

Confidential Report

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Summary Report:  
July 2001 Soil Sampling Program  
PCB Litigation – Crystal Springs, Mississippi

3TM Project Reference: 3TM-DNA-102000-03

prepared for

David Nutt & Associates  
Jackson, Mississippi

October 17, 2001

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## 1.0 Introduction and Overview

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This Report summarizes the results of the collection of soil samples from various residences surrounding the Kuhlman Electric facility in Crystal Springs, Mississippi.

Previous sampling of soils, sediments, and indoor dust conducted by 3TM International at or near residences surrounding the Kuhlman Electric facility indicated the presence of Polychlorinated Biphenyls (PCBs). Limited analytical testing also indicated the presence of Dioxins.

Soil sampling performed by Kuhlman Electric has also indicated the presence of PCBs in the soils at several residences of interest.

Thus, the purpose of the July, 2001 field program was to collect additional soil samples at various residences in Crystal Springs, Mississippi to further characterize the presence of PCBs and Dioxins in the general area.

The July, 2001 field program was conducted during July 24 - 25, 2000, and consisted of collecting 63 soil samples at 5 residences. All of the samples were tested for PCBs, and six samples were tested for Dioxins.

The testing results indicated the presence of high levels of PCBs in the soil at a number of residences in Crystal Springs. Sample testing results indicated levels of PCB 1260 ranging from Below Reporting Limits (BRL) to 108 parts per million (ppm). Testing results also indicated levels of 2,3,7,8-TCDD ranging from 0.348 parts per trillion (ppt) to 3.63 ppt, and total Dioxin Toxic Equivalency Quotient (TEQ) ranging from 23.9 ppt to 189 ppt.

## 2.0 Description of Soil Sampling Program

### 2.1 Sampling Locations and Procedures

For purposes of this Report, the term "surface soil" is defined as the top layer of soil at a sampling location, generally from 0 to 18 inches below ground surface (bgs). All samples were collected using the standard procedures previously developed by 3TM International in previous field campaigns, and summarized below.

The sampling locations were determined by 3TM International prior to conducting the field campaign. The locations were selected based on the locations tested by representatives of Kuhlman Electric that showed high levels of PCBs. Additional samples were collected at residences with no prior environmental media testing, but at which the residents had blood testing results that indicated the presence of PCBs.

Soil samples were collected at the following residences in Crystal Springs, Mississippi (hereinafter referred to as the "sites"):

- Site #1  
108 Tucker Street  
Crystal Springs, Mississippi
  
- Site #2  
103 Tucker Street  
Crystal Springs, Mississippi
  
- Site #3  
107 Forrest Street  
Crystal Springs, Mississippi
  
- Site #4  
104 Forrest Street  
Crystal Springs, Mississippi
  
- Site #5  
100 Pearl Street  
Crystal Springs, Mississippi

Samples at 108 Tucker Street, 107 Forrest Street, and 104 Forrest Street were collected in grids around specific Kuhlman sample collection locations.

The samples at 108 Tucker Street were collected in a 9-point grid around DP-994.

Samples at 107 Forrest Street were collected at locations corresponding to two different Kuhlman sampling locations – Samples HA-20 through HA-24 were collected in a 5-point grid around DP-848, and Samples HA-25 through HA-29 were collected in a 5-point grid

around DP-846.

Each sample at 104 Forrest Street was collected at a location corresponding to a different Kuhlman sampling location. Sample HA-30 was collected at the approximate location of Kuhlman Sample DP-820. Sample HA-31 was collected at the approximate location of Kuhlman Sample DP-821. Sample HA-32 was collected at the approximate location of Kuhlman Sample DP-818.

All samples at 103 Tucker Street and 100 Pearl Street were collected due to elevated levels of contaminant in the residents' blood.

Five samples from 103 Tucker Street were randomly collected throughout the backyard and in the garden. The remaining five samples were collected in a 5-point grid in the front yard.

The samples at 100 Pearl Street were collected in two separate 5-point grids. One sampling grid was placed in the front yard and the other was placed in the back yard.

## 2.2 Decontamination of Sampling Equipment

Sampling at each location was accomplished using only sampling equipment that had been properly decontaminated, in order to eliminate the possibility for cross-contamination. Upon completion of sampling at a location, the sampling tools were decontaminated by manually removing large portions of adhered soils, scrubbing with Alconox detergent (a phosphate free soap) and potable water, and final rinsing with de-ionized water. The sampler donned new latex gloves before collecting each sample. Care was taken to ensure the utmost integrity of the samples.

## 2.3 Documentation of Sample Collection

Each sampling point and each sample collected were documented in the field by the field supervisor by completing the following forms:

- Soil Sample Collection Logs that document the method of sample collection and various sample-specific aspects of the sample. Soil Sample Collection Logs include documentation of the project and sample point location, sample collection date and time, sample number, method of sample collection, type of soil, quantity of sample collected, sample depth, type of sample container and preservative, name of field supervisor, signature of field supervisor, and similar information. Soil Sample Collection Logs are presented in Appendix A.
- Site Sketches that document the approximate location of the sampling point. The Site Sketches are shown in Appendix B.
- Photographic representation is provided for each sampling location. Photographs are taken to pinpoint where samples were collected in the field. Photographs are presented in Appendix C.

- Analytical Testing Chain-of-Custody that documents the handling of samples submitted to Xenco Laboratories, during the collection, shipping, and testing process. The Chain-of-Custody forms are presented in Appendix D along with the complete Xenco analytical testing results.
- Analytical Testing Chain-of-Custody that documents the handling of samples submitted to Midwest Research Institute (MRI), during the collection, shipping, and testing process. The Chain-of-Custody forms are presented in Appendix E along with the complete MRI analytical testing results.

#### 2.4 Analytical Testing Methodology

All soil samples were tested for Polychlorinated Biphenyls (PCBs) using EPA Method 8082 by Xenco Laboratories of Houston, Texas.

Six of the samples were tested for Dioxins using EPA Method 8290 by Midwest Research Institute of Kansas City, Missouri. These six samples include HA-01, HA-06, HA-21, HA-22, HA-30, and HA-32.

The results of the analytical testing are summarized in Table 1, Table 2, and Table 3. The complete analytical testing reports are presented in Appendix D and Appendix E.

### 3.2 Significance of Findings

The findings should be considered in light of the following:

- The soil sampling program was limited in scope, both in terms of the number of residences sampled, and the number of samples collected and tested from each residence.
- Therefore, the results presented herein do not necessarily represent the maximum extent of PCB contamination that could potentially exist at the residences, or the maximum concentrations of PCBs that could exist at any given residence.

### 3.3 Recommendations

Based on the analytical testing results of the July, 2001 Soil Sampling Program, we recommend:

- Correlation of the soil sampling data with other analytical testing results from soil and sediment sampling data, indoor dust sampling data, human blood sampling data, and other information.
- Correlating the PCB data with the Dioxin data.
- Formulating a plan of further action based on the results of the above correlations and evaluations.

**TABLE 1**  
**Summary of Surface Soil Sampling**  
**Analytical Results**

<b>Sample ID</b>	<b>Depth (bgs)</b>	<b>Address</b>	<b>Collection Date</b>	<b>Concentration PCB-1260 (ug/kg)</b>
HA-1	18 in.	108 Tucker St.	7/24/01	9160
HA-2	18 in.	108 Tucker St.	7/24/01	3340
HA-3	18 in.	108 Tucker St.	7/24/01	5610
HA-4	18 in.	108 Tucker St.	7/24/01	5020
HA-5A	6 in	108 Tucker St.	7/24/01	2120
HA-5B	18 in	108 Tucker St.	7/24/01	2070
HA-6	18 in.	108 Tucker St.	7/24/01	16900
HA-7	18 in.	108 Tucker St.	7/24/01	2850
HA-8	18 in.	108 Tucker St.	7/24/01	1480
HA-9	18 in.	108 Tucker St.	7/24/01	2370
HA-10A	6 in	103 Tucker St.	7/24/01	BRL
HA-10B	18 in.	103 Tucker St.	7/24/01	BRL
HA-11A	6 in	103 Tucker St.	7/24/01	BRL
HA-11B	18 in.	103 Tucker St.	7/24/01	BRL
HA-12A	6 in	103 Tucker St.	7/24/01	26.1
HA-12B	18 in.	103 Tucker St.	7/24/01	BRL
HA-13A	6 in	103 Tucker St.	7/24/01	BRL
HA-13B	18 in.	103 Tucker St.	7/24/01	51.9
HA-14A	6 in	103 Tucker St.	7/24/01	BRL
HA-14B	18 in.	103 Tucker St.	7/24/01	BRL
HA-15A	6 in	103 Tucker St.	7/24/01	BRL
HA-15B	18 in.	103 Tucker St.	7/24/01	BRL
HA-16A	6 in	103 Tucker St.	7/24/01	BRL
HA-16B	18 in.	103 Tucker St.	7/24/01	BRL
HA-17A	6 in	103 Tucker St.	7/24/01	BRL
HA-17B	18 in.	103 Tucker St.	7/24/01	BRL
HA-18A	6 in	103 Tucker St.	7/24/01	BRL
HA-18B	18 in.	103 Tucker St.	7/24/01	BRL
HA-19A	6 in	103 Tucker St.	7/24/01	BRL
HA-19B	6 in	103 Tucker St.	7/24/01	BRL
HA-20	6 in	107 Forrest St.	7/24/01	4450
HA-21	6 in	107 Forrest St.	7/24/01	18700
HA-22	6 in	107 Forrest St.	7/24/01	20000
HA-23	6 in	107 Forrest St.	7/24/01	4630
HA-24	6 in	107 Forrest St.	7/24/01	1510
HA-25	6 in	107 Forrest St.	7/24/01	162
HA-26	6 in	107 Forrest St.	7/24/01	BRL
HA-27	6 in	107 Forrest St.	7/24/01	3310
HA-28	6 in	107 Forrest St.	7/24/01	2260
HA-29	6 in	107 Forrest St.	7/24/01	359



**TABLE 1**  
**Summary of Surface Soil Sampling**  
**Analytical Results**

<b>Sample ID</b>	<b>Depth (bgs)</b>	<b>Address</b>	<b>Collection Date</b>	<b>Concentration PCB-1260 (ug/kg)</b>
HA-30	6 in	104 Forrest St.	7/24/01	108000
HA-31	6 in	104 Forrest St.	7/24/01	1710
HA-32	6 in	104 Forrest St.	7/24/01	9920
HA-33A	6 in	100 Pearl St.	7/25/01	210
HA-33B	18 in.	100 Pearl St.	7/25/01	BRL
HA-34A	6 in	100 Pearl St.	7/25/01	300
HA-34B	18 in.	100 Pearl St.	7/25/01	BRL
HA-35A	6 in	100 Pearl St.	7/25/01	BRL
HA-35B	18 in.	100 Pearl St.	7/25/01	BRL
HA-36A	6 in	100 Pearl St.	7/25/01	17
HA-36B	18 in.	100 Pearl St.	7/25/01	BRL
HA-37A	6 in	100 Pearl St.	7/25/01	69.6
HA-37B	18 in.	100 Pearl St.	7/25/01	BRL
HA-38A	6 in	100 Pearl St.	7/25/01	130
HA-38B	18 in.	100 Pearl St.	7/25/01	BRL
HA-39A	6 in	100 Pearl St.	7/25/01	33.8
HA-39B	18 in.	100 Pearl St.	7/25/01	BRL
HA-40A	6 in	100 Pearl St.	7/25/01	142
HA-40B	18 in.	100 Pearl St.	7/25/01	BRL
HA-41A	6 in	100 Pearl St.	7/25/01	44.6
HA-41B	18 in.	100 Pearl St.	7/25/01	157
HA-42A	6 in	100 Pearl St.	7/25/01	157
HA-42B	18 in.	100 Pearl St.	7/25/01	BRL

**Notes:**

bgs - Below ground Surface  
ug/kg - Equivalent to parts per billion  
BRL - Below reporting limits

**TABLE 2**  
**Summary of Surface Soil Dioxin Analytical Results**  
**Midwest Research Institute**

<b>Sample ID</b>	<b>HA-01</b>	<b>HA-06</b>	<b>HA-21</b>	<b>HA-22</b>	<b>HA-30</b>	<b>HA-32</b>
<b>Depth (inches bgs):</b>	18	18	6	6	6	6
<b>Media:</b>	Soil	Soil	Soil	Soil	Soil	Soil
<b>Date Collected:</b>	7/24/01	7/24/01	7/24/01	7/24/01	7/24/01	7/24/01
<b>Collected By:</b>	3TM	3TM	3TM	3TM	3TM	3TM
<b>units in pg/g (dry weight)</b>						
2,3,7,8-TCDF	6.14	9.83	19.8	13	112	7.06
2,3,7,8-TCDD	0.534	0.348	3.63	0.506	2.2	1.32
1,2,3,7,8-PeCDF	3.57	6.53	11.8	6.85	52.4	4.03
2,3,4,7,8-PeCDF	12.4	15.8	34.7	20.9	147	13.9
1,2,3,7,8-PeCDD	2.76	1.78	14	2.15	13.9	5.07
1,2,3,4,7,8-HxCDF	32.1	45.6	80.4	58.7	258	31.4
1,2,3,6,7,8-HxCDF	10	12	26.4	14.2	80.7	10.3
2,3,4,6,7,8-HxCDF	11.2	11	32.4	14.4	88.1	13.6
1,2,3,7,8,9-HxCDF	3.05	3.83	7.52	4.86	20.2	3.24
1,2,3,4,7,8-HxCDD	10.1	3.68	18.2	3.11	23.8	5.93
1,2,3,6,7,8-HxCDD	11.7	8.54	47.2	7.73	80.5	16.5
1,2,3,7,8,9-HxCDD	4.33	2.97	16.6	2.72	22.8	5.41
1,2,3,4,6,7,8-HpCDF	293	250	883	222	1840	401
1,2,3,4,7,8,9-HpCDF	14.5	19.6	35.2	27	119	13.3
1,2,3,4,6,7,8-HpCDD	169	98.4	404	86.4	787	146
OCDF	162	177	429	224	1450	214
OCDD	5840 C	3600	4280 C	2260	5440 C	3990
<b>Total TEQ (pg/g dry weight)</b>	<b>23.9</b>	<b>24.2</b>	<b>74.2</b>	<b>28.9</b>	<b>189</b>	<b>28.9</b>

**NOTES:**

bgs - below ground surface

pg/g - picograms per gram is equivalent to parts per trillion

C - Value is above the upper calibration standard

TEQ - Toxic Equivalency Quotient

TABLE 3  
 David Nutt & Associates - Crystal Springs  
 Overview of July Soil Sampling

<b>Address</b>	<b># of Samples</b>	<b>of PCB hits</b>	<b>Highest</b>	<b>Lowest</b>	<b>of PCB &gt; 1pp</b>	<b>with PCB</b>
108 Tucker St.	10	10	16.9	1.48	10	100%
103 Tucker St.	20	2	0.0519	BRL	N/A	10%
107 Forrest St.	10	9	20	BRL	7	90%
104 Forrest St.	3	3	108	1.7	3	100%
100 Pearl St.	20	10	0.3	BRL	N/A	50%
<b>Total</b>	<b>63</b>	<b>34</b>	<b>108</b>	<b>BRL</b>	<b>20</b>	<b>54%</b>

BRL - Below Laboratory Analytical Reporting Limit  
 N/A - Not Applicable  
 units - parts per million (ppm)

**Appendix A**  
**Sample Collection Logs**

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-1

Date Sampled: 7/24/01

Time Sampled: 915 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty clayey Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-1

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-2

Date Sampled: 7/24/01

Time Sampled: 925 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-2

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-3

Date Sampled: 7/24/01

Time Sampled: 935 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: clayey silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-3

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-4

Date Sampled: 7/24/01

Time Sampled: 945 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: clayey silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-4



# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-5A

Date Sampled: 7/24/01

Time Sampled: 955 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: gravelly Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-5A

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-5B

Date Sampled: 7/24/01

Time Sampled: 1045 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*

Remarks:

Sample ID: HA-5B

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-6

Date Sampled: 7/24/01

Time Sampled: 1000 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-6

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-7

Date Sampled: 7/24/01

Time Sampled: 1015 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-7

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-8

Date Sampled: 7/24/01

Time Sampled: 1025 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-8

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-9

Date Sampled: 7/24/01

Time Sampled: 1035 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-9

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-10A

Date Sampled: 7/24/01

Time Sampled: 1115 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: clayey Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-10A

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 108 Tucker St.

Boring Number: HA-10B

Date Sampled: 7/24/01

Time Sampled: 1130 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: clayey Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-10B



# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-11A

Date Sampled: 7/24/01

Time Sampled: 1145 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: clayey Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-11A

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-11B

Date Sampled: 7/24/01

Time Sampled: 1155 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: clayey Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-11B

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-12A

Date Sampled: 7/24/01

Time Sampled: 1200 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-12A

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-12B

Date Sampled: 7/24/01

Time Sampled: 1205 pm

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-12B

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-13A

Date Sampled: 7/24/01

Time Sampled: 1210 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-13A

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-13B

Date Sampled: 7/24/01

Time Sampled: 1215 pm

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-13B

# SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-14A

Date Sampled: 7/24/01

Time Sampled: 1225 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
7/24/01

Remarks:

Sample ID: HA-14A

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-14B

Date Sampled: 7/24/01

Time Sampled: 1230 pm

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*J. Mannatae*  
10/2/01

Remarks:

Sample ID: HA-14B



**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-15A

Date Sampled: 7/24/01

Time Sampled: 1235 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-15A

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-15B

Date Sampled: 7/24/01

Time Sampled: 1240 pm

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-15B

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-16A

Date Sampled: 7/24/01

Time Sampled: 1245 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
*10/02/01*

---

Remarks:

Sample ID: HA-16A

# SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-16B

Date Sampled: 7/24/01

Time Sampled: 1250 pm

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnaheo

Signature / Date:

*T. J. Dunnaheo*  
10/02/01

Remarks:

Sample ID: HA-16B

# SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-17A

Date Sampled: 7/24/01

Time Sampled: 1255 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*J. Mannalae*  
10/02/01

Remarks:

Sample ID: HA-17A

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-17B

Date Sampled: 7/24/01

Time Sampled: 100 pm

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-17B

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-18A

Date Sampled: 7/24/01

Time Sampled: 105 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-18A

## SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-18B

Date Sampled: 7/24/01

Time Sampled: 115 pm

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-18B



**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-19A

Date Sampled: 7/24/01

Time Sampled: 120 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-19A

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 103 Tucker St.

Boring Number: HA-19B

Date Sampled: 7/24/01

Time Sampled: 125 pm

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-19B

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 107 Forrest St.

Boring Number: HA-20

Date Sampled: 7/24/01

Time Sampled: 235 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*J. Mammaloi*  
10/02/01

---

Remarks:

Sample ID: HA-20

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 107 Forrest St.

Boring Number: HA-21

Date Sampled: 7/24/01

Time Sampled: 240 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-21

## SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 107 Forrest St.

Boring Number: HA-22

Date Sampled: 7/24/01

Time Sampled: 245 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-22

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 107 Forrest St.

Boring Number: HA-23

Date Sampled: 7/24/01

Time Sampled: 250 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-23

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 107 Forrest St.

Boring Number: HA-24

Date Sampled: 7/24/01

Time Sampled: 255 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: clayey Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
*10/02/01*

---

Remarks:

Sample ID: HA-24

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 107 Forrest St.

Boring Number: HA-25

Date Sampled: 7/24/01

Time Sampled: 300 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-25



**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 107 Forrest St.

Boring Number: HA-26

Date Sampled: 7/24/01

Time Sampled: 305 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-26

# SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 107 Forrest St.

Boring Number: HA-27

Date Sampled: 7/24/01

Time Sampled: 310 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-27

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 107 Forrest St.

Boring Number: HA-28

Date Sampled: 7/24/01

Time Sampled: 315 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
*10/02/01*

---

Remarks:

Sample ID: HA-28

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 107 Forrest St.

Boring Number: HA-29

Date Sampled: 7/24/01

Time Sampled: 320 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-29

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 104 Forrest St.

Boring Number: HA-30

Date Sampled: 7/24/01

Time Sampled: 325 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: clayey Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-30

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 104 Forrest St.

Boring Number: HA-31

Date Sampled: 7/24/01

Time Sampled: 330 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: clayey Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-31

# SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 104 Forrest St.

Boring Number: HA-32

Date Sampled: 7/24/01

Time Sampled: 335 pm

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: clayey Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-32

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-33A

Date Sampled: 7/25/01

Time Sampled: 825 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: clayey Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-33A



**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-33B

Date Sampled: 7/25/01

Time Sampled: 830 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

  
10/02/01

---

Remarks:

Sample ID: HA-33B

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-34A

Date Sampled: 7/25/01

Time Sampled: 835 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*J. Hamaker*  
10/02/01

---

Remarks:

Sample ID: HA-34A

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-34B

Date Sampled: 7/25/01

Time Sampled: 840 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: sandy Silt

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-34B

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-35A

Date Sampled: 7/25/01

Time Sampled: 845 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-35A

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-35B

Date Sampled: 7/25/01

Time Sampled: 855 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

  
10/22/01

---

Remarks:

Sample ID: HA-35B

# SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-36A

Date Sampled: 7/25/01

Time Sampled: 910 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-36A

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-36B

Date Sampled: 7/25/01

Time Sampled: 915 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-36B

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-37A

Date Sampled: 7/25/01

Time Sampled: 920 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-37A



# SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-37B

Date Sampled: 7/25/01

Time Sampled: 925 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-37B

# SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

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Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-38A

Date Sampled: 7/25/01

Time Sampled: 930 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-38A

# SOIL SAMPLING LOG

3TM INTERNATIONAL

Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-38B

Date Sampled: 7/25/01

Time Sampled: 935 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-38B

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-39A

Date Sampled: 7/25/01

Time Sampled: 940 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-39A

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-39B

Date Sampled: 7/25/01

Time Sampled: 945 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/22/01

---

Remarks:

Sample ID: HA-39B

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-40A

Date Sampled: 7/25/01

Time Sampled: 950 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-40A

# SOIL SAMPLING LOG

3TM INTERNATIONAL  
Houston, Texas

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-40B

Date Sampled: 7/25/01

Time Sampled: 955 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

Remarks:

Sample ID: HA-40B

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-41A

Date Sampled: 7/25/01

Time Sampled: 1005 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date:

*T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-41A



**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-41B

Date Sampled: 7/25/01

Time Sampled: 1010 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-41B

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-42A

Date Sampled: 7/25/01

Time Sampled: 1015 am

Sampling Method: Hand Auger

Sample Depth: 6 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

Remarks:

Sample ID: HA-42A

**SOIL SAMPLING LOG**  
3TM INTERNATIONAL  
Houston, Texas

---

Project Name: Crystal Springs

Site Name: Crystal Springs, MS

Location: 100 Pearl St.

Boring Number: HA-42B

Date Sampled: 7/25/01

Time Sampled: 1020 am

Sampling Method: Hand Auger

Sample Depth: 18 inches bgs

Type of Soil: silty Sand

Sample Matrix: Soil

Sample Analysis: PCB

Sample Container: 1 - 4 oz. GC

Sample Quantity Collected: 4 oz.

Preservative Used: Ice

Environmental Supervisor: T. J. Dunnahoe

Signature / Date: *T. J. Dunnahoe*  
10/02/01

---

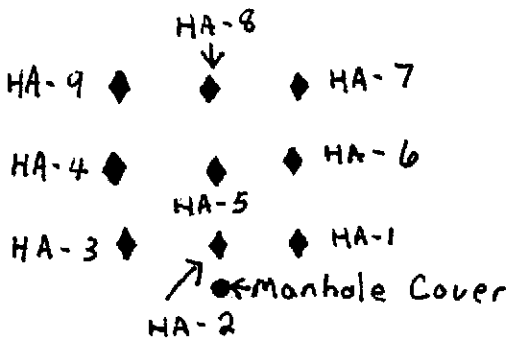
Remarks:

Sample ID: HA-42B

**Appendix B**  
**Site Sketch Forms**

108 Tucker

Trailer



Ditch

Tree Line

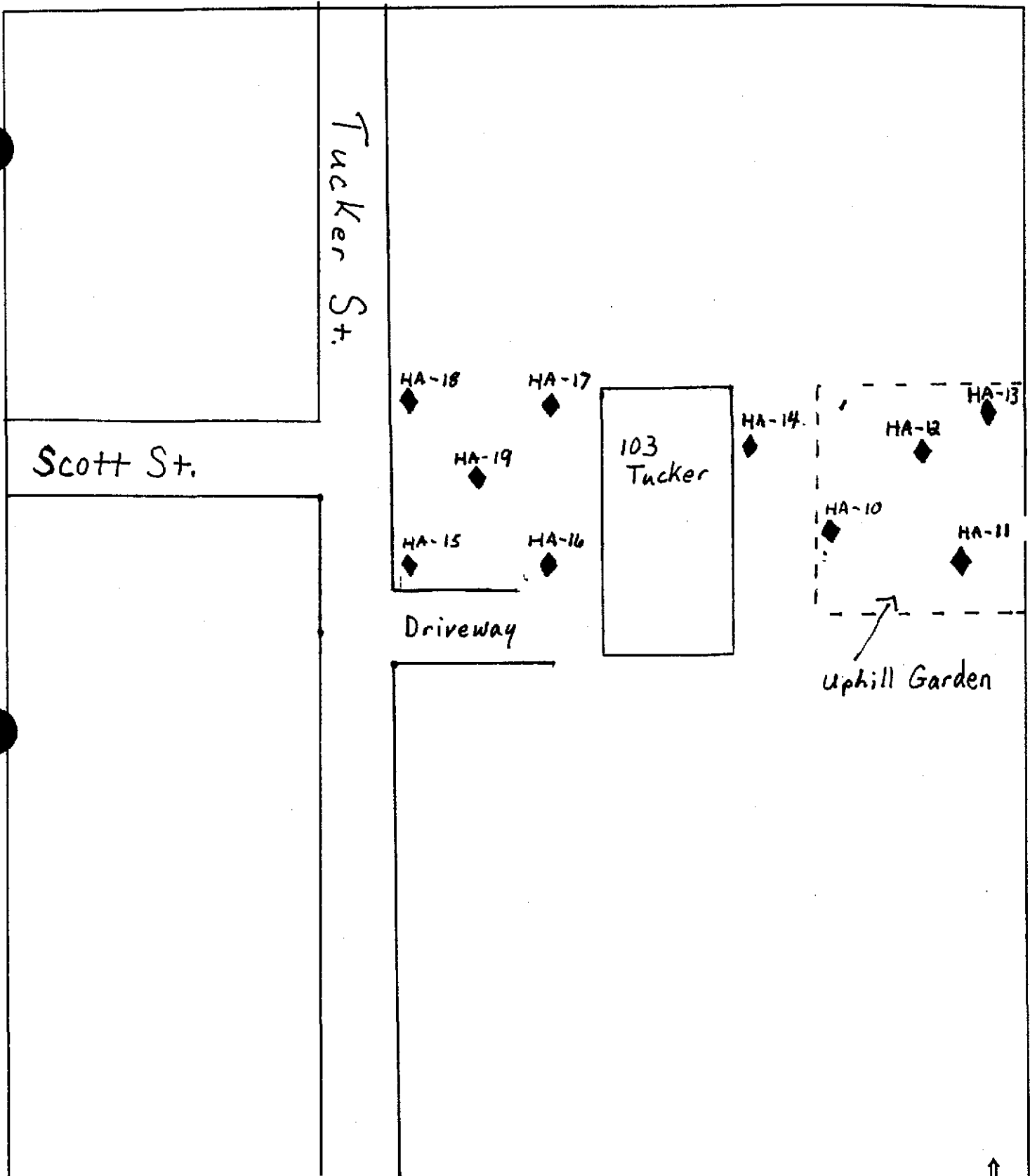
◆ Indicates Sample Collection Location

North ↑

SAMPLE NUMBER: HA-1 through HA-9  
SAMPLE COLLECTION LOCATION: 108 Tucker St.  
SAMPLE COLLECTION DATE: 7/24/01

**SITE SKETCH**  
(NOT TO SCALE)

3TM INTERNATIONAL, INC.  
Houston, Texas



◆ Indicates Sample Collection Location

North ↑

SAMPLE NUMBER: HA-10A & B through HA-19A & B  
 SAMPLe COLLECTION LOCATION: 103 Tucker  
 SAMPLe COLLECTION DATE: 7/24/01

### SITE SKETCH

(NOT TO SCALE)

3TM INTERNATIONAL, INC.  
 Houston, Texas

104  
Forrest

Forrest St.

Parking

Driveway

HA-32

Ditch

HA-30

HA-31

HA-29

HA-24

HA-20

HA-22

HA-23

107  
Forrest

HA-27

HA-25

HA-29

HA-28

HA-26

◆ Indicates Sample Collection Location

North ↑

SAMPLE NUMBER: HA-20 through HA-32  
SAMPLE COLLECTION LOCATION: 104 & 107 Forrest St.  
SAMPLE COLLECTION DATE: 7/24/01

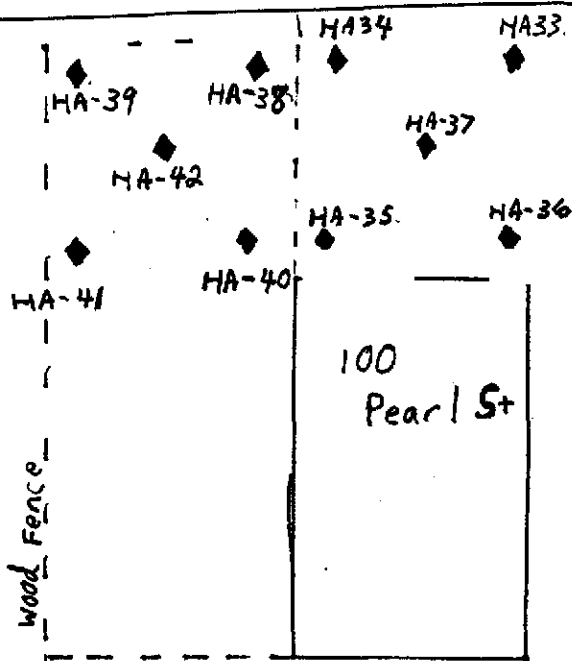
**SITE SKETCH**  
(NOT TO SCALE)

3TM INTERNATIONAL, INC.  
Houston, Texas

# Kuhlman Electric

Railroad

W. Railroad Ave.



Pearl St.

◆ Indicates Sample Collection Location

North ↑

SAMPLE NUMBER: HA-33 A & B through HA-42 A & B  
SAMPLE COLLECTION LOCATION: 100 Pearl St  
SAMPLE COLLECTION DATE: 7/25/01

## SITE SKETCH

(NOT TO SCALE)

3TM INTERNATIONAL, INC.  
Houston, Texas



**Appendix C**  
**Site Photographs**