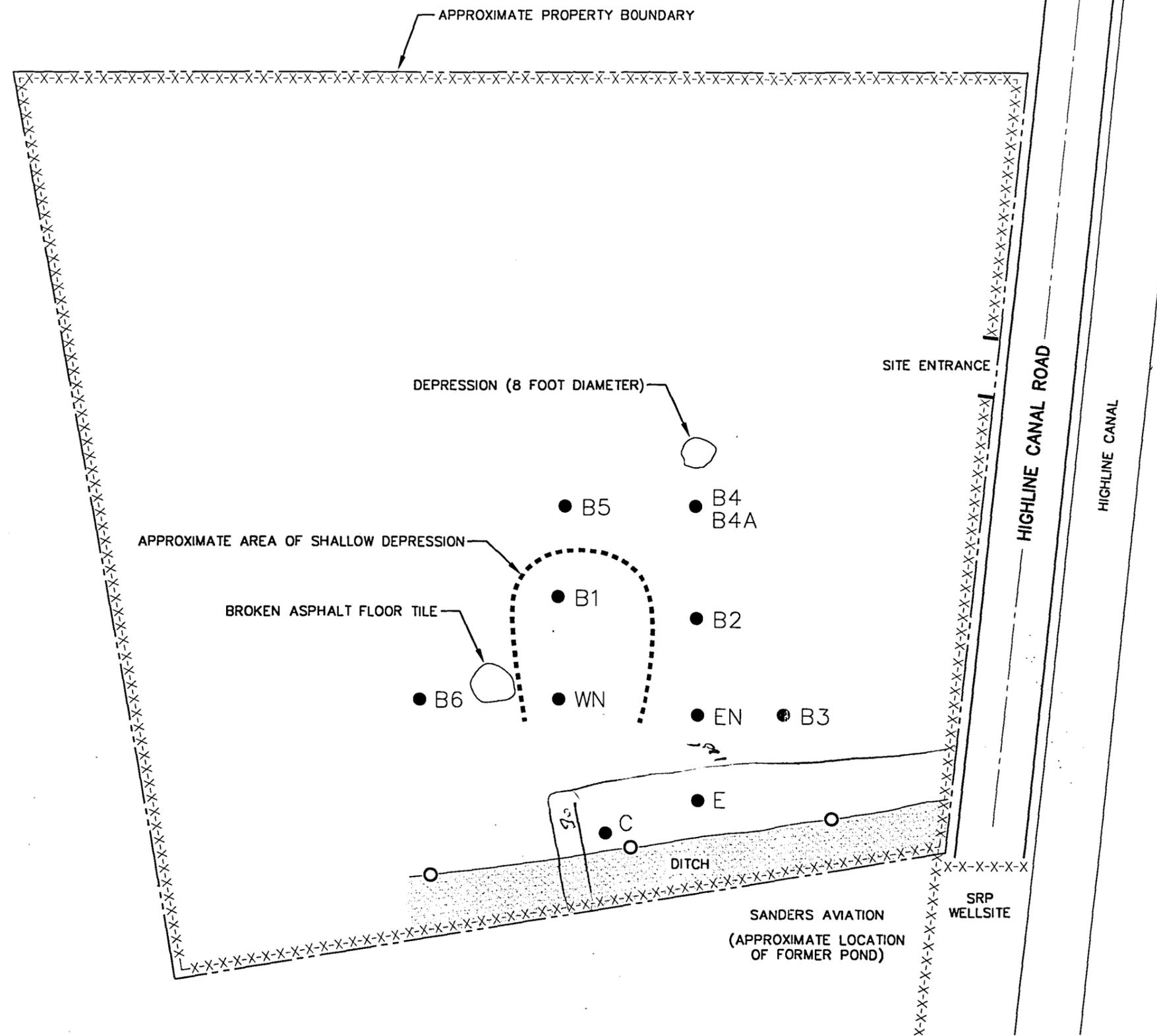
Kevin Hebert, R.G.  
Senior Project Manager



Anthony Martorana  
Environmental Manager

ARM:kw  
Attachments





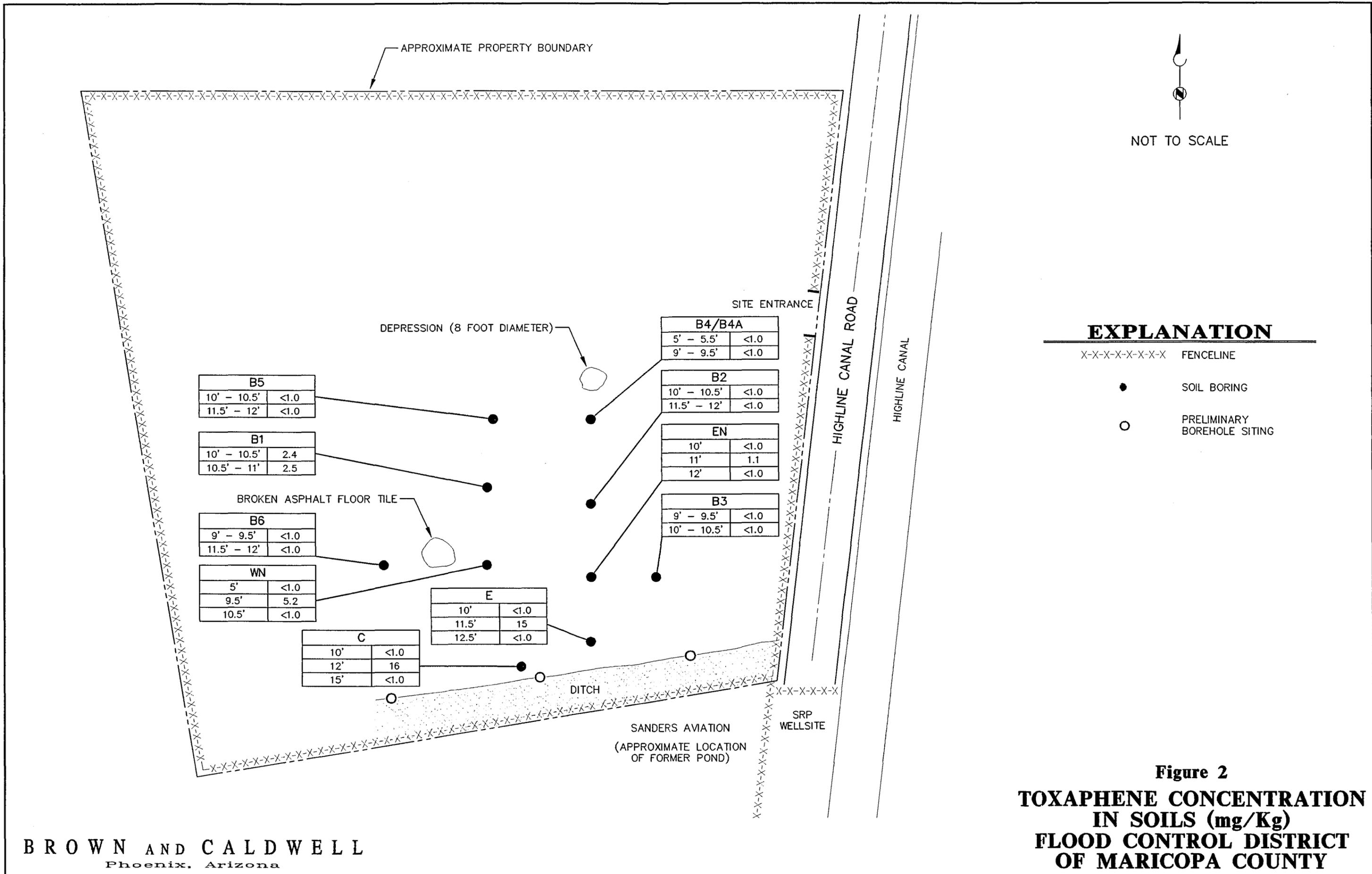
  
 NOT TO SCALE

**EXPLANATION**

X-X-X-X-X-X-X-X	FENCELINE
● EN	SOIL BORING
○	PRELIMINARY BOREHOLE SITING

**Figure 1**  
**SOIL BORING LOCATION MAP**  
**FLOOD CONTROL DISTRICT**  
**OF MARICOPA COUNTY**

**BROWN AND CALDWELL**  
 Phoenix, Arizona



B5	
10' - 10.5'	<1.0
11.5' - 12'	<1.0

B1	
10' - 10.5'	2.4
10.5' - 11'	2.5

B6	
9' - 9.5'	<1.0
11.5' - 12'	<1.0

WN	
5'	<1.0
9.5'	5.2
10.5'	<1.0

C	
10'	<1.0
12'	16
15'	<1.0

E	
10'	<1.0
11.5'	15
12.5'	<1.0

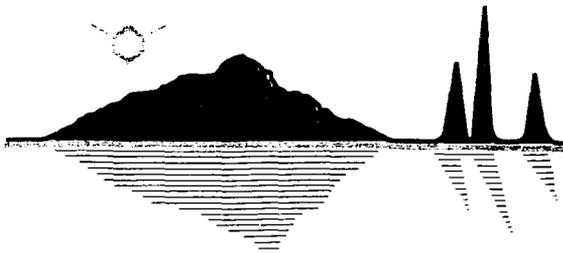
B4/B4A	
5' - 5.5'	<1.0
9' - 9.5'	<1.0

B2	
10' - 10.5'	<1.0
11.5' - 12'	<1.0

EN	
10'	<1.0
11'	1.1
12'	<1.0

B3	
9' - 9.5'	<1.0
10' - 10.5'	<1.0

**APPENDIX A**  
**ANALYTICAL LABORATORY REPORTS**



**TRANSWEST**  
**GEOCHEM**

**JAN - 6 1999**

TGI ID: A812029

December 31, 1998

Brown and Caldwell  
3636 N. Central Ave, Suite 200  
Phoenix, Arizona 85012

Attention: Tony Martorana  
Project Name/No: FCD-Guadalupe/16935.004  
Samples Received: 12/14/98  
Matrix: Soil  
Mobile Lab No.: TGI05

Transwest Geochem, Inc. received and analyzed samples on the above date(s). The samples were analyzed by EPA Method 8081A-Modified, a field screening method. The results of these analyses and the quality control data are enclosed.

As part of the project, three samples were networked to Acculabs, Inc. for DDE, DDD, DDT and Toxaphene analysis by EPA Method 8081A. Acculab's final report will be forwarded as soon as it is received along with a separate invoice for the analyses.

If you have any questions or comments, please do not hesitate to contact us at (602)756-1400.

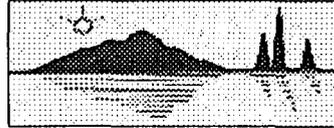
Sincerely,

Michael E. Barber  
Laboratory Director

ADHS License No.: AZM133

**Transwest Geochem, Inc.**  
**Analytical Results**

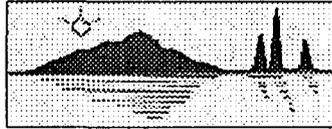
Client Name: Brown and Caldwell  
Project Name/No.: FCD-Guadalupe/16935.004  
Samples Received: 12/14/98



TGI ID No.: A812029  
ADHS Cert. No.: AZM133

TGI ID/ SAMPLE NUMBER	CLIENT ID	Matrix	Units	EPA Method 8081A-Modified							
				Date Extracted	Date Analyzed	Dil.	4,4'- DDE	4,4'- DDD	4,4'- DDT	Toxaphene	Sur. Rec. %
A812029 -01	G-B1-10-10.5	Soil	mg/kg	12/14/98	12/14/98	1	0.86	<0.05	<0.05	2.4	96
A812029 -02	G-B1-10.5-11	Soil	mg/kg	12/14/98	12/14/98	1	0.98	<0.05	<0.05	2.5	107
A812029 -03	G-B2-10-10.5	Soil	mg/kg	12/14/98	12/14/98	1	<0.05	<0.05	<0.05	<1.0	128
A812029 -04	G-B3-9-9.5	Soil	mg/kg	12/14/98	12/14/98	1	<0.05	<0.05	<0.05	<1.0	131
A812029 -05	G-B3-10.5-11	Soil	mg/kg	12/14/98	12/14/98	1	<0.05	<0.05	<0.05	<1.0	130
A812029 -06	G-B4-9-9.5	Soil	mg/kg	12/14/98	12/14/98	1	<0.05	<0.05	<0.05	<1.0	133
A812029 -07	G-B4a-4-6c	Soil	mg/kg	12/14/98	12/14/98	1	<0.05	<0.05	<0.05	<1.0	124
A812029 -08	G-B4a-5-5.5	Soil	mg/kg	12/14/98	12/14/98	1	0.14	0.52	<0.05	<1.0	131
A812029 -09	G-B2-11.5-12	Soil	mg/kg	12/14/98	12/14/98	1	<0.05	<0.05	<0.05	<1.0	126
A812029 -10	G-B5-10-10.5	Soil	mg/kg	12/14/98	12/14/98	1	<0.05	<0.05	<0.05	<1.0	125
A812029 -11	G-B5-11.5-12	Soil	mg/kg	12/14/98	12/14/98	1	<0.05	<0.05	<0.05	<1.0	128
A812029 -12	G-B5-9-9.5	Soil	mg/kg	12/14/98	12/14/98	1	0.16	<0.05	<0.05	<1.0	128
A812029 -13	G-Drum 1	Soil	mg/kg	Field Analysis not requested							
A812029 -14	G-B6-11.5-12	Soil	mg/kg	12/14/98	12/14/98	1	<0.05	<0.05	<0.05	<1.0	135

Transwest Geochem, Inc.  
Analytical Quality Control Data  
Reagent Blank Method 8081A-mod



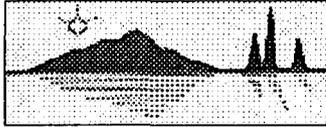
Client Name: Brown and Caldwell  
Project Name/No.: FCD-Guadalupe/16935.004  
Samples Received: 12/14/98

TGI ID No.: A812029  
ADHS Cert. No.: AZM133

Units:	mg/kg
Matrix:	Soil
4,4'-DDE	<0.05
4,4'-DDD	<0.05
4,4'-DDT	<0.05
Toxaphene	<1.0
Surrogate Recovery %:	79
Date Extracted:	12/14/98
Date Analyzed:	12/14/98
Samples Linked:	A812029 -(1-12,14)

Transwest Geochem, Inc.  
Analytical Quality Control Data  
MS/MSD 8081A-mod

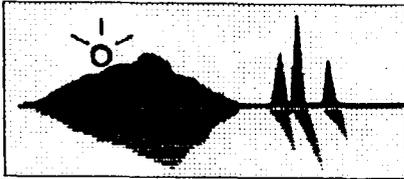
Client Name: Brown and Caldwell  
Project Name/No.: FCD-Guadalupe/16935.004  
Samples Received: 12/14/98



TGI ID No.: A812029  
ADHS Cert. No.: AZM133

	Toxaphene
Units:	mg/kg
Matrix:	Soil
Sample Result:	2.4
Spike Amount:	5.0
Spike Result:	7.2
Percent Recovery:	96%
Duplicate Result:	7.1
Percent Recovery:	94%
RPD:	1%
Date Extracted:	12/14/98
Date Analyzed:	12/14/98
Sample Spiked:	A812029 -01
Samples Linked:	A812029 -(1-12,14)

**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**  
**TRANSWEST GEOCHEM, INC.** 1810 W. DRAKE DRIVE, SUITE 103 TEMPE, AZ 85283 602-756-1400 602-756-1410 FAX



Project Manager:	Tony, MARIORAWA
Client Name:	Fredson Brown & Caldwell
Address:	3636 N Central Ave #200
City, State ZIP:	Phoenix AZ 85012
Phone:	222-4474
Fax:	222-4466

Bill to:	SAME
Company:	
Address:	
City, State ZIP:	
Phone:	
Fax:	

Date:	12/14/98
Page:	1 of
Laboratory:	TGI# 05
Lab Number:	A812029

Project Name:	FC-D-Gradulope
Project Number:	16935.004

P.O. No.:	
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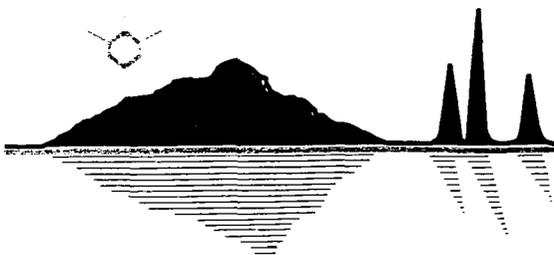
**Analysis Requested**

Sample Identification	Date Sampled	Time Sampled	Matrix	Relinquished By:	Time Relinquished:	Date Relinquished:	Received By:	Lab ID	TRPH (418.1AZ)	BTEX (8021B)	TPH - Gas (8015AZ)	TPH - (8015AZ)	( Gas X Diesel X Oil )	GCMS - (8260B / 624)	SOBIA - Mod	SOBIA - TOX	No. Containers	Remarks
G-81-9.5-10-10.5	12/14/98	11:45	soil	Tom	1150	12/14/98	SA	1							X		1	
G-81-10.5-11	12/14/98	12:00	soil	Tom	1210	12/14/98	SA	2							X	X	1	
G-82-10-10.5	12/14/98	1227	SOIL	Tom	1251	1254	SA	3							X		1	
G-83-9-9.5	12/14/98	1305	SOIL	Tom	1324	12/14/98	SA	4							X		1	
G-83-10.5-11	12/14/98	1315	SOIL	Tom	1324	12/14/98	SA	5							X		1	
G-84-9-9.5	12/14/98	1345	soil	Tom	1405	12/14/98	SA	6							X		1	
G-84a-4-6c	12/14/98	1410	soil	Tom	1415	12/14/98	SA	7							X		1	
G-84a-5-5.5	12/14/98	1415	SOIL	Tom	1426	12/14/98	SA	8							X	X	1	
G-82-11.5-12	12/14/98	1340	SOIL	Tom	1431	12/14/98	SA	9							X		1	
G-85-10-10.5	12/14/98	1455	SOIL	Tom	1500	12/14/98	SA	10							X		1	
G-85-11.5-12	12/14/98	1505	SOIL	Tom	1512	12/14/98	SA	11							X		1	
G-86-9-9.5	12/14/98	1540	SOIL	Tom	1538	12/14/98	SA	12							X		1	
G-DUM 1	12/14/98	1615	SOIL	Tom	1616	12/14/98	SA	13								X	1	
G-86-11-12	12/14/98	1600	SOIL	Tom	1635	12/14/98	SA	14							X		1	

Initials:	Printed Name:	Signature:
Tom	MARIORAWA, TONY	<i>Tony Mariorawa</i>
SA	Shawn Kusma	<i>Shawn Kusma</i>
SA	MILLIE E. BARCEL	<i>Millie E. Barcel</i>

Date:	12/14/98
Start Time:	7:45
Stop Time:	1730
Hours:	10
Client Sign-off:	

Total Containers:	14
Received Intact:	Y
Received Cold:	N
Custody Seals:	N



**TRANSWEST**  
**GEOCHEM**

JAN 25 1999

TGI ID: A812029

January 21, 1999

Brown and Caldwell  
3636 N. Central Ave, Suite 200  
Phoenix, Arizona 85012

Attention: Tony Martorana

Project Name/No: FCD-Guadalupe/16935.004  
Samples Received: 12/14/98  
Matrix: Soil  
Mobile Lab No.: TGI05

Enclosed are the analytical results from Acculab Inc. for the Toxaphene, DDE, DDD, and DDT analyses you requested, along with our final invoice for this project.

If you have any questions or comments, please do not hesitate to contact us at (602)756-1400.

Sincerely,

*E. Proffitt for:*

Michael E. Barber  
Laboratory Director

ADHS License No.: AZM133



**Acculabs Inc.**

**Tempe**

1725 W. 17th Street, Tempe AZ 85281 • 602-967-1310 • Fax 967-1019

**Acculabs ID No.: 1-812-218**

January 12, 1999

Transwest Geochem, Inc.  
1810 W. Drake Drive, Ste. 103  
Tempe, AZ 85283  
Attention: Michael Barber

Project Name: FCD-Guadalupe  
Project Number: A812029  
Date Received: 12/15/98

This is to transmit the attached analytical report. The analytical data and information contained therein was generated using specified or selected methods contained in references, such as Test Methods for Evaluating Solid Waste, EPA SW-846, 3rd Edition.

The samples were received by Acculabs Inc. in good condition on 12/15/98.

If you should have any questions or comments regarding this report, please do not hesitate to contact me.

Sincerely,

Stewart Podolsky  
Laboratory Director  
ADHS License Number AZ0563

Enclosure



# Acculabs Inc.

Tempe

1725 W. 17th Street, Tempe AZ 85281 • 602-967-1310 • Fax 967-1019

Transwest Geochem, Inc.  
1810 W. Drake Drive, Ste. 103  
Tempe, AZ 85283  
Attention: Michael Barber

**Acculabs I.D.:** 1-812-218-01  
Date Received: 12/15/98  
Date Reported: 01/12/99  
Date Extracted: 12/16/98

**PROJECT NAME:** FCD-Guadalupe  
**PROJECT NUMBER:** A812029  
**SAMPLE I.D.:** G-B1-10.5-11 (2)

Sample Date: 12/14/98  
Sample Matrix: Soil  
Units: mg/kg

## RESULTS

PARAMETER	METHOD	RESULTS	DILUTION	DATE ANALYZED
4,4-DDE	8081A	0.75	20	12/31/98
4,4-DDD	8081A	< 0.050	10	12/31/98
4,4-DDT	8081A	< 0.050	10	12/31/98
Toxaphene	8081A	2.6	10	12/22/98

SURROGATE	% RECOVERY
TCMX	41
DCBP	64

Stewart Podolsky, Laboratory Director



# Acculabs Inc.

Tempe

1725 W. 17th Street, Tempe AZ 85281 • 602-967-1310 • Fax 967-1019

Transwest Geochem, Inc.  
1810 W. Drake Drive, Ste. 103  
Tempe, AZ 85283  
Attention: Michael Barber

**Acculabs I.D.:** 1-812-218-02  
Date Received: 12/15/98  
Date Reported: 01/12/99  
Date Extracted: 12/16/98

**PROJECT NAME:** FCD-Guadalupe  
**PROJECT NUMBER:** A812029  
**SAMPLE I.D.:** G-B4A-5-5.5 (8)

Sample Date: 12/14/98  
Sample Matrix: Soil  
Units: mg/kg

## RESULTS

PARAMETER	METHOD	RESULTS	DILUTION	DATE ANALYZED
4,4-DDE	8081A	1.0	40	12/31/98
4,4-DDD	8081A	0.94	10	12/31/98
4,4-DDT	8081A	< 0.050	10	12/31/98
Toxaphene	8081A	< 0.30	10	12/22/98

SURROGATE	% RECOVERY
TCMX	42
DCBP	71

Stewart Podolsky, Laboratory Director



# Acculabs Inc.

Tempe

1725 W. 17th Street, Tempe AZ 85281 • 602-967-1310 • Fax 967-1019

Transwest Geochem, Inc.  
1810 W. Drake Drive, Ste. 103  
Tempe, AZ 85283  
Attention: Michael Barber

**Acculabs I.D.:** 1-812-218-03

Date Received: 12/15/98  
Date Reported: 01/12/99  
Date Extracted: 12/16/98

**PROJECT NAME:** FCD-Guadalupe  
**PROJECT NUMBER:** A812029  
**SAMPLE I.D.:** G. Drum 1 (13)

Sample Date: 12/14/98  
Sample Matrix: Soil  
Units: mg/kg

## RESULTS

PARAMETER	METHOD	RESULTS	DILUTION	DATE ANALYZED
4,4-DDE	8081A	0.074	2	12/31/98
4,4-DDD	8081A	< 0.010	2	12/31/98
4,4-DDT	8081A	< 0.010	2	12/31/98
Toxaphene	8081A	0.50	2	12/22/98

SURROGATE	% RECOVERY
TCMX	41
DCBP	67

Stewart Podolsky, Laboratory Director

Acculabs Inc.

QC BATCH: P121698A	DATE EXT: 12/16/98
	UNITS: mg/Kg

METHOD 8081A-SOIL  
METHOD BLANK REPORT

PARAMETER	REPORT LIMIT	RESULTS	DILUTION	DATE ANALYZED
A-BHC	0.0050	<0.0050	1	12/31/98
G-BHC (Lindane)	0.0050	<0.0050	1	12/31/98
B-BHC	0.0050	<0.0050	1	12/31/98
Heptachlor	0.0050	<0.0050	1	12/31/98
D-BHC	0.0050	<0.0050	1	12/31/98
Aldrin	0.0050	<0.0050	1	12/31/98
Heptachlor epoxide	0.0050	<0.0050	1	12/31/98
Endosulfan I	0.0050	<0.0050	1	12/31/98
4,4-DDE	0.0050	<0.0050	1	12/31/98
Dieldrin	0.0050	<0.0050	1	12/31/98
Endrin	0.0050	<0.0050	1	12/31/98
4,4-DDD	0.0050	<0.0050	1	12/31/98
Endosulfan II	0.0050	<0.0050	1	12/31/98
4,4-DDT	0.0050	<0.0050	1	12/31/98
Endrin aldehyde	0.025	<0.025	1	12/31/98
Endosulfan sulfate	0.0050	<0.0050	1	12/31/98
Methoxychlor	0.010	<0.010	1	12/31/98
Chlordane	0.020	<0.020	1	12/31/98
Toxaphene	0.030	<0.030	1	12/31/98

SURROGATE	% RECOVERY	LIMITS
TCMX	29	D-138
DCBP	73	32-151

  
 Yu Min Shi, Organics Supervisor

Acculabs Inc.

Spiked Sample No.: 1-812-218-03	<b>8081A-SOIL</b>	Date Extracted: 12/16/98
		Date Analyzed: 12/31/98
QC Batch: P121698A		Units: mg/kg

### QUALITY CONTROL REPORT

PARAMETER	EPA METHOD	MATRIX SPIKES							LABORATORY CONTROL SAMPLE		
		SAMPLE RESULT	SPIKE ADDED	SPIKE RESULT	% REC	MSD RESULT	% REC	RPD	SPIKE ADDED	LCS RESULT	% REC
G-BHC (Lindane)	8081A	<0.010	0.017	0.00824	48	0.00948	56	14	0.017	0.00941	55
Heptachlor	8081A	<0.010	0.017	0.00764	45	0.00826	49	8	0.017	0.00852	50
Aldrin	8081A	<0.010	0.017	0.00788	46	0.00864	51	9	0.017	0.00905	53
Dieldrin	8081A	<0.010	0.017	0.0179	105	0.0202	119 M	12	0.017	0.0116	68
Endrin	8081A	<0.010	0.017	0.0199	117 M	0.0210	124 M	5	0.017	0.0118	69
4,4-DDT	8081A	<0.010	0.017	0.0177	104	0.0199	117 M	12	0.017	0.0120	71

  
 Yu Min Shi, Organics Supervisor