I.1

US EPA RECORDS CENTER REGION 5
560649

SITE CHARACTERIZATION REPORT

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
BUTLER\WASHINGTON PARK SITE

June 22, 1995

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JUN 23 1995
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Project No. 3680

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1.0 INTRODUCTION

Riedel Environmental Services, Inc. (RES) was retained by the Illinois Environmental Protection Agency (IEPA) to perform a site characterization at their Butler/Washington Park Site located in Washington Park, Illinois. The purpose of the site characterization was to delineate the extent of trichloroethene (TCE), perchloroethene (PCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride in and around the site (Figure 1). For ease in discussion, the previously mentioned parameters will simply be noted as TCE throughout this report.

1.1 Scope of Work

To address the purpose of the site characterization, RES developed the following scope of work.

1.1.1 Soil Sampling (Surface)

In the proposed area of investigation (Figure 1) a sampling area, 60 by 100 feet, will be established that parallels the property boundary to the north and east. All sample locations will be measured off of a sampling boundary to relocate sample points if necessary. The initial sample location will be in the northeast corner of the sampling boundary with each additional sample location extending 20 feet due south, in a numerically ordered fashion, until the southern property boundary is reached. At this point, the sample locations will start 20 feet to the west and 10 feet to the south of the northeast corner and again, be extended every 20 feet due south. The next row of sample locations would start 40 feet west of the northeast corner and extend southward every 20 feet. This alternating pattern is continued until a total distance of 100 feet is obtained from the eastern boundary, establishing the western sampling boundary. The resulting sample locations make up a checker board pattern within a 60 by 100 feet area.

Surface debris will be cleared in any area which would interfere with sample collection. Surface debris is to be stockpiled in the southwest corner of the site (Photos # 2 and #9 in Appendix A).

Surface samples are collected with a stainless steel teaspoon and placed directly into their appropriate labeled sample jars. Gloves and teaspoons are replaced with unused ones before the collection of the next sample. All sample jars are to be completely filled in accordance with sampling protocol for volatile analysis.

1.1.2 Soil Sampling (Subsurface)

The same sample locations discussed in the previous section (1.1.1) are used for subsurface sampling. Three subsurface samples at various depths are to be taken at each sample location. Each subsurface sample is retrieved from a predetermined interval with the analyzed sample collected from the lowest depth upward.

1.1.3 Sample Identification Methodology

Sample identification is critical when compiling data during a site characterization. Sample identification will be done using the following criteria. A typical sample will have four identifying fields.

The first field identifies the site, WP, which stands for Washington Park.

The second field identifies the sample location (all uniquely identified) from which the sample originates.

The third field corresponds to the sample interval. The surface sample was given a 00 identifier and the subsurface sample identifier corresponds to the maximum depth retrieved for that individual sample.

The fourth field identifies the location of the TCE analysis. On-site laboratory analysis is identified with a 00 extender and the off-site laboratory analysis with a 01 extender.

For example: A sample labeled as WP-X104-08-00 provides the following information:

* WP - designates the site (Washington Park)
* X104 - designates the sample location
* 08 - designates the sample interval (in this case 6 - 8 feet below land surface)
* 00 - designates the sample to be analyzed on site

2.0 SUMMARY OF SITE CHARACTERIZATION ACTIVITIES

RES initially laid out a 60 by 100 feet sampling area. The perimeter of which was staked every 20 feet. From this area a total of 21 sample locations were measured out and marked with survey flags within the site boundary, sample locations X101-X121. At later dates, as requested by IEPA, an additional 20 sample locations were measured out and flagged for sampling, sample locations X122-X141 (Figure 2).

Surface sampling was completed prior to collection of subsurface samples. Subsurface soil samples from sample locations X101-X121 were collected on April 17 and 18, 1995 and sample locations X122-X132 were collected on April 22, 1995 utilizing Geo-probe equipment at two foot intervals. Geo-probe equipment allows for discrete interval sampling at depth. If an obstruction was encountered during sampler advancement, the sampler was off set and readvanced. If the obstruction was still encountered, a soil sample was not collected at that interval or at subsequent intervals for that location. This is noted in the boring logs (Appendix B).

Subsurface soil samples from sample locations X133-X138 were collected on May 25, 1995 utilizing Riedel Environmental's Dig-R-Mobile. The Dig-R-Mobile also allows for discrete interval sampling at depth by advancing a sample collection tube after drilling out a hole at a predetermined depth. Subsurface soil samples from sample locations X139-X141 were collected on June 8, 1995 by a IEPA representative.

2.1 Soil Sampling (Surface)

Surface soil samples were collected from the first 21 sample locations, X101-X121 (Figure 1). Surface samples were not collected at the additional 20 sample locations, X122-X141, as requested by IEPA. Approximately 10 spoonfuls of soil were taken from each sample location reaching a depth of 3 - 4 inches below ground surface (Photo #2). Spoonfuls of soil were placed directly into the appropriate labeled sample jar until the jar was completely filled. The lid was immediately secured on the jar and the collection time documented. The sample jar was then placed into a zip lock bag and stored on ice in a sample cooler.

2.2 Soil Sampling (Subsurface)

Subsurface soil sampling was performed at 41 sample locations for a total of 101 collected subsurface samples (Photos #4 and #14). Depth of investigation varied by sample location and was dependent upon the depth of impermeable layers, groundwater, and previous analytical results. By the request of Mr. Tom Miller, the IEPA representative, only two subsurface samples were collected from sample locations X115-X121 and X133-X138. Only one subsurface sample was collected, by a IEPA representative, for sample locations X139-X141, and sample location X126 was not sampled. The maximum depth investigated was 11 feet below ground surface. The sample intervals for each sample location, collected by RES, are noted on the boring logs in Appendix B.

Due to the matrix of the subsurface samples, mostly clay, the samples were placed into their appropriately labeled sample jars by hand. To avoid cross contamination, gloves were replaced with a unused pair before the next sample was handled. The sample collection time was recorded in the boring logs, Appendix B, and samples placed into zip lock bags and stored on ice. Each boring hole was back-filled with bentonite before work commenced on the next sample location (Photo #5).

2.3 On Site TCE Analysis

On site TCE analysis was performed at the IEPA's Collinsville office utilizing Geo Environmental's mobile laboratory (Photos #16, #17, and #18). To reduce the number of samples analyzed, the samples in and around the area of concern were analyzed first. Subsequent laboratory analysis was then performed on samples adjacent to soil samples that exhibited elevated concentrations of TCE. IEPA was responsible for

selecting soil samples for analysis. Out of the 122 samples collected for analysis, 63 were analyzed on site. Samples were analyzed by EPA Method 8010. On site laboratory results are provided in Appendix C.

2.4 Off Site TCE Analysis

Off site TCE analysis was performed by a IEPA approved laboratory. Tom Miller, of IEPA, handled the samples to be sent to their approved off site laboratory for analysis by the same method (EPA Method 8010). A total of 16 samples, out of the 122 samples collected, were analyzed by the IEPA laboratory. Off site laboratory results are provided in Appendix D.

2.5 Quality Assurance/Quality Control Sampling

Eight sample duplicates were collected for IEPA to be analyzed at their off site laboratory. The duplicate was a second sample taken from the original soil sample. It represents the ability of the laboratories, on site and off site, to reproduce the analytical procedures, therefore, obtaining varifiable results. Duplicates were taken at the 10% level for the original scope of work for the on-site QA/QC effort. The sample duplicates, handled by IEPA, were not analyzed.

3.0 RESULTS OF THE CHARACTERIZATION ACTIVITIES

3.1 Soil Sampling Results

Soil TCE analytical results are represented on Figures 3-7. These figures were prepared from on site and off site EPA Method 8010 analysis. A listing of soil sample results used to prepare the figures is presented in Tables 1 through 7. Each table represents a sample interval for the area under investigation. Copies of the on and off site analytical report sheets are provided in Appendix C and Appendix D, respectively.

Each sample interval is represented by one figure. TCE analytical results are represented by two colors. Samples with one or more parameter concentrations greater than or equal to the clean up level concentration or samples in which the analytical reporting limits were higher than the clean up levels are colored red. Samples with the parameter concentrations less than the clean up level concentration are colored blue. Samples that were not sampled or not analyzed are uncolored.

From the analytical results, two areas were defined. The primary area is comprised of the soils exhibiting TCE concentrations above the IEPA's clean up objective and lower than the land ban limit (6 parts per million). The second area of concern is an area, within the primary area, which exhibits elevated concentrations of TCE above the land ban limit.

The parameters to be analyzed and their clean up level concentrations were supplied by the IEPA. The parameters, detection limits, and clean up levels are provided in Appendix E.

4.0 DISCUSSION OF RESULTS

TCE analytical results have indicated impacted soil, TCE concentrations above IEPA's clean up objectives, outside the original designated area. The horizontal and vertical extent of TCE impacted soil has been presented in figures and tables in the previous sections. RES has estimated the volumes of TCE impacted soil from the available data.

4.1 Volume of Impacted Soil

RES estimated the volumes of TCE impacted soil by considering the sample locations to be the center of a 20 by 20 feet area. In the case of the sample location having one or more perimeters above the clean up level or analytical reporting limits higher than the clean up level, the 20 by 20 feet area of that sample location, from the surface to 10 feet in depth, is included in the estimated volume.

Not enough analytical data was collected to define the perimeter of the TCE impacted soil. This could effect the calculated volume of TCE impacted soil. RES estimates 2,069 cubic yards of in place TCE impacted soil for the primary area consisting of TCE concentrations above the IEPA's clean up objective but below the land ban limit. And 5 cubic yards of in place TCE impacted soil exhibiting concentrations above the land ban limit. The IEPA is considering the impacted soil to be an F002 listed solvent waste from the site history provided in Appendix F.

Table 1
Surface (00) TCE Soil Analytical Results
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Sample I.D. Number	SW 846 Method 8010 Analytical Results (ug/kg)				
	Vinyl Chloride	Trans - 1, 2 - DCE	CIS - 1, 2 - DCE	TCE	PCE
WP-X101-00-00	BRL	BRL	217	BRL	7.1
WP-X102-00-00	BRL	BRL	BRL	BRL	3.0
WP-X103-00-00	BRL	BRL	BRL	1.3	4.7
WP-X104-00-00	BRL	BRL	BRL	BRL	1.2
WP-X105-00-00	BRL	29	1100	BRL	11
WP-X106-00-00	BRL	BRL	BRL	BRL	16
WP-X107-00-00	BRL	BRL	BRL	BRL	30
WP-X108-00-00	BRL	BRL	1700	260	730
WP-X109-00-00	BRL	BRL	BRL	BRL	3.0
WP-X110-00-00	BRL	BRL	5.2	BRL	BRL
WP-X111-00-00	BRL	BRL	7.4	13	70
WP-X112-00-00	BRL	BRL	BRL	BRL	7.5
WP-X113-00-00	BRL	BRL	BRL	BRL	39
WP-X114-00-00	BRL	BRL	BRL	BRL	BRL
Clean Up Objectives	**10**	**500**	**200**	**40**	**40**

Notes:

All analytical results are reported in micrograms per kilograms (ug/kg) or parts per billion.
Sample I.D. Number assigned in accordance with the sample identification methodology described in Section 1.1.3.
DCE: Dichloroethene
TCE: Trichloroethene
PCE: Tetrachloroethene
BRL: Below Reporting Limits
Some analytical reporting limits, provided in laboratory report sheets, are higher than IEPA's cleanup objectives.
Laboratory report sheets provided in Appendix C for the on-site mobile lab analysis.

Table 2
One Foot to Three Foot (03) TCE Soil Analytical Results
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Sample I.D. Number	SW 846 Method 8010 Analytical Results (ug/kg)				
	Vinyl Chloride	Trans - 1, 2 - DCE	CIS - 1, 2 - DCE	TCE	PCE
WP-X101-03-00	BRL	18	710	BRL	1.2
WP-X102-03-00	BRL	BRL	BRL	BRL	23
WP-X103-03-00	BRL	BRL	BRL	5.4	19
WP-X104-03-00	BRL	BRL	BRL	BRL	23
WP-X105-03-00	BRL	190	7,200	6,400	37,000
WP-X106-03-00	BRL	BRL	BRL	BRL	10,000
WP-X107-03-00	BRL	BRL	BRL	50	900
WP-X108-03-00	BRL	BRL	BRL	BRL	150
WP-X109-03-00	BRL	BRL	BRL	BRL	39
WP-X110-03-00	BRL	BRL	BRL	BRL	6.3
WP-X111-03-00	BRL	BRL	BRL	BRL	BRL
WP-X112-03-00	BRL	BRL	BRL	BRL	93
WP-X113-03-00	BRL	BRL	BRL	BRL	180
WP-X114-03-00	BRL	BRL	BRL	BRL	BRL
WP-X115-03-00	BRL	BRL	BRL	BRL	27
WP-X116-03-00	BRL	BRL	BRL	BRL	71
WP-X117-03-00	BRL	BRL	180	BRL	28
WP-X118-03-00	BRL	BRL	BRL	BRL	BRL
WP-X119-03-00	BRL	BRL	BRL	BRL	BRL
WP-X120-03-00	BRL	BRL	BRL	BRL	BRL
WP-X121-03-00	BRL	BRL	BRL	BRL	BRL
WP-X122-03-01	BRL	BRL	BRL	BRL	BRL
WP-X123-03-01	BRL	BRL	BRL	BRL	BRL
WP-X125-03-01	BRL	BRL	BRL	BRL	BRL

Table 2
One Foot to Three Foot (03) TCE Soil Analytical Results
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Sample I.D. Number	SW 846 Method 8010 Analytical Results (ug/kg)				
	Vinyl Chloride	Trans - 1, 2 - DCE	CIS - 1, 2 - DCE	TCE	PCE
WP-X127-03-00	BRL	BRL	BRL	BRL	BRL
WP-X128-03-00	BRL	BRL	6.2	16	78
WP-X129-03-00	BRL	BRL	BRL	BRL	BRL
WP-X130-03-00	BRL	BRL	BRL	BRL	12
WP-X131-03-00	BRL	BRL	BRL	BRL	BRL
WP-X132-03-00	BRL	BRL	BRL	BRL	BRL
Clean Up Objectives	**10**	**500**	**200**	**40**	**40**

Notes:

All analytical results are reported in micrograms per kilograms (ug/kg) or parts per billion.
Sample I.D. Number assigned in accordance with the sample identification methodology described in Section 1.1.3.
DCE: Dichloroethene
TCE: Trichloroethene
PCE: Tetrachloroethene
BRL: Below Reporting Limits
Some analytical reporting limits, provided in laboratory report sheets, are higher than IEPA's cleanup objectives.
Laboratory report sheets provided in Appendix C for the on-site mobile lab analysis and in Appendix D for off-site lab analysis.

Table 3
Two Foot to Three Foot (03) TCE Soil Analytical Results
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Sample I.D. Number	SW 846 Method 8010 Analytical Results (ug/kg)			
	Vinyl Chloride	1, 2 - DCE	TCE	PCE
WP-X134-03-01	BRL	2800	BRL	BRL
WP-X136-03-01	BRL	270	7	18
WP-X137-03-01	BRL	57	120	640
WP-X139-03-01	BRL	320	BRL	BRL
WP-X140-03-01	BRL	920	700	2500
WP-X141-03-01	BRL	700	1200	7000
Clean Up Objectives	**10**	**N/A**	**40**	**40**

Notes:

All analytical results are reported in micrograms per kilograms (ug/kg) or parts per billion.
Sample I.D. Number assigned in accordance with the sample identification methodology described in Section 1.1.3.
DCE: Dichloroethene
TCE: Trichloroethene
PCE: Tetrachloroethene
BRL: Below Reporting Limits
N/A: Not Applicable
Some analytical reporting limits, provided in laboratory report sheets, are higher than IEPA's cleanup objectives.
Laboratory report sheets provided in Appendix D for off-site lab analysis.

Table 4
Four Foot to Five Foot (05) TCE Soil Analytical Results
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Sample I.D. Number	SW 846 Method 8010 Analytical Results (ug/kg)			
	Vinyl Chloride	1, 2 - DCE	TCE	PCE
WP-X134-05-01	BRL	2200	95	240
WP-X136-05-01	BRL	520	59	44
WP-X137-05-01	BRL	280	270	1200
Clean Up Objectives	**10**	**N/A**	**40**	**40**

Notes:

All analytical results are reported in micrograms per kilograms (ug/kg) or part per billion.
Sample I.D. Number assigned in accordance with the sample identification methodology described in Section 1.1.3.
DCE: Dichloroethene
TCE: Trichloroethene
PCE: Tetrachloroethene
BRL: Below Reporting Limits
N/A: Not Applicable
Some analytical reporting limits, provided in laboratory report sheets, are higher than IEPA's cleanup objectives.
Laboratory report sheets provided in Appendix D for off-site lab analysis.

Table 5
Four Foot to Six Foot (06) TCE Soil Analytical Results
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Sample I.D. Number	SW 846 Method 8010 Analytical Results (ug/kg)				
	Vinyl Chloride	Trans - 1, 2 - DCE	CIS - 1, 2 - DCE	TCE	PCE
WP-X101-06-00	BRL	BRL	480	BRL	BRL
WP-X105-06-00	BRL	66	4,800	3,200	1,600
WP-X106-06-00	BRL	BRL	BRL	BRL	80
WP-X107-06-00	BRL	BRL	BRL	13	1,800
WP-X108-06-00	BRL	BRL	BRL	20	170
WP-X109-06-00	BRL	BRL	BRL	BRL	190
WP-X112-06-00	BRL	BRL	BRL	BRL	57
WP-X113-06-00	BRL	BRL	BRL	11	130
WP-X115-06-00	BRL	BRL	BRL	BRL	40
WP-X116-06-00	BRL	BRL	BRL	BRL	33
WP-X117-06-01	BRL	BRL	BRL	BRL	11
WP-X122-06-00	BRL	BRL	BRL	BRL	BRL
WP-X123-06-00	BRL	BRL	BRL	BRL	BRL
WP-X124-06-00	BRL	BRL	15	14	37
WP-X125-06-00	BRL	BRL	BRL	BRL	12
WP-X128-06-01	BRL	BRL	BRL	BRL	41
WP-X130-06-01	BRL	BRL	BRL	BRL	10
Clean Up Objectives	**10**	**500**	**200**	**40**	**40**

Notes:

All analytical results are reported in micrograms per kilograms (ug/kg) or parts per billion.
Sample I.D. Number assigned in accordance with the sample identification methodology described in Section 1.1.3.
DCE: Dichloroethene
TCE: Trichloroethene
PCE: Tetrachloroethene
BRL: Below Reporting Limits
Some analytical reporting limits, provided in laboratory report sheets, are higher than IEPA's cleanup objectives.
Laboratory report sheets provided in Appendix C for the on-site mobile lab analysis and in Appendix D for off-site lab analysis.

Table 6
Six Foot to Eight Foot (08) TCE Soil Analytical Results
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Sample I.D. Number	SW 846 Method 8010 Analytical Results (ug/kg)				
	Vinyl Chloride	Trans - 1, 2 - DCE	CIS - 1, 2 - DCE	TCE	PCE
WP-X105-08-00	BRL	BRL	950	1,700	1,100
WP-X106-08-00	BRL	BRL	BRL	34	330
WP-X107-08-00	BRL	BRL	BRL	18	130
WP-X108-08-00	BRL	BRL	BRL	27	200
WP-X109-08-00	BRL	BRL	BRL	BRL	300
WP-X112-08-00	BRL	BRL	BRL	BRL	30
WP-X113-08-00	BRL	BRL	BRL	BRL	BRL
Clean Up Objectives	**10**	**500**	**200**	**40**	**40**

Notes:

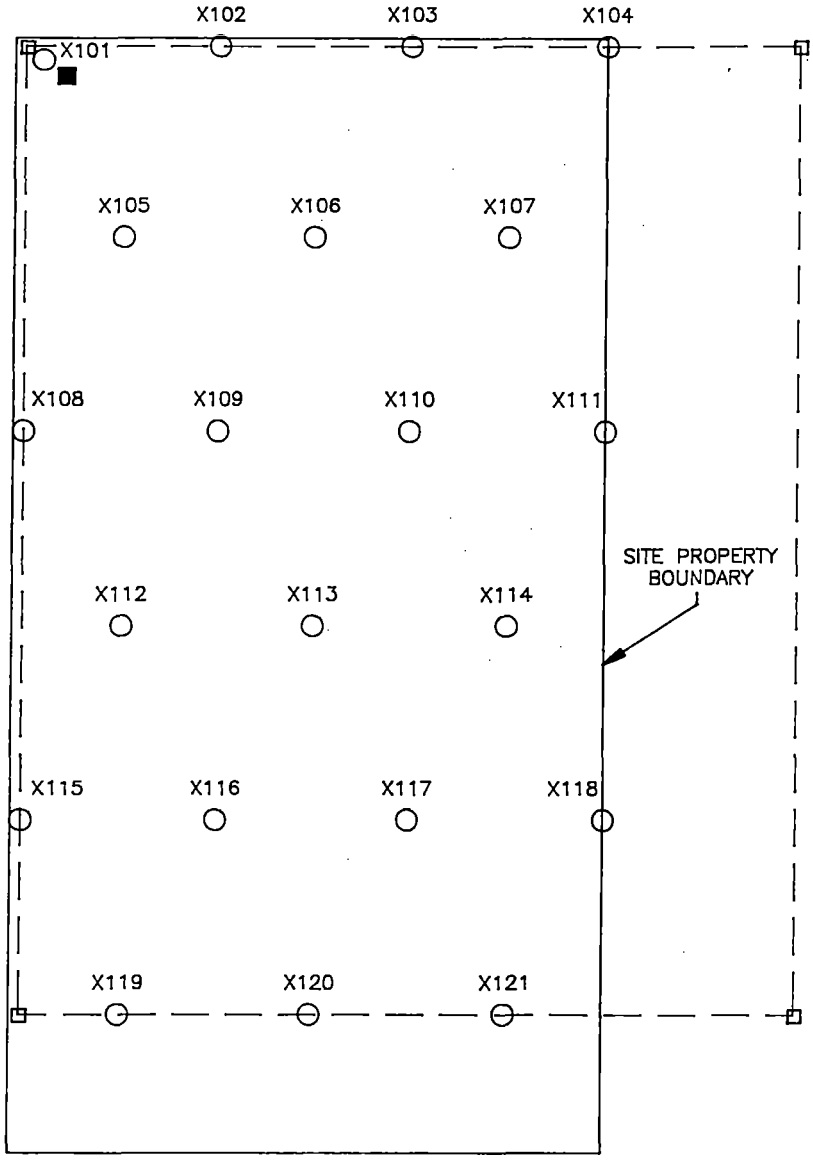
All analytical results are reported in micrograms per kilograms (ug/kg) or parts per billion.
Sample I.D. Number assigned in accordance with the sample identification methodology described in Section 1.1.3.
DCE: Dichloroethene
TCE: Trichloroethene
PCE: Tetrachloroethene
BRL: Below Reporting Limits
Some analytical reporting limits, provided in laboratory report sheets, are higher than IEPA's cleanup objectives.
Laboratory report sheets provided in Appendix C for the on-site mobile lab analysis.

Table 7
Nine Foot to Eleven Foot (11) TCE Soil Analytical Results
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Sample I.D. Number	SW 846 Method 8010 Analytical Results (ug/kg)				
	Vinyl Chloride	Trans - 1, 2 - DCE	CIS - 1, 2 - DCE	TCE	PCE
WP-X101-11-00	BRL	BRL	180	15	21
WP-X124-11-01	BRL	BRL	BRL	BRL	BRL
Clean Up Objectives	**10**	**500**	**200**	**40**	**40**

Notes:

All analytical results are reported in micrograms per kilograms (ug/kg) or parts per billion.
Sample I.D. Number assigned in accordance with the sample identification methodology described in Section 1.1.3.
DCE: Dichloroethene
TCE: Trichloroethene
PCE: Tetrachloroethene
BRL: Below Reporting Limits
Some analytical reporting limits, provided in laboratory report sheets, are higher than IEPA's cleanup objectives.
Laboratory report sheets provided in Appendix C for the on-site mobile lab analysis and in Appendix D for off-site lab analysis.



LEGEND

- MEASURED SAMPLING BOUNDARY
- STAKED CORNERS OF MEASURED SAMPLING BOUNDARY
- NUMBERED SAMPLE LOCATIONS
- LOCATION OF CONTINUOUS BORING TO GROUND WATER

NOTE:
ALL SAMPLE LOCATIONS WERE MEASURED OFF OF THE SAMPLING BOUNDARY.

0 20 40
APPROXIMATE SCALE IN FEET

IEPA – WASHINGTON PARK
EAST ST. LOUIS, ILLINOIS

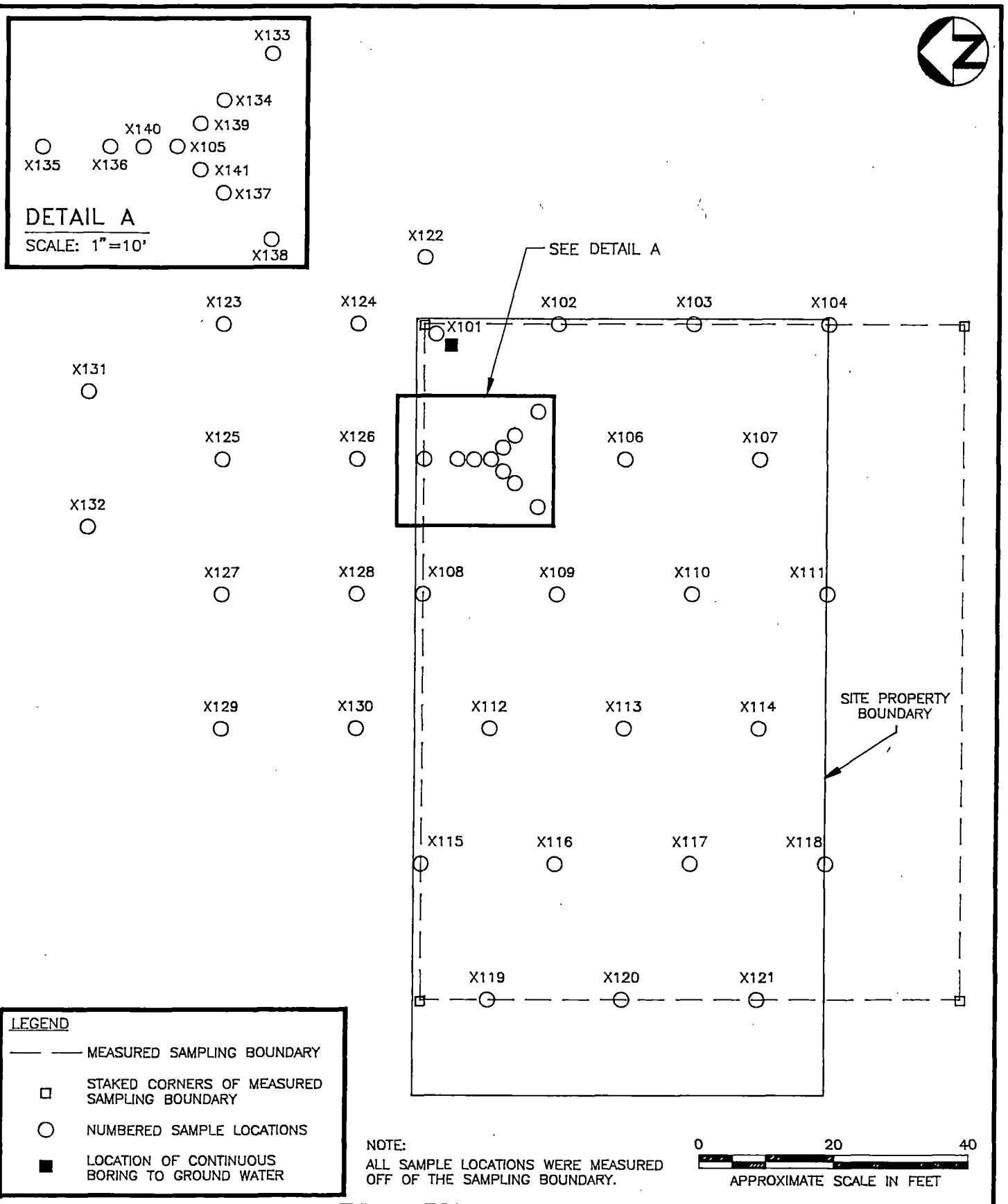
PROJECT NO. 3680

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005

INITIAL SITE BOUNDARIES WITH NUMBERED SAMPLE LOCATIONS

FIGURE 1

ACAD FILE: \DWGS\3680-1 DATE: 6/19/95



IEPA – WASHINGTON PARK
EAST ST. LOUIS, ILLINOIS

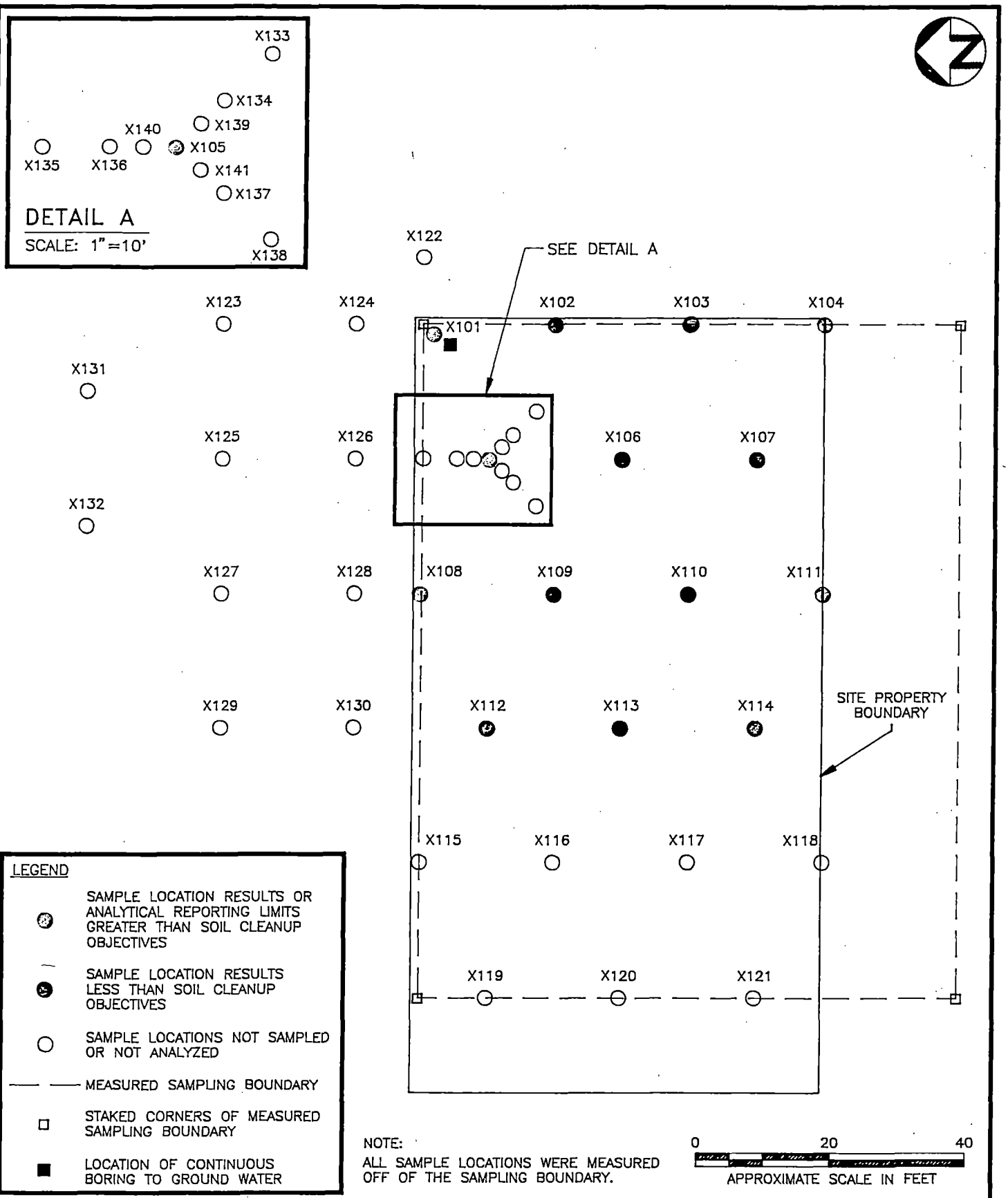
PROJECT NO. 3680

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005

FINAL SITE BOUNDARIES WITH NUMBERED SAMPLE LOCATIONS

FIGURE 2

ACAD FILE: 680\3680-2 DATE: 6/19/95



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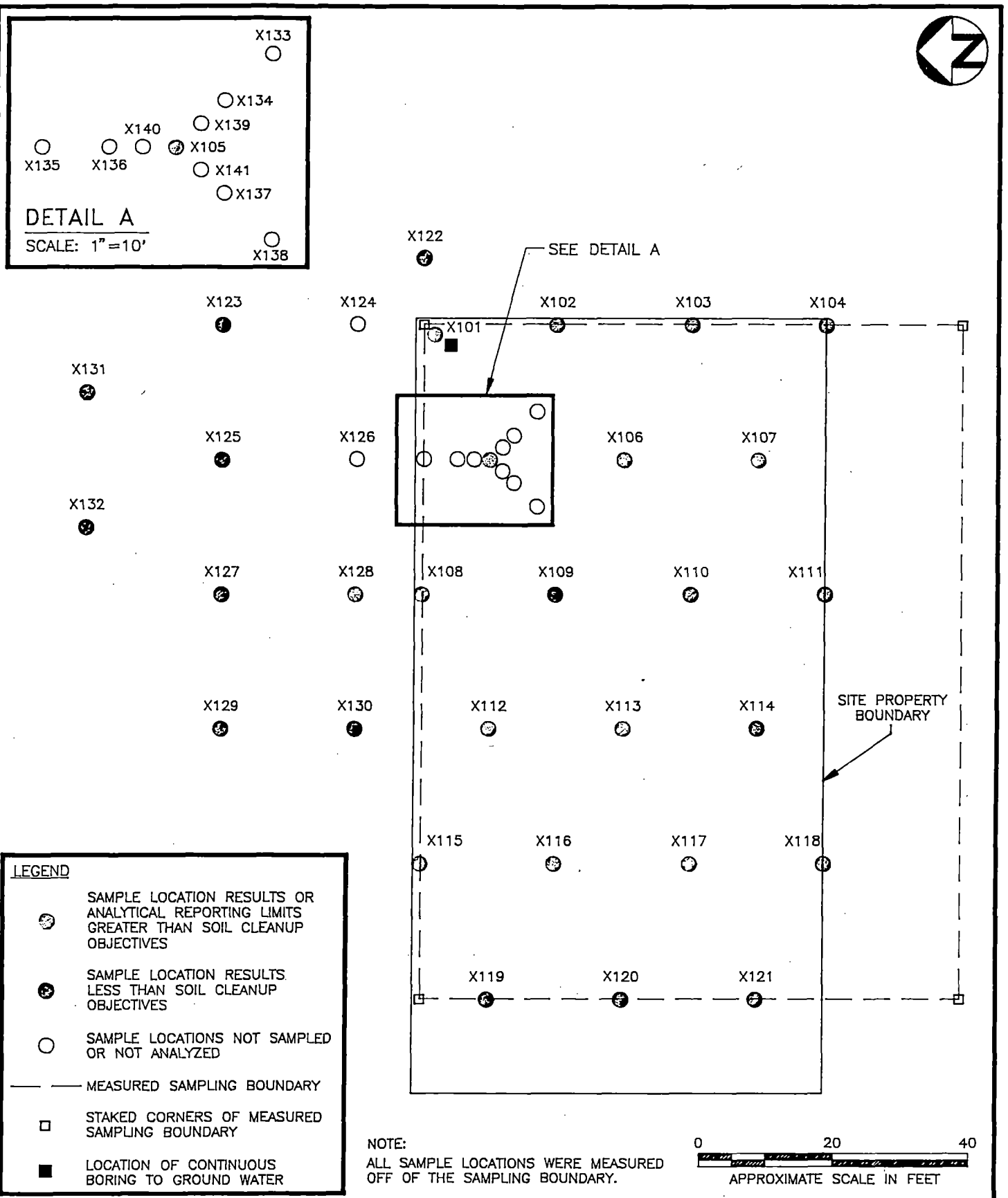
PROJECT NO. 3680

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005

SURFACE (00)
TCE SOIL ANALYTICAL RESULTS

FIGURE 3

ACAD FILE: \DWGS\ 3680-00 DATE: 5/9/95



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ST. LOUIS DISTRICT
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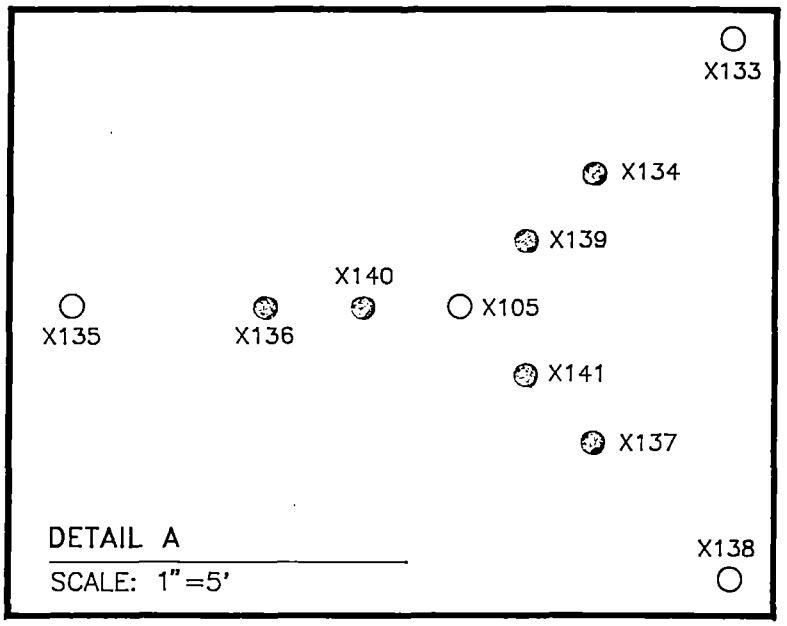
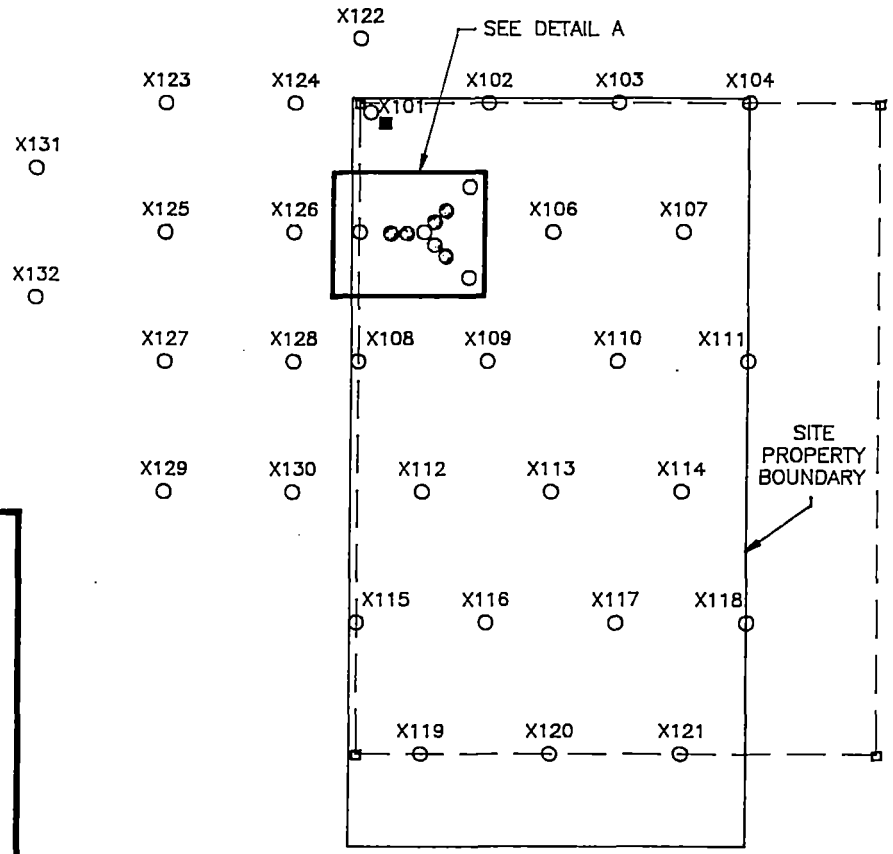
CHESTERFIELD, MISSOURI 63005

ONE FOOT TO THREE FOOT (03)
TCE SOIL ANALYTICAL RESULTS

FIGURE 4

ACAD FILE: \DWGS\3680-03 DATE: 6/19/95





LEGEND

- SAMPLE LOCATION RESULTS OR ANALYTICAL REPORTING LIMITS GREATER THAN SOIL CLEANUP OBJECTIVES
- SAMPLE LOCATION RESULTS LESS THAN SOIL CLEANUP OBJECTIVES
- SAMPLE LOCATIONS NOT SAMPLED OR NOT ANALYZED
- MEASURED SAMPLING BOUNDARY
- STAKED CORNERS OF MEASURED SAMPLING BOUNDARY
- LOCATION OF CONTINUOUS BORING TO GROUND WATER

NOTE:
ALL SAMPLE LOCATIONS WERE MEASURED OFF OF THE SAMPLING BOUNDARY.

0 30 60
APPROXIMATE SCALE IN FEET

IEPA – WASHINGTON PARK
EAST ST. LOUIS, ILLINOIS

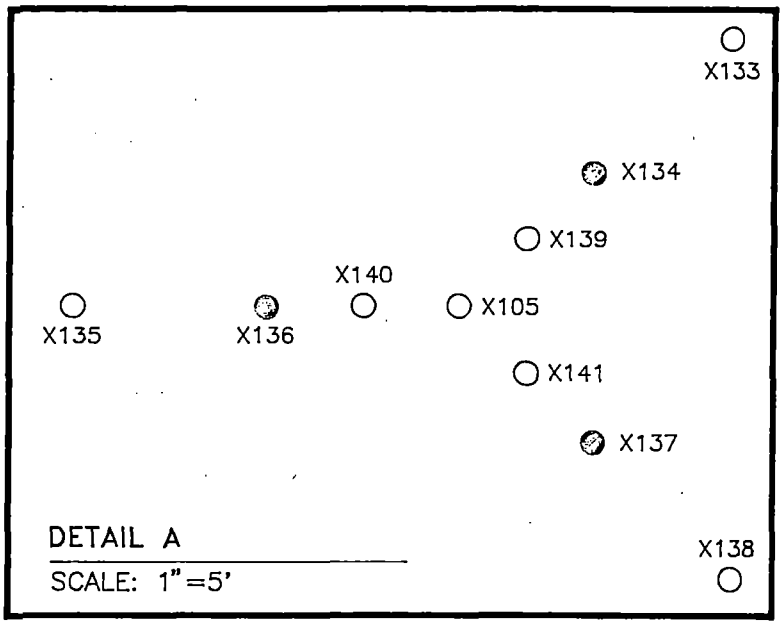
PROJECT NO. 3680

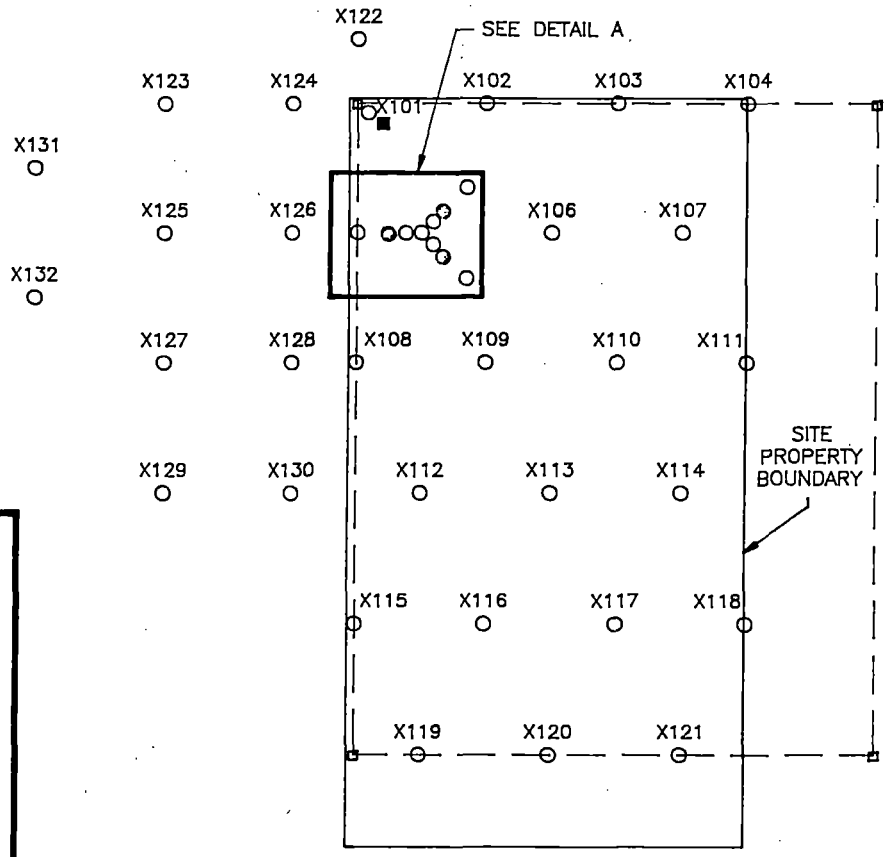
RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005

TWO FOOT TO THREE FOOT (03)
TCE SOIL ANALYTICAL RESULTS

FIGURE 5

ACAD FILE: 880\3680-2-3 DATE: 6/19/95





LEGEND

- SAMPLE LOCATION RESULTS OR ANALYTICAL REPORTING LIMITS GREATER THAN SOIL CLEANUP OBJECTIVES
- SAMPLE LOCATION RESULTS LESS THAN SOIL CLEANUP OBJECTIVES
- SAMPLE LOCATIONS NOT SAMPLED OR NOT ANALYZED
- MEASURED SAMPLING BOUNDARY
- STAKED CORNERS OF MEASURED SAMPLING BOUNDARY
- LOCATION OF CONTINUOUS BORING TO GROUND WATER

NOTE:
ALL SAMPLE LOCATIONS WERE MEASURED OFF OF THE SAMPLING BOUNDARY.

0 30 60
APPROXIMATE SCALE IN FEET

IEPA – WASHINGTON PARK
EAST ST. LOUIS, ILLINOIS

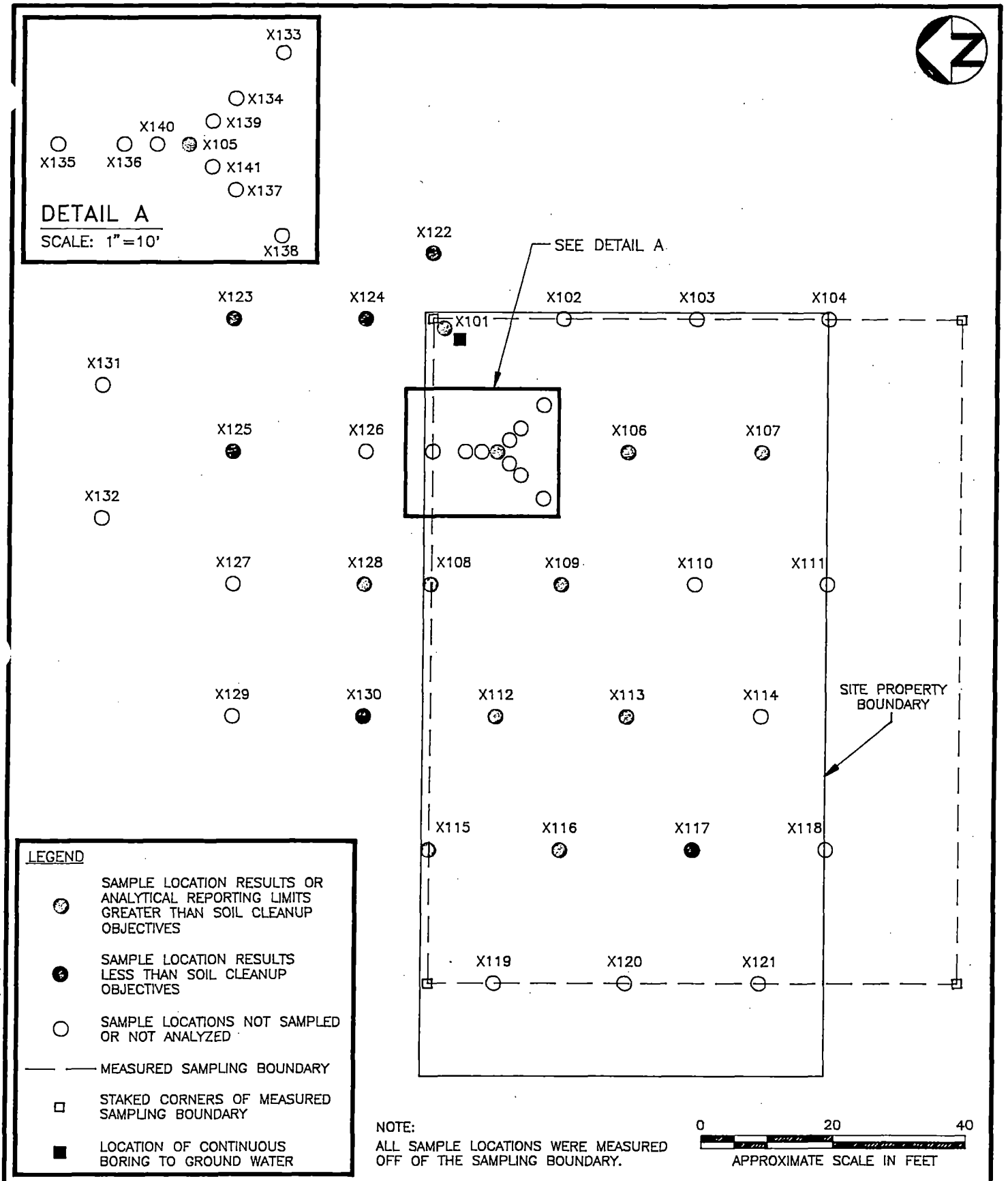
PROJECT NO. 3680

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005

FOUR FOOT TO FIVE FOOT (05)
TCE SOIL ANALYTICAL RESULTS

FIGURE 6

ACAD FILE: 680\3680-2-3 DATE: 6/19/95



DATE: 6/19/95

680\3680-06

ACAD FILE:

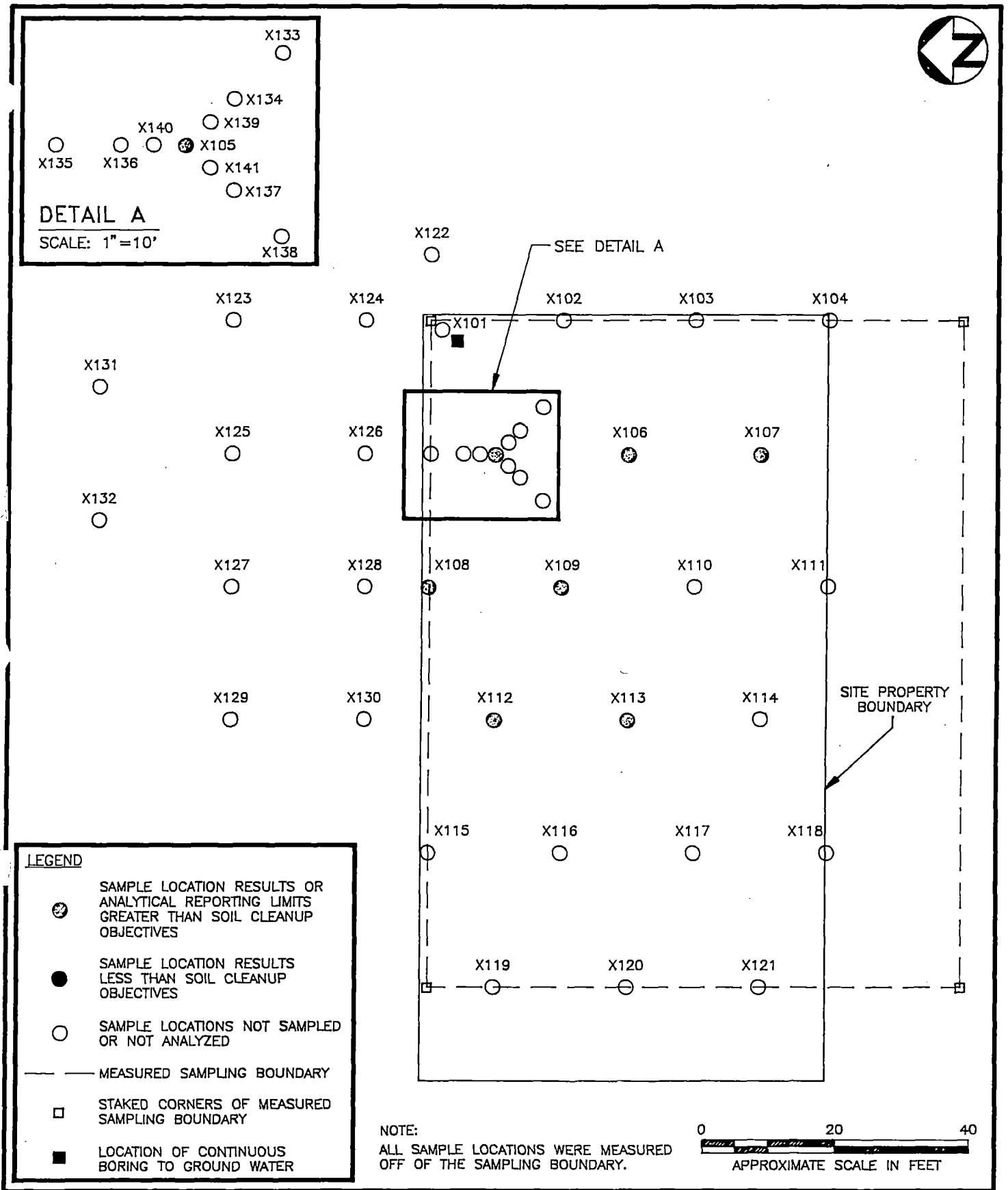
IEPA – WASHINGTON PARK
EAST ST. LOUIS, ILLINOIS

PROJECT NO. 3680

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005

FOUR FOOT TO SIX FOOT (06)
TCE SOIL ANALYTICAL RESULTS

FIGURE 7



DATE: 6/19/95

ACAD FILE: 3680\3680-09

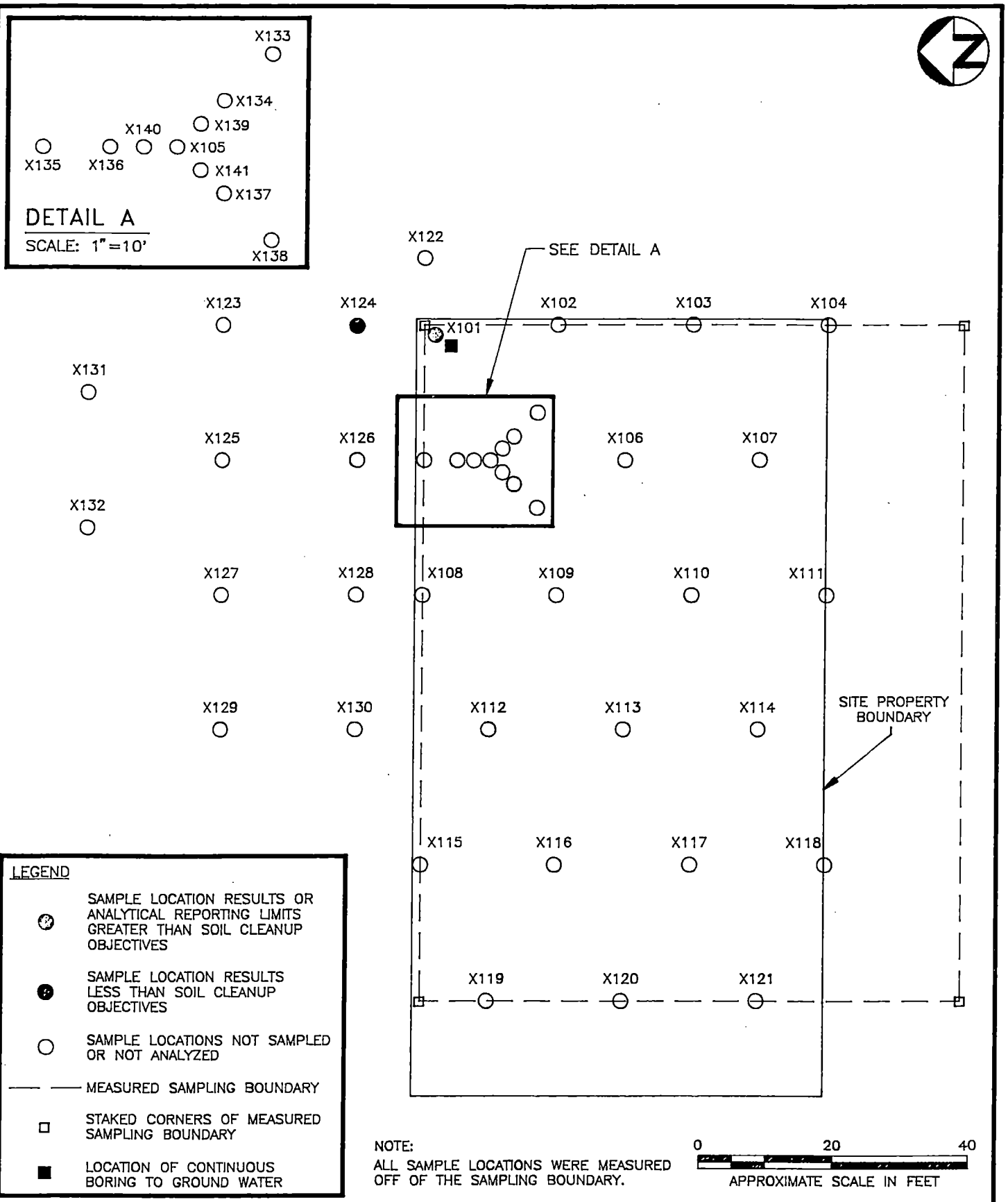
IEPA – WASHINGTON PARK
EAST ST. LOUIS, ILLINOIS

PROJECT NO. 3680

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005

SIX FOOT TO EIGHT FOOT (08)
TCE SOIL ANALYTICAL RESULTS

FIGURE 8



ACAD FILE: 680\3680-11 DATE: 6/19/95

IEPA – WASHINGTON PARK
EAST ST. LOUIS, ILLINOIS

PROJECT NO. 3680

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005

NINE FOOT TO ELEVEN FOOT (11)
TCE SOIL ANALYTICAL RESULTS

FIGURE 9

APPENDIX A

PHOTO LOG
BUTLER\WASHINGTON PARK SITE

PHOTO LOG
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

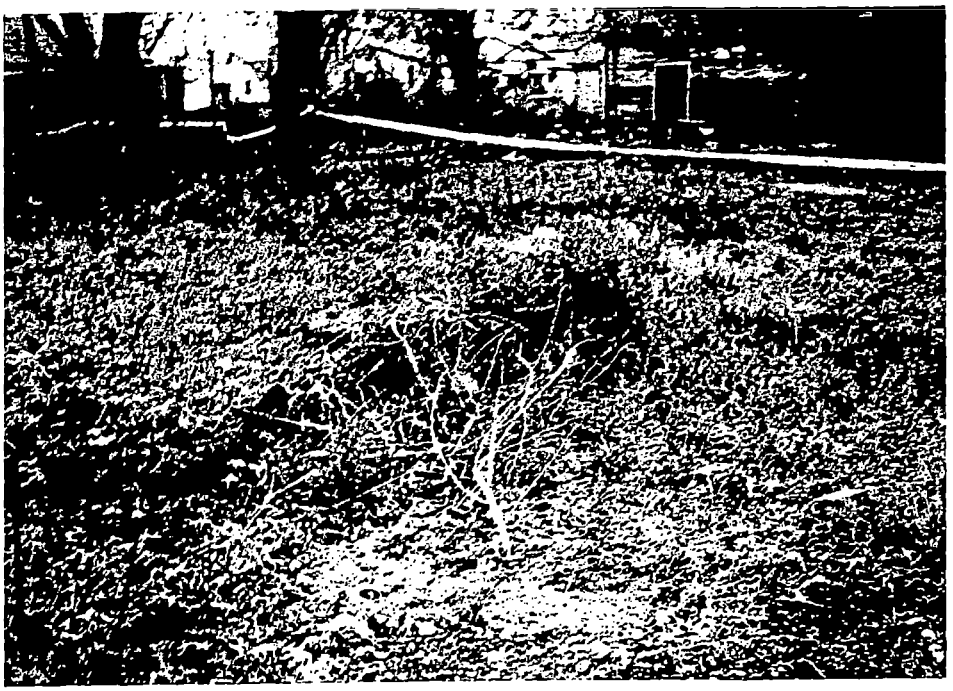


Photo #1
Debris pile in the center of the site consisting of metal piping and sheeting.
Date taken: 04/18/95
Taken by: Leston Porter

Photo #2
Debris stockpiled in the southwest corner of the site. Surface sample being collected by Geo Environmental worker.
Date taken: 04/18/95
Taken by: Leston Porter

PHOTO LOG
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Photo #3
Northeast corner of the site from which the debris was removed. Geo-probe unit is set up at first sampling location, X101.
Date taken: 04/18/95
Taken by: Leston Porter

Photo #4
Soil sample being retrieved by Geo Environmental's hydraulically advanced sampling tubes.
Date taken: 04/18/95
Taken by: Leston Porter

PHOTO LOG
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

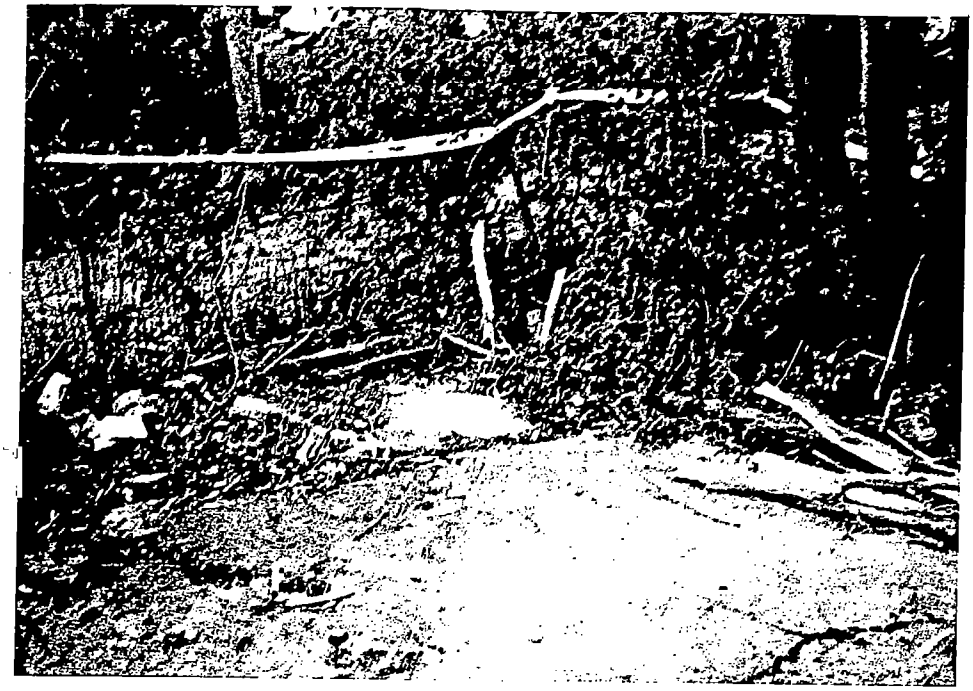


Photo #5
Southeast corner of site, sample location X104, after being filled with bentonite.
Date taken: 04/18/95
Taken by: Leston Porter

Photo #6
Northwest corner of site. Geo Environmental worker returning with a subsurface sample.
Date taken: 04/19/95
Taken by: Leston Porter

PHOTO LOG
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

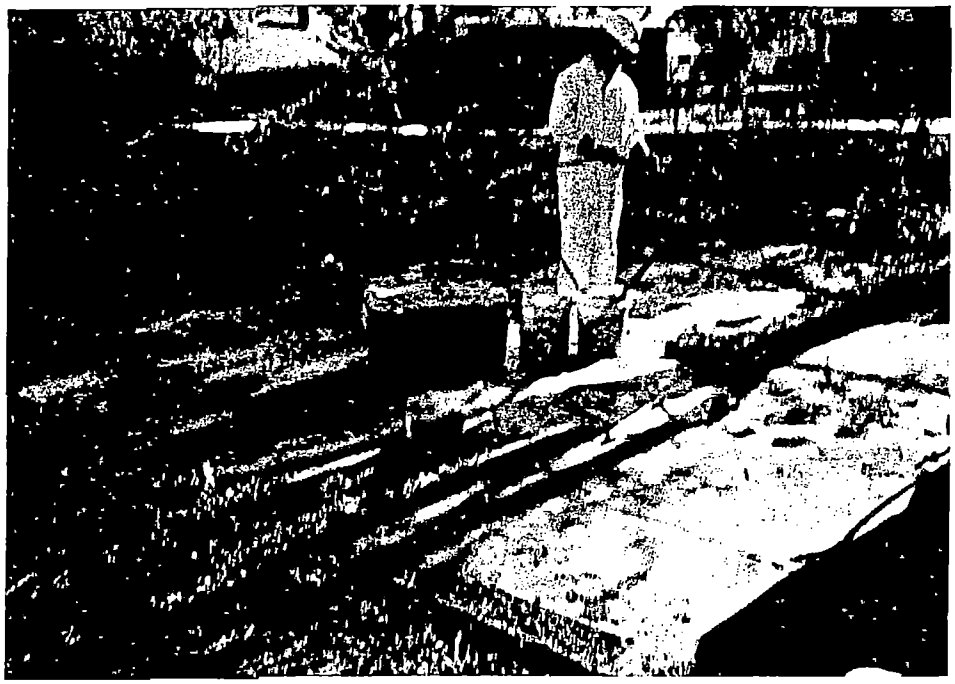


Photo #7
Geo Environmental worker decontaminating sampling equipment before next use.
Date taken: 04/19/95
Taken by: Leston Porter

Photo #8
Geo Environmental worker decontaminating sampling equipment before next use.
Date taken: 04/19/95
Taken by: Leston Porter

PHOTO LOG
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Photo #9
View of southwest corner of site, showing stockpiled debris. Sample locations are marked with red survey flags.
Date taken: 04/19/95
Taken by: Leston Porter

Photo #10
View of northwest corner of site. Red survey flags mark the sample locations.
Date taken: 04/19/95
Taken by: Leston Porter

PHOTO LOG
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Photo #11
View of northeast corner of site. Area from which the debris was cleared for the Geo-probe unit.
Date taken: 04/19/95
Taken by: Leston Porter

Photo #12
View of the east side of the site showing drum staging area.
Date taken: 04/19/95
Taken by: Leston Porter

PHOTO LOG
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

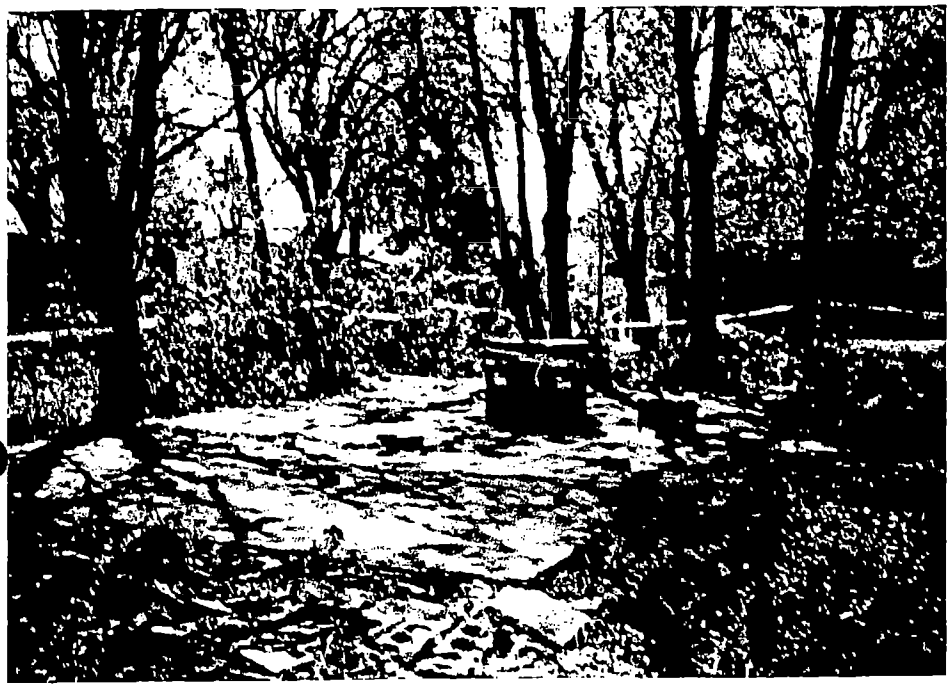


Photo #13
View of drum staging area showing drums labeled and banner guard.
Date taken: 04/19/95
Taken by: Leston Porter

Photo #14
Geo Probe unit advancing a sampling tube. Sample being collected from sample location X122.
Date taken: 04/22/95
Taken by: Leston Porter

PHOTO LOG
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

Photo #15
Soil samples in Geo Probe's sample liners before being transferred into the appropriately labeled sample jars.
Date taken: 04/22/95
Taken by: Leston Porter

Photo #16
Geo Environmental's mobile laboratory at IEPA's Collinsville office.
Date taken: 04/20/95
Taken by: Leston Porter

PHOTO LOG
Butler/Washington Park Site
Riedel/Smith Environmental Technologies Job No. 3680

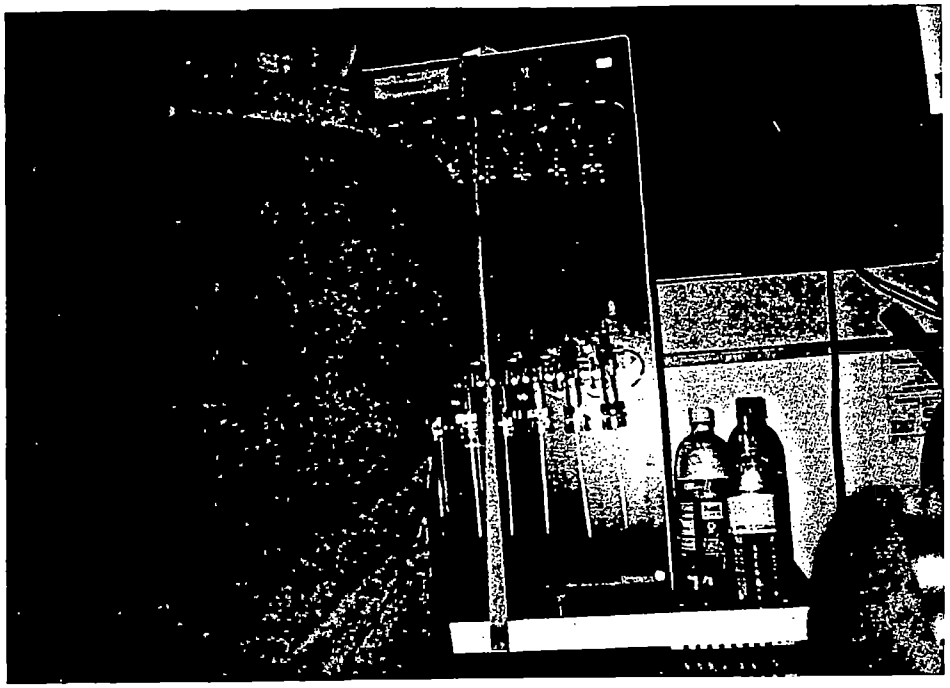


Photo #17
View of a gas chromatograph inside Geo Probe's mobile laboratory.
Date taken: 04/20/95
Taken by: Leston Porter

Photo #18
View of a gas chromatograph equipment inside Geo Probe's mobile laboratory.
Date taken: 04/20/95
Taken by: Leston Porter

APPENDIX B

BORING LOGS

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: CONTINUOUS SAMPLE #1	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: 3' TO THE SOUTH AND 3' TO THE WEST OF THE NORTHEAST PEN.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 12.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0 – 2.0	Dark brown to black SOIL; easily broken up.	08:30	NA	
2.0 – 4.0	Turns a reddish tint, becomes more clay rich.	08:30	NA	
4.0 – 6.0	Increasingly SANDY Easily broken apart, reddish tint.	08:30	NA	
6.0 – 8.0				
8.0 – 10.0				
10.0 – 12.0				
12.0 – 14.0	GROUND WATER			
14.0 – 16.0				
16.0 – 18.0				
18.0 – 20.0				

ACAD FILE: LOGS/3680-CS1 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X101	PROJECT: IEPA - WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X101.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- Black loose soil and gravel.	11:00	NA	X101-00
2.0	Grey CLAY.	13:30	NA	X101-03
4.0	NOT SAMPLED			
6.0	Grey CLAY.	13:34	NA	X101-06
8.0	NOT SAMPLED			
10.0	SANDY, reddish tint, water saturated.	13:42	NA	X101-11
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS/3680-101 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X102	PROJECT: WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X102.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- Black loose soil and gravel.	11:00	NA	X102-00'
2.0	Easily broken apart dark brown to black, majority a grey CLAY.	13:45	NA	X102-03'
4.0	NOT SAMPLED			
6.0	CLAY, reddish tint.	13:48	NA	X102-06'
8.0	NOT SAMPLED			
10.0	CLAY Reddish, sandy, easily broken apart.	13:55	NA	X102-11'
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-102 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X103	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X103.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 9.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:05	NA	X103-00'
2.0	Dark brown, breaks apart somewhat easily, CLAY–SOIL mixture.	14:00	NA	X103-03'
4.0	NOT SAMPLED			
	CLAY, reddish tint.	14:06	NA	X103-06'
6.0	NOT SAMPLED			
8.0	CLAY, reddish tint. ↓ CLAY and SAND mixture.	14:10	NA	X103-09'
10.0	NOT SAMPLED			
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-103 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X104	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X104.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:05	NA	X104-00'
2.0	Black SOIL, increasing CLAY.	14:15	NA	X104-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY.	14:19	NA	X104-06'
8.0	Reddish brown CLAY.	14:25	NA	X104-08'
	Some SOIL/mostly CLAY mixture.			
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-104 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X105	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X105.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:10	NA	X105-00'
2.0	No recovery on the initial 1'–3' sample, had to offset 6" to the south. SOIL/CLAY mixture.	14:30	NA	X105-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY.	14:34	NA	X105-06'
8.0	Reddish brown CLAY. SOIL/mostly CLAY mixture.	14:41	NA	X105-08'
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-105 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X106	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X106.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:10	NA	X106-00'
2.0	Little SANDY at top, brown/black. SOIL/mostly CLAY mixture.	14:45	0 (BA) 0 (BH)	X106-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY.	14:50	0 (BA) 0 (BH)	X106-06'
8.0	Reddish brown CLAY, little soil mixed in.	14:55	NA	X106-08'
10.0				
12.0				
14.0				
16.0				
18.0	Note: BA – Breathing Area BH – Boring Hole			
20.0				

ACAD FILE: LOGS\3680-106 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X107	PROJECT: IEPA - WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X107.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- Black loose soil and gravel.	11:15	NA	X107-00'
2.0	Dark brown to black CLAY and SOIL mixture.	15:05	NA	X107-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY.	15:10	NA	X107-06'
8.0	Reddish brown CLAY, some soil mixed in.	15:15	NA	X107-08'
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-107 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X108	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X108.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:15	NA	X108-00'
2.0	SOIL/CLAY mixture. ↓ Reddish brown CLAY.	15:27	NA	X108-03'
4.0	NOT SAMPLED			
	Reddish brown CLAY.	15:30	NA	X108-06'
6.0	CLAY/SOIL mixture.	15:34	NA	X108-08'
8.0	NOT SAMPLED			
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-108 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X109	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X109.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:20	NA	X109-00'
2.0	Some CLAY/SOIL mixture, dark brown. ↓ Reddish brown CLAY.	15:55	NA	X109-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY.	15:59	NA	X109-06'
8.0	Very SANDY and soft, water saturated.	16:05	NA	X109-08'
10.0	NOT SAMPLED			
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-109 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X110	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X110.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:21	NA	X110-00'
2.0	CLAY/SOIL mixture. ↓ Increasing CLAY content.	16:11	NA	X110-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY.	16:15	NA	X110-06'
8.0	SOIL, very sandy and soft, water saturated.	16:19	NA	X110-08'
10.0	NOT SAMPLED			
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-110 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X111	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-18-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X111.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:25	NA	X111-00'
2.0	Black CLAY and SOIL mixture. ↓ Reddish brown CLAY.	16:30	NA	X111-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY.	16:35	NA	X111-06'
8.0	Brown sandy CLAY, soft. Water saturated. ↓ Increasingly sandy.	16:37	NA	X111-08'
10.0	NOT SAMPLED			
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-111 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X112	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-19-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X112.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:27	NA	X112-00'
2.0	Black CLAY and SOIL mixture. ↓ Reddish brown CLAY.	08:15	NA	X112-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY. ↓ CLAY and SANDY.	08:20	NA	X112-06'
8.0	Sandy, brown, soft. Water saturated.	08:24	NA	X112-08'
10.0	NOT SAMPLED			
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-112 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X113	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-19-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X113.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:30	NA	X113-00'
2.0	Black SOIL/CLAY mixture, easily broken apart. ↓ Reddish brown CLAY.	08:30	NA	X113-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY. ↓ Brown SANDY, soft. Water present.	08:35	NA	X113-06'
8.0	Brown SANDY, soft. Water saturated.	08:42	NA	X113-08'
	NOT SAMPLED			
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-113 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X114	PROJECT: IEPA - WASHINGTON PARK II
DATE: 4-19-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X114.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 8.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- Black loose soil and gravel.	11:31	NA	X114-00'
2.0	Black gritty SOIL/OILY look. Black SOIL/CLAY mixture.	08:47	NA	X114-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY. Softer ↓ More water present.	08:50	NA	X114-06'
8.0	Brown SANDY, soft. Water saturated.	09:00	NA	X114-08'
10.0	NOT SAMPLED			
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-114 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X115	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-19-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X115.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 6.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:33	NA	X115-00'
2.0	Black SOIL/CLAY mixture. Brown SANDY, soft.	09:04	NA	X115-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY. ↓ Softer, increasing amount of water present.	09:09	NA	X115-06'
8.0	NOT SAMPLED			
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-115 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X116	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-19-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X116.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 6.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:35	NA	X116-00'
2.0	Black SOIL, little CLAY, broken up easily. More CLAY.	09:15	NA	X116-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY. Softer ↓	09:19	NA	X116-06'
8.0	NOT SAMPLED			
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-116 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X117	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-19-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X117.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 6.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:40	NA	X117-00'
2.0	Black SOIL/CLAY mixture More CLAY. sheen on inner sample tube	09:28	NA	X117-03'
4.0	NOT SAMPLED			
6.0	Brown sandy SOIL, soft. Softer Water present. sheen on inner sample tube	09:35	NA	X117-06'
8.0	NOT SAMPLED			
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-117 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X118	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-19-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X118.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 4.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:42	NA	X118-00'
2.0	Brown sandy SOIL, soft. Water present.	09:39	NA	X118-03'
4.0	NOT SAMPLED			
	Not sampled. We offset 4 times and got refusal at 4'. Hit wood.			
6.0	NOT SAMPLED			
8.0				
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-118 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X119	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-19-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X119.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 6.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– Black loose soil and gravel.	11:45	NA	X119-00'
2.0	Brown SOIL/CLAY mixture, mostly clay; did not break apart, but somewhat soft.	10:05	NA	X119-03'
	NOT SAMPLED			
4.0	Reddish brown CLAY.			
	Softer, more water present.	10:11	NA	X119-06'
6.0	NOT SAMPLED			
8.0				
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-119 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X120	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-19-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X120.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 6.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- Black loose soil and gravel.	11:48	NA	X120-00'
2.0	Reddish brown CLAY.	10:15	NA	X120-03'
4.0	NOT SAMPLED			
6.0	Brown sandy SOIL, soft. Water present. sheen on inner sample tube	10:19	NA	X120-06'
8.0	NOT SAMPLED			
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-120 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X121	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-19-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X121.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 6.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- Black loose soil and gravel.	11:50	NA	X121-00'
2.0	Reddish brown CLAY.	10:22	NA	X121-03'
	NOT SAMPLED			
4.0	Brown sandy SOIL. Water present.	10:30	NA	X121-06'
6.0	NOT SAMPLED			
8.0				
10.0				
12.0				
14.0				
16.0				
18.0				
20.0				

ACAD FILE: LOGS\3680-121 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X122	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-22-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X122.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– NOT SAMPLED			
2.0	Reddish brown CLAY.	09:00	NA	X122-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY, soft. More moisture.	09:05	NA	X122-06'
8.0	NOT SAMPLED			
10.0	Reddish brown CLAY/SANDY. Very soft, water saturated.	09:15	0 (BA) 0 (BH)	X122-11'
12.0	NOT SAMPLED			
14.0				
16.0				
18.0	Note: BA – Breathing Area BH – Boring Hole			
20.0				

ACAD FILE: LOGS\3680-122 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X123	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-22-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X123.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– NOT SAMPLED			
2.0	Reddish brown CLAY.	09:25	NA	X123-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY, softer. Increasing water present.	09:29	NA	X123-06'
8.0	NOT SAMPLED			
10.0	Brown sandy SOIL, very soft. Water saturated.	09:33	0 (BA) 0 (BH)	X123-11'
12.0 14.0 16.0 18.0 20.0	NOT SAMPLED Note: BA – Breathing Area BH – Boring Hole			

ACAD FILE: LOGS\3680-123 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X124	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-22-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X124.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- NOT SAMPLED			
2.0	Reddish brown CLAY, little soft.	09:40	NA	X124-03'
4.0	NOT SAMPLED			
6.0	SOIL/CLAY mixture, easily broken apart.	09:42	NA	X124-06'
8.0	NOT SAMPLED			
10.0	SOIL/CLAY/SANDY, very soft. Water saturated.	09:45	0 (BA) 250 (BH)	X124-11'
12.0 14.0 16.0 18.0 20.0	NOT SAMPLED Note: BA – Breathing Area BH – Boring Hole			

ACAD FILE: LOGS\3680-124 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X125	PROJECT: IEPA - WASHINGTON PARK II
DATE: 4-22-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X125.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- NOT SAMPLED			
2.0	SOIL/CLAY mixture, soft. Little water present.	10:00	NA	X125-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY, little soft. Little water present.	10:07	NA	X125-06'
8.0	NOT SAMPLED			
10.0	Sandy CLAY, very soft. Water saturated.	10:11	0 (BA) 100 (BH)	X125-11'
12.0 14.0 16.0 18.0 20.0	NOT SAMPLED Note: BA - Breathing Area BH - Boring Hole			

ACAD FILE: LOGS\3680-125 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X127	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-22-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X127.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE-NOT SAMPLED			
2.0	Reddish brown CLAY. Little water present.	10:22	NA	X127-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY, slightly soft. Water present No water present	10:30	NA	X127-06'
8.0	NOT SAMPLED			
10.0	Soil sandy, some CLAY. Water saturated.	10:42	0 (BA) 0 (BH)	X127-11'
12.0	NOT SAMPLED			
14.0				
16.0				
18.0	Note: BA – Breathing Area BH – Boring Hole			
20.0				

ACAD FILE: LOGS\3680-127 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X128	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-22-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X128.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- NOT SAMPLED			
2.0	SOIL and CLAY mixture.	10:48	NA	X128-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY. Little water present	10:51	NA	X128-06'
8.0	NOT SAMPLED			
10.0	Sandy CLAY, very soft. Water saturated.	10:55	NA	X128-11'
12.0 14.0 16.0 18.0 20.0	NOT SAMPLED			

ACAD FILE: LOGS\3680-128 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X129	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-22-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X129.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- NOT SAMPLED			
2.0	Reddish brown CLAY. Little water present	11:05	NA	X129-03'
4.0	NOT SAMPLED			
6.0	Mostly SOIL/little CLAY. Dry, crumbled easily.	11:07	NA	X129-06'
8.0	NOT SAMPLED			
10.0	Sandy SOIL, brown, very soft. Water saturated.	11:15	0 (BA) 0 (BH)	X129-11'
12.0 14.0 16.0 18.0 20.0	NOT SAMPLED Note: BA – Breathing Area BH – Boring Hole			

ACAD FILE: LOGS\3680-129 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X130	PROJECT: IEPA - WASHINGTON PARK II
DATE: 4-22-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X130.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- NOT SAMPLED			
2.0	SOIL/CLAY mixture.	11:23	NA	X130-03
4.0	NOT SAMPLED			
	Reddish brown SOIL.	11:29	NA	X130-06
6.0				
8.0	NOT SAMPLED			
10.0	Sandy CLAY/SOIL, very soft. Water saturated.	11:35	0 (BA) 0 (BH)	X130-11
12.0	NOT SAMPLED			
14.0				
16.0				
18.0	Note: BA - Breathing Area BH - Boring Hole			
20.0				

ACAD FILE: LOGS\3680-130 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X131	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-22-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X131.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE– NOT SAMPLED			
2.0	Reddish brown SOIL/CLAY.	11:40	NA	X131-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY, slightly soft. Some water present.	11:46	NA	X131-06'
8.0	NOT SAMPLED			
10.0	Sandy SOIL/CLAY, very soft. Water saturated.	11:51	0 (BA) 0 (BH)	X131-11'
12.0 14.0 16.0 18.0 20.0	NOT SAMPLED Note: BA – Breathing Area BH – Boring Hole			

ACAD FILE: LOGS\3680-131 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

RIEDEL ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X132	PROJECT: IEPA – WASHINGTON PARK II
DATE: 4-22-95	
JOB #: 3680	WELL LOCATION: SAMPLE LOCATION X132.
DRILLING METHOD: GEO-PROBING	TOTAL BORING DEPTH: 11.0'
LOGGED BY: LESTON PORTER	DRILLING FIRM: GEO ENVIRONMENTAL

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0	SURFACE- NOT SAMPLED			
2.0	Reddish brown SOIL/mostly CLAY mixture.	11:55	NA	X132-03'
4.0	NOT SAMPLED			
6.0	Reddish brown CLAY, slightly soft. Some water present.	12:01	NA	X132-06'
8.0	NOT SAMPLED			
10.0	Red brown sandy SOIL/CLAY, very soft. Water saturated.	12:07	0 (BA) 0 (BH)	X132-11'
12.0 14.0 16.0 18.0 20.0	NOT SAMPLED Note: BA – Breathing Area BH – Boring Hole			

ACAD FILE: LOGS\3680-132 DATE: 4/27/95

SUBSURFACE EXPLORATION LOG

SMITH ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X133	PROJECT: IEPA - Washington Park II
DATE: 5-25-95	
JOB: 3680	WELL LOCATION: Sample location X133
DRILLING METHOD: Dig - R - Mobile	TOTAL BORING DEPTH: 5'
LOGGED BY: Leston Porter	DRILLING FIRM: Smith/Riedel Environmental Services, Inc.

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0				
1.0	NOT SAMPLED			
2.0				
	Brown clay.	14:12	N/A	X133-03'
3.0				
	NOT SAMPLED			
4.0				
	Brown clay.	14:37	N/A	X133-05'
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				

SUBSURFACE EXPLORATION LOG

SMITH ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X134	PROJECT: IEPA - Washington Park II
DATE: 5-25-95	
JOB: 3680	WELL LOCATION: Sample location X134
DRILLING METHOD: Dig - R - Mobile	TOTAL BORING DEPTH: 5'
LOGGED BY: Leston Porter	DRILLING FIRM: Smith/Riedel Environmental Services, Inc.

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0				
1.0	NOT SAMPLED			
2.0	Brown clay.	13:36	N/A	X134-03'
3.0	NOT SAMPLED			
4.0	Brown clay.	13:57	N/A	X134-05'
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				

SUBSURFACE EXPLORATION LOG

SMITH ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X135	PROJECT: IEPA - Washington Park II
DATE: 5-25-95	
JOB: 3680	WELL LOCATION: Sample location X135
DRILLING METHOD: Dig - R - Mobile	TOTAL BORING DEPTH: 5'
LOGGED BY: Leston Porter	DRILLING FIRM: Smith/Riedel Environmental Services, Inc.

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0				
1.0	NOT SAMPLED			
2.0	Dark brown soil/clay mixture.	11:47	N/A	X135-03'
3.0	NOT SAMPLED			
4.0	Brown clay/soil mixture.	12:07	N/A	X135-05'
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				

SUBSURFACE EXPLORATION LOG

SMITH ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X136	PROJECT: IEPA - Washington Park II
DATE: 5-25-95	
JOB: 3680	WELL LOCATION: Sample location X136
DRILLING METHOD: Dig - R - Mobile	TOTAL BORING DEPTH: 5'
LOGGED BY: Leston Porter	DRILLING FIRM: Smith/Riedel Environmental Services, Inc.

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0				
1.0	NOT SAMPLED			
2.0	Brown clay/soil mixture.	11:10	N/A	X136-03'
3.0	NOT SAMPLED			
4.0	Reddish brown clay/soil mixture.	11:23	N/A	X136-05'
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				

SUBSURFACE EXPLORATION LOG

SMITH ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X137	PROJECT: IEPA - Washington Park II
DATE: 5-25-95	
JOB: 3680	WELL LOCATION: Sample location X137
DRILLING METHOD: Dig - R - Mobile	TOTAL BORING DEPTH: 5'
LOGGED BY: Leston Porter	DRILLING FIRM: Smith/Riedel Environmental Services, Inc.

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0				
1.0	NOT SAMPLED			
2.0				
	Brown clay/soil mixture.	10:45	N/A	X137-03'
3.0				
	NOT SAMPLED			
4.0				
	Reddish brown clay.	10:56	N/A	X137-05'
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				

SUBSURFACE EXPLORATION LOG

SMITH ENVIRONMENTAL SERVICES, INC.
ST. LOUIS DISTRICT
18207 EDISON AVENUE
CHESTERFIELD, MISSOURI 63005
(314) 532-7660

BORING #: X138	PROJECT: IEPA - Washington Park II
DATE: 5-25-95	
JOB: 3680	WELL LOCATION: Sample location X138
DRILLING METHOD: Dig - R - Mobile	TOTAL BORING DEPTH: 5'
LOGGED BY: Leston Porter	DRILLING FIRM: Smith/Riedel Environmental Services, Inc.

DEPTH (ft.)	DESCRIPTION	TIME COLLECTED	PID (ppm)	ANALYTICAL SAMPLE #
0.0				
1.0	NOT SAMPLED			
2.0	Reddish brown clay.	09:40	N/A	X138-03'
3.0	NOT SAMPLED			
4.0	Reddish brown clay.	10:05	N/A	X138-05'
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				

APPENDIX C

ON SITE ANALYTICAL RESULTS

GEO CORPORATION

May 9, 1995

Steve Crider
Riedel Environmental
18207 Edison Avenue
Chesterfield, Missouri 63005

Dear Mr. Crider,

Attached please find the analytical results of the soil samples collected in Washington Park, Illinois. Sixty-three samples were analyzed on site for vinyl chloride, trans-1,2-dichloroethene, cis-1,2-dichloroethene, trichloroethene, and tetrachloroethene along with associated quality control as per EPA method 8010 with EPA method 5030 purge and trap introduction on April 19-22.

Samples below reporting limits are designated as "BRL", with reporting limits given in parentheses.

Please call myself or Dr. Liz Sexton with any questions or concerns.

Sincerely,

Kathleen Linthicum

Kathleen Linthicum
Senior Chemist

15000 West 6th Avenue, Suite 202-B • Golden, Colorado 80401 • (303) 279-4655 • FAX (303) 279-5187

GEO CORPORATION

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

RESULTS AND DISCUSSION

Sixty-three soil samples were collected and analyzed at the Washington Park, Illinois, site on April 19-22, 1995. The samples were analyzed for a reduced list of compounds using EPA method 8010 with EPA method 5030 purge and trap introduction.

The HSD (Halogen Specific Detection) used for method 8010 was ECD (Electron Capture Detection); it is an extremely sensitive detector, with an attenuated linear range compared to other detectors. Preliminary sample results reported in the field were subject to reruns if the analyte amount in the sample exceeded the linear range of the detector. These changes are made on the final report, with changes indicated by elevated reporting limits.

The Washington Park, Illinois, site had a large number of samples with high target analyte detections. This meant a number of reruns in order to make analyte detections fall in the linear range of the detector. In some cases, this will also cause the value to change , as excessive detector response will bias the true analyte concentrations low.

It should be noted that EPA Method 8010 provides excellent sample data for "real-time" results in the field. Time constraints do not always allow for final on-site results to be generated, especially when dilutions need to be analyzed, to meet the method QC criteria. Thus, the need for QC policy and issuing final reports after QC review.

15000 West 6th Avenue, Suite 202-B • Golden, Colorado 80401 • (303) 279-4655 • FAX (303) 279-5187

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X101-03-00 4/19/95		WP-X102-03-00 4/19/95		WP-X103-03-00 4/19/95	
Vinyl Chloride	BRL	(2)	BRL	(2)	BRL	(10)
trans-1,2-DCE	18	(5)	BRL	(5)	BRL	(25)
cis-1,2-DCE	710	(500)	BRL	(5)	BRL	(25)
TCE	BRL	(1)	BRL	(1)	5.4	(5)
PCE	1.2	(1)	23	(5)	19	(5)
Surrogate Recovery	94%		70%		105%	

Sample Date Analyzed	WP-X104-03-00 4/20/95		WP-X105-03-00 4/19/95		WP-X106-03-00 4/19/95	
Vinyl Chloride	BRL	(10)	BRL	(10)	BRL	(10)
trans-1,2-DCE	BRL	(25)	190	(25)	BRL	(25)
cis-1,2-DCE	BRL	(25)	7200	(5000)	BRL	(25)
TCE	BRL	(5)	6400	(1000)	BRL	(5)
PCE	23	(5)	37000	(1000)	10000	(1000)
Surrogate Recovery	100%		113%		71%	

Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X107-03-00 4/19/95		WP-X108-03-00 4/19/95		WP-X109-03-00 4/19/95	
Vinyl Chloride	BRL	(10)	BRL	(40)	BRL	(10)
trans-1,2-DCE	BRL	(25)	BRL	(100)	BRL	(25)
cis-1,2-DCE	BRL	(25)	BRL	(100)	BRL	(25)
TCE	50	(5)	BRL	(20)	BRL	(5)
PCE	900	(500)	150	(20)	39	(5)
Surrogate Recovery	83%		108%		89%	

Sample Date Analyzed	WP-X110-03-00 4/20/95		WP-X111-03-00 4/19/95		WP-X101-00-00 4/20/95	
Vinyl Chloride	BRL	(10)	BRL	(10)	BRL	(10)
trans-1,2-DCE	BRL	(25)	BRL	(25)	BRL	(25)
cis-1,2-DCE	BRL	(25)	BRL	(25)	217	(25)
TCE	BRL	(5)	BRL	(5)	BRL	(5)
PCE	6.3	(5)	BRL	(5)	7.1	(5)
Surrogate Recovery	94%		94%		47%*	

* Reproducibly low surrogate recovery
Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X102-00-00 4/19/95		WP-X103-00-00 4/19/95		WP-X104-00-00 4/19/95	
Vinyl Chloride	BRL	(2)	BRL	(2)	BRL	(20)
trans-1,2-DCE	BRL	(5)	BRL	(5)	BRL	(5)
cis-1,2-DCE	BRL	(5)	BRL	(5)	BRL	(5)
TCE	BRL	(1)	1.3	(1)	BRL	(1)
PCE	3.0	(1)	4.7	(1)	1.2	(1)
Surrogate Recovery	13%*		25%*		34%*	

Sample Date Analyzed	WP-X105-00-00 4/20/95		WP-X106-00-00 4/20/95		WP-X107-00-00 4/20/95	
Vinyl Chloride	BRL	(10)	BRL	(10)	BRL	(10)
trans-1,2-DCE	29	(25)	BRL	(25)	BRL	(25)
cis-1,2-DCE	1100	(25)	BRL	(25)	BRL	(25)
TCE	BRL	(5)	BRL	(5)	BRL	(5)
PCE	11	(5)	16	(5)	30	(5)
Surrogate Recovery	98%		57%		53%	

* Reproducibly low surrogate recovery
Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X108-00-00 4/20/95		WP-X109-00-00 4/19/95		WP-X110-00-00 4/19/95	
Vinyl Chloride	BRL	(10)	BRL	(2)	BRL	(2)
trans-1,2-DCE	BRL	(25)	BRL	(5)	BRL	(5)
cis-1,2-DCE	1700	(25)	BRL	(5)	5.2	(5)
TCE	260	(5)	BRL	(1)	BRL	(1)
PCE	730	(5)	3.0	(1)	BRL	(1)
Surrogate Recovery	59%		24%*		34%*	

Sample Date Analyzed	WP-X111-00-00 4/19/95		WP-X112-00-00 4/20/95		WP-X113-00-00 4/20/95	
Vinyl Chloride	BRL	(2)	BRL	(10)	BRL	(10)
trans-1,2-DCE	BRL	(5)	BRL	(25)	BRL	(25)
cis-1,2-DCE	7.4	(5)	BRL	(25)	BRL	(25)
TCE	13	(1)	BRL	(5)	BRL	(5)
PCE	70	(1)	7.5	(5)	39	(5)
Surrogate Recovery	32%*		81%		117%	

* Reproducibly low surrogate recovery
Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X114-00-00 4/20/95		WP-X101-06-00 4/20/95		WP-X105-06-00 4/20/95	
Vinyl Chloride	BRL	(10)	BRL	(10)	BRL	(20)
trans-1,2-DCE	BRL	(25)	BRL	(25)	66	(50)
cis-1,2-DCE	BRL	(25)	480	(250)	4800	(50)
TCE	BRL	(5)	BRL	(5)	3200	(10)
PCE	BRL	(5)	BRL	(5)	1600	(10)
Surrogate Recovery	61%		94%		104%	

Sample Date Analyzed	WP-X106-06-00 4/20/95		WP-X107-06-00 4/20/95		WP-X108-06-00 4/20/95	
Vinyl Chloride	BRL	(20)	BRL	(20)	BRL	(20)
trans-1,2-DCE	BRL	(50)	BRL	(50)	BRL	(50)
cis-1,2-DCE	BRL	(50)	BRL	(50)	BRL	(50)
TCE	BRL	(10)	13	(10)	20	(10)
PCE	80	(20)	1800	(500)	170	(10)
Surrogate Recovery	91%		93%		100%	

Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X109-06-00 4/20/95		WP-X112-03-00 4/20/95		WP-X113-03-00 4/20/95	
Vinyl Chloride	BRL	(10)	BRL	(10)	BRL	(10)
trans-1,2-DCE	BRL	(25)	BRL	(25)	BRL	(25)
cis-1,2-DCE	BRL	(25)	BRL	(25)	BRL	(25)
TCE	BRL	(5)	BRL	(5)	BRL	(5)
PCE	190	(5)	93	(5)	180	(20)
Surrogate Recovery	73%		78%		70%	

Sample Date Analyzed	WP-X114-03-00 4/20/95		WP-X105-08-00 4/20/95		WP-X106-08-00 4/20/95	
Vinyl Chloride	BRL	(10)	BRL	(20)	BRL	(20)
trans-1,2-DCE	BRL	(25)	BRL	(50)	BRL	(50)
cis-1,2-DCE	BRL	(25)	950	(50)	BRL	(50)
TCE	BRL	(5)	1700	(10)	34	(10)
PCE	BRL	(5)	1100	(10)	330	(10)
Surrogate Recovery	46%*		57%		104%	

* Reproducible low surrogate recovery
Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X107-08-00 4/20/95		WP-X108-08-00 4/20/95		WP-X109-08-00 4/20/95	
Vinyl Chloride	BRL	(20)	BRL	(20)	BRL	(20)
trans-1,2-DCE	BRL	(50)	BRL	(50)	BRL	(50)
cis-1,2-DCE	BRL	(50)	BRL	(50)	BRL	(50)
TCE	18	(10)	27	(10)	BRL	(10)
PCE	130	(100)	200	(10)	300	(10)
Surrogate Recovery	115%		92%		92%	

Sample Date Analyzed	WP-X101-11-00 4/20/95		WP-X112-06-00 4/20/95		WP-X113-06-00 4/20/95	
Vinyl Chloride	BRL	(20)	BRL	(20)	BRL	(20)
trans-1,2-DCE	BRL	(50)	BRL	(50)	BRL	(50)
cis-1,2-DCE	180	(50)	BRL	(50)	BRL	(50)
TCE	15	(10)	BRL	(10)	11	(10)
PCE	21	(10)	57	(10)	130	(10)
Surrogate Recovery	82%		87%		66%	

Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X115-03-00 4/21/95		WP-X116-03-00 4/21/95		WP-X115-06-00 4/21/95	
Vinyl Chloride	BRL	(20)	BRL	(20)	BRL	(20)
trans-1,2-DCE	BRL	(50)	BRL	(50)	BRL	(50)
cis-1,2-DCE	BRL	(50)	BRL	(50)	BRL	(50)
TCE	BRL	(10)	BRL	(10)	BRL	(10)
PCE	27	(10)	71	(10)	40	(10)
Surrogate Recovery	73%		75%		77%	

Sample Date Analyzed	WP-X117-03-00 4/21/95		WP-X116-06-00 4/21/95		WP-X112-08-00 4/21/95	
Vinyl Chloride	BRL	(20)	BRL	(40)	BRL	(40)
trans-1,2-DCE	BRL	(50)	BRL	(100)	BRL	(100)
cis-1,2-DCE	180	(50)	BRL	(100)	BRL	(100)
TCE	BRL	(10)	BRL	(20)	BRL	(20)
PCE	28	(10)	33	(20)	30	(20)
Surrogate Recovery	75%		82%		90%	

Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X113-08-00 4/21/95		WP-X118-03-00 4/22/95		WP-X119-03-00 4/22/95	
Vinyl Chloride	BRL	(40)	BRL	(10)	BRL	(10)
trans-1,2-DCE	BRL	(100)	BRL	(5)	BRL	(5)
cis-1,2-DCE	BRL	(100)	BRL	(5)	BRL	(5)
TCE	BRL	(20)	BRL	(5)	BRL	(5)
PCE	BRL	(20)	BRL	(5)	BRL	(5)
Surrogate Recovery	94%		105%		104%	

Sample Date Analyzed	WP-X120-03-00 4/22/95		WP-X121-03-00 4/22/95		WP-X122-06-00 4/22/95	
Vinyl Chloride	BRL	(10)	BRL	(10)	BRL	(10)
trans-1,2-DCE	BRL	(5)	BRL	(5)	BRL	(5)
cis-1,2-DCE	BRL	(5)	BRL	(5)	BRL	(5)
TCE	BRL	(5)	BRL	(5)	BRL	(5)
PCE	BRL	(5)	BRL	(5)	BRL	(5)
Surrogate Recovery	112%		111%		97%	

Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X123-06-00 4/22/95		WP-X124-06-00 4/22/95		WP-X125-06-00 4/22/95	
Vinyl Chloride	BRL	(10)	BRL	(10)	BRL	(10)
trans-1,2-DCE	BRL	(5)	BRL	(5)	BRL	(5)
cis-1,2-DCE	BRL	(5)	15	(5)	BRL	(5)
TCE	BRL	(5)	14	(5)	BRL	(5)
PCE	BRL	(5)	37	(5)	12	(5)
Surrogate Recovery	93%		95%		108%	

Sample Date Analyzed	WP-X127-03-00 4/22/95		WP-X128-03-00 4/22/95		WP-X129-03-00 4/22/95	
Vinyl Chloride	BRL	(10)	BRL	(10)	BRL	(10)
trans-1,2-DCE	BRL	(5)	BRL	(5)	BRL	(5)
cis-1,2-DCE	BRL	(5)	6.2	(5)	BRL	(5)
TCE	BRL	(5)	16	(5)	BRL	(5)
PCE	BRL	(5)	78	(5)	BRL	(5)
Surrogate Recovery	92%		102%		97%	

Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

RIEDEL ENVIRONMENTAL
Washington Park, Illinois

Sample Date Analyzed	WP-X130-03-00 4/22/95		WP-X131-03-00 4/22/95		WP-X132-03-00 4/22/95	
Vinyl Chloride	BRL	(10)	BRL	(10)	BRL	(10)
trans-1,2-DCE	BRL	(5)	BRL	(5)	BRL	(5)
cis-1,2-DCE	BRL	(5)	BRL	(5)	BRL	(5)
TCE	BRL	(5)	BRL	(5)	BRL	(5)
PCE	12	(5)	BRL	(5)	BRL	(5)
Surrogate Recovery	89%		55%		86%	

Units: ug/kg
DCE = Dichloroethene
TCE = Trichloroethene
PCE = Tetrachloroethene
Reporting limits in parentheses
BRL = Below reporting limits

APPENDIX D

OFF SITE ANALYTICAL RESULTS

Page ____ of ____

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY

IDS82073-79

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. 1631450006 County ST. CLAIR

Federal I.D. No. ____ Washington Park/Butler Drum
(Facility Name)

SAMPLI TEAM

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
X117-06	TWM	1	4/19/95	1200 AM/PM
X122-03		1	4/22/95	10:30 AM/PM
X123-03		1		AM/PM
X124-11		1		AM/PM
X125-03		1		AM/PM
X128-06		1		1200 AM/PM
X130-06		1		1200 AM/PM
				AM/PM
				AM/PM
				AM/PM

Sealer's Signature [signature] Date 4/24/95 Time 1600 AM/PM

Sampler(s) L. Porter

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

CARRIERS

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
[signature]	4/24/95	1600 AM/PM	UPS	4/24/95	1600 AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature [signature] Date 4-25-95 Time 0920 A.M. P.M.

Lab Location SPFLD #12 (City) UPS

IL 532-1147

120-011

DLPC SPECIAL ANALYSIS FORM

1631450006 - ST. Clair
IEPA ID # County

Washington Park / Butler Drum
Site Name

Lab Location
Champaign __
Chicago __
Springfield X

Field Sample #: X117

Lab #: D582076

USEPA ID #
FOS

Date Received: APR 25 1995

Date Collected: 4/19/95 Time Collected: 0934

Time Received: 0920 UPS

Program Code: LP52 Unit Code: 486

Received By: GS

Sampling Purpose: (01-Sp. Req.) (02-DCI) (03-Emerg. Resp.) (04-Routine Sampling)

Source of Sample (Exact Location): X117 at 6 foot below the Land Surface

Physical Observations, Remarks: Brown Silty Clay

Tests Requested: Voc's

7 Day Turnaround

Retain samples until released by responsible authority (Yes) (No)

Collected By: [illegible] Transported By: UPS

LABORATORY

Date Forwarded: 4/27/95

Laboratory Reviewer Signature: [illegible] J Hurley

D582076

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D582076
SAMPLING POINT DESC. : X117/ST. CLAIR/WASH PARK/BUTLER DRUM

SUBMITTING SOURCE # : SITE # : 1631450006
DATE COLLECTED : 950419 TIME COLLECTED : 0934 SAMPLING PROGRAM :

COLLECTED BY : L. PORTER DELIVERED BY : UPS
COMMENTS : VOCS
FUNDING CODE : LP52 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 1 REPORTING INDICATOR : B

DATE RECEIVED : 950425 TIME RECEIVED : 0920 RECEIVED BY : G S
LAB OBSERVATIONS : 1-4 OZ CLAY TRIP BL SAM# :
SUPERVISORS INITIALS : JTM NOTE : K = LESS THAN VALUE

4418	CHLOROMETHANE	UG/KG	: 10K
4413	BROMOMETHANE	UG/KG	: 10K
A39175	VINYL CHLORIDE	UG/KG	: 10K
A34311	CHLOROETHANE	UG/KG	: 10K
A34423	METHYLENE CHLORIDE	UG/KG	: 150
A81552	ACETONE	UG/KG	: 64
A34488	TRICHLOROFLUOROMETHANE	UG/KG	: 5.0K
7277	BROMOCHLOROMETHANE	UG/KG	: 5.0K
A77041	CARBON DISULFIDE	UG/KG	: 5.0K
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0K
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0K
A34546	TRANS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A77093	CIS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A32106	CHLOROFORM	UG/KG	: 5.0K
4531	1,2-DICHLOROETHANE	UG/KG	: 5.0K
1595	2-BUTANONE(MEK)	UG/KG	: 10K
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0K
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0K
A77057	VINYL ACETATE	UG/KG	: 10K
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0K
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0K
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0K
A32105	CHLORODIBROMOMETHANE	UG/KG	: 5.0K
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0K
A78124	BENZENE	UG/KG	: 5.0K
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A34576	2-CHLOROETHYLVINYL ETHER	UG/KG	: 5.0K
32104	BROMOFORM	UG/KG	: 5.0K

5 'LE NUMBER : 0582076

A78133	4-METHYL-2-PENTANONE(MIBK)	UG/KG	: 10K
A77103	2-HEXANONE(MBK)	UG/KG	: 10K
A34475	TETRACHLOROETHYLENE	UG/KG	: 11
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0K
A78131	TOLUENE	UG/KG	: 5.0K
A34301	CHLOROBENZENE	UG/KG	: 5.0K
A78113	ETHYL BENZENE	UG/KG	: 5.0K
A77128	STYRENE	UG/KG	: 5.0K
A81551	XYLENE	UG/KG	: 5.0K
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
P00431	ALKALINITY,TOTAL	MG/L	: --
090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

GC
4/27/95

DLPC SPECIAL ANALYSIS FORM

163145000G - ST. CLAIR
IEPA ID # County

Washington Park / Butler Drum
Site Name

USEPA ID #
FOS

Field Sample #: X122

Lab Location
Champaign __
Chicago __
Springfield X

Lab #: D582077

Date Received: APR 25 1995

Time Received: 0920 ups

Received By: G-8

Date Collected: 4/22/95 Time Collected: 0900

Program Code: LPS2 Unit Code: 486

Sampling Purpose: (01-Sp. Req.) (02-DCI) (03-Emerg. Resp.) (04-Routine Sampling)

Source of Sample (Exact Location): X122 at 3 feet below ground surface

Physical Observations, Remarks: Brown silty clay

Tests Requested: Voc's

7 Day Turnaround

Retain samples until released by responsible authority (Yes) (No)

Collected By: L. Potter Transported By: UPS

LABORATORY

Date Forwarded: 4/27/95

Laboratory Reviewer Signature: J. Henley

D582077

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D582077
SAMPLING POINT DESC. : X122/ST. CLAIR/WASH PARK/BUTLER DRUM

SUBMITTING SOURCE # : SITE # : 1631450006
DATE COLLECTED : 950422 TIME COLLECTED : 0900 SAMPLING PROGRAM :

COLLECTED BY : L. PORTER DELIVERED BY : UPS
COMMENTS : VOCS
FUNDING CODE : LP52 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 1 REPORTING INDICATOR : B

DATE RECEIVED : 950425 TIME RECEIVED : 0920 RECEIVED BY : G S
LAB OBSERVATIONS : 1-4 OZ CLAY TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

4418	CHLOROMETHANE	UG/KG	: 10K
4413	BROMOMETHANE	UG/KG	: 10K
A39175	VINYL CHLORIDE	UG/KG	: 10K
A34311	CHLOROETHANE	UG/KG	: 10K
A34423	METHYLENE CHLORIDE	UG/KG	: 14
A81552	ACETONE	UG/KG	: 15
A34488	TRICHLOROFLUOROMETHANE	UG/KG	: 5.0K
7277	BROMOCHLOROMETHANE	UG/KG	: 5.0K
7041	CARBON DISULFIDE	UG/KG	: 5.0K
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0K
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0K
A34546	TRANS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A77093	CIS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A32106	CHLOROFORM	UG/KG	: 5.0K
4531	1,2-DICHLOROETHANE	UG/KG	: 5.0K
1595	2-BUTANONE(MEK)	UG/KG	: 10K
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0K
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0K
A77057	VINYL ACETATE	UG/KG	: 10K
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0K
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0K
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0K
A32105	CHLORODIBROMOMETHANE	UG/KG	: 5.0K
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0K
A78124	BENZENE	UG/KG	: 5.0K
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A34576	2-CHLOROETHYLVINYL ETHER	UG/KG	: 5.0K
32104	BROMOFORM	UG/KG	: 5.0K

PLE NUMBER : D582077

A78133	4-METHYL-2-PENTANONE(MIBK)	UG/KG	: 10K
A77103	2-HEXANONE(MBK)	UG/KG	: 10K
A34475	TETRACHLOROETHYLENE	UG/KG	: 5.0K
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0K
A78131	TOLUENE	UG/KG	: 5.0K
A34301	CHLOROBENZENE	UG/KG	: 5.0K
A78113	ETHYL BENZENE	UG/KG	: 5.0K
A77128	STYRENE	UG/KG	: 5.0K
A81551	XYLENE	UG/KG	: 5.0K
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
[illegible]0431	ALKALINITY,TOTAL	MG/L	: --
[illegible]0090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

CG
4/27/95

DLPC SPECIAL ANALYSIS FORM

163145 0006 - St. Clair
IEPA ID # County

Washington Park / Butler Drum
Site Name

USEPA ID #
FOS

Field Sample #: X123

Lab Location
Champaign ___
Chicago ___
Springfield X

Lab #: D582073

Date Received: APR 25 1995

Time Received: 0920 CP

Received By: CAE

Date Collected: 4/22/95 Time Collected: 0910

Program Code: LPS2 Unit Code: 486

Sampling Purpose: (01-Sp. Req.) (02-DCI) (03-Emerg. Resp.) (04-Routine Sampling)

Source of Sample (Exact Location): X123 at 3 feet below ground surface

Physical Observations, Remarks: Brown silty clay

Tests Requested: VOC's

7 Day Turnaround

Retain samples until released by responsible authority (Yes) (No)

Collected By: L. Porter Transported By: UPS

LABORATORY

Date Forwarded: 4/27/95

Laboratory Reviewer Signature: J. Hurley

IL 532 2311

D582073

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : 0582073
SAMPLING POINT DESC. : X123/ST. CLAIR/WASH PARK/BUTLER DRUM

SUBMITTING SOURCE # : SITE # : 1631450006
DATE COLLECTED : 950422 TIME COLLECTED : 0910 SAMPLING PROGRAM :

COLLECTED BY : L. PORTER DELIVERED BY : UPS
COMMENTS : VOCS
FUNDING CODE : LP52 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 1 REPORTING INDICATOR : 3

DATE RECEIVED : 950425 TIME RECEIVED : 0920 RECEIVED BY : G S
LAB OBSERVATIONS : 1-4 OZ CLAY TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

A [illegible]18	CHLOROMETHANE	UG/KG	: 10K
A[illegible]413	BROMOMETHANE	UG/KG	: 10K
A39175	VINYL CHLORIDE	UG/KG	: 10K
A34311	CHLOROETHANE	UG/KG	: 10K
A34423	METHYLENE CHLORIDE	UG/KG	: 120
A81552	ACETONE	UG/KG	: 33
A[illegible]488	TRICHLOROFLUOROMETHANE	UG/KG	: 5.0K
A[illegible]277	BROMOCHLOROMETHANE	UG/KG	: 5.0K
A77041	CARBON DISULFIDE	UG/KG	: 5.0K
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0K
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0K
A34546	TRANS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A77093	CIS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A[illegible]06	CHLOROFORM	UG/KG	: 5.0K
A[illegible]31	1,2-DICHLOROETHANE	UG/KG	: 5.0K
A81595	2-BUTANONE(MEK)	UG/KG	: 10K
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0K
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0K
A77057	VINYL ACETATE	UG/KG	: 10K
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0K
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0K
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0K
A32105	CHLORODIBROMOMETHANE	UG/KG	: 5.0K
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0K
A78124	BENZENE	UG/KG	: 5.0K
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
[illegible]576	2-CHLOROETHYLVINYL ETHER	UG/KG	: 5.0K
A[illegible]104	BROMOFORM	UG/KG	: 5.0K

PLE NUMBER : D582073

A78133	4-METHYL-2-PENTANONE(MIBK)	UG/KG	: 10K
A77103	2-HEXANONE(MBK)	UG/KG	: 10K
A34475	TETRACHLOROETHYLENE	UG/KG	: 5.0K
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0K
A78131	TOLUENE	UG/KG	: 5.0K
A34301	CHLOROBENZENE	UG/KG	: 5.0K
A78113	ETHYL BENZENE	UG/KG	: 5.0K
A77128	STYRENE	UG/KG	: 5.0K
A81551	XYLENE	UG/KG	: 5.0K
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
P00431	ALKALINITY,TOTAL	MG/L	: --
0090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

GG
4/27/85

DLPC SPECIAL ANALYSIS FORM

163145000 6 - ST. CLAIR
IEPA ID # County

Washington Park / Butler Drum
Site Name

USEPA ID #
FOS

Field Sample #: X124

Lab Location
Champaign ___
Chicago ___
Springfield X

Lab #: D582074

Date Received: APR 25 1995

Time Received: 0920 c

Received By: GS

Date Collected: 4/22/95 Time Collected: 0953

Program Code: LP52 Unit Code: 486

Sampling Purpose: (01-Sp. Req.) (02-DCI) (03-Emerg. Resp.) (04-Routine Sampling)

Source of Sample (Exact Location): X124 at 11 feet below ground surface

Physical Observations, Remarks: Brown silty clay

Tests Requested: VOC's

7 Day Turnaround

Retain samples until released by responsible authority (Yes) (No)

Collected By: T. Porter Transported By: UPS

LABORATORY

Date Forwarded: 4/27/95

Laboratory Reviewer Signature: J. Hurley

D582074

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : DS82074
SAMPLING POINT DESC. : X124/ST. CLAIR/WASH PARK/BUTLER DRUM

SUBMITTING SOURCE # : SITE # : 1631450006
DATE COLLECTED : 950422 TIME COLLECTED : 0953 SAMPLING PROGRAM :

COLLECTED BY : L. PORTER DELIVERED BY : UPS
COMMENTS : VOCS
FUNDING CODE : LP52 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 1 REPORTING INDICATOR : B

DATE RECEIVED : 950425 TIME RECEIVED : 0920 RECEIVED BY : G S
LAB OBSERVATIONS : 1-4 OZ CLAY TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

5418	CHLOROMETHANE	UG/KG	: 10K
5413	BROMOMETHANE	UG/KG	: 10K
A39175	VINYL CHLORIDE	UG/KG	: 10K
A34311	CHLOROETHANE	UG/KG	: 10K
A34423	METHYLENE CHLORIDE	UG/KG	: 53
A81552	ACETONE	UG/KG	: 120
A34488	TRICHLOROFLUOROMETHANE	UG/KG	: 5.0K
7277	BROMOCHLOROMETHANE	UG/KG	: 5.0K
A77041	CARBON DISULFIDE	UG/KG	: 5.0K
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0K
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0K
A34546	TRANS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A77093	CIS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A32106	CHLOROFORM	UG/KG	: 5.0K
531	1,2-DICHLOROETHANE	UG/KG	: 5.0K
595	2-BUTANONE(MEK)	UG/KG	: 10K
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0K
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0K
A77057	VINYL ACETATE	UG/KG	: 10K
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0K
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0K
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0K
A32105	CHLORODIBROMOMETHANE	UG/KG	: 5.0K
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0K
A78124	BENZENE	UG/KG	: 5.0K
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A34576	2-CHLOROETHYLVINYL ETHER	UG/KG	: 5.0K
2104	BROMOFORM	UG/KG	: 5.0K

.PLE NUMBER : 0582074

A78133	4-METHYL-2-PENTANONE(MIBK)	UG/KG	: 10K
A77103	2-HEXANONE(MBK)	UG/KG	: 10K
A34475	TETRACHLOROETHYLENE	UG/KG	: 5.0K
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0K
A78131	TOLUENE	UG/KG	: 5.0K
A34301	CHLOROBENZENE	UG/KG	: 5.0K
A78113	ETHYL BENZENE	UG/KG	: 5.0K
A77128	STYRENE	UG/KG	: 5.0K
A81551	XYLENE	UG/KG	: 5.0K
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
P00431	ALKALINITY,TOTAL	MG/L	: --
P00090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

CG
4/27/95

DLPC SPECIAL ANALYSIS FORM

163145000 6 - ST. CLAIR
IEPA ID # County

Washington Park / Butler Drum
Site Name

USEPA ID #

Field Sample #: X125

FOS

Lab Location
Champaign __
Chicago __
Springfield __

Lab #: D582075

Date Received: APR 25 1995

Time Received: 0950 VF

Received By: GS

Date Collected: 4/22/95 Time Collected: 1000

Program Code: LP52 Unit Code: 486

Sampling Purpose: (01-Sp. Req.) (02-DCI) (03-Emerg. Resp.) (04-Routine Sampling)

Source of Sample (Exact Location): X 125 at 3 feet below ground surface.

Physical Observations, Remarks: Brown Silty Clay

Tests Requested: VOC's

7 Day Turnaround

Retain samples until released by responsible authority (Yes) (No)

Collected By: T. Porter Transported By: UPS

LABORATORY

Date Forwarded: 4/27/95

Laboratory Reviewer Signature: Gary Hurley

D582075

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D582075
SAMPLING POINT DESC. : X125/ST. CLAIR/WASH PARK/BUTLER DRUM

SUBMITTING SOURCE # : SITE # : 1631450006
DATE COLLECTED : 950422 TIME COLLECTED : 1000 SAMPLING PROGRAM :

COLLECTED BY : L. PORTER DELIVERED BY : UPS
COMMENTS : VOCS
FUNDING CODE : LP52 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 1 REPORTING INDICATOR : B

DATE RECEIVED : 950425 TIME RECEIVED : 0920 RECEIVED BY : G S
LAB OBSERVATIONS : 1-4 OZ CLAY TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

4418	CHLOROMETHANE	UG/KG	: 10K
4413	BROMOMETHANE	UG/KG	: 10K
A39175	VINYL CHLORIDE	UG/KG	: 10K
A34311	CHLOROETHANE	UG/KG	: 10K
A34423	METHYLENE CHLORIDE	UG/KG	: 39
A81552	ACETONE	UG/KG	: 10
A34488	TRICHLOROFLUOROMETHANE	UG/KG	: 5.0K
77277	BROMOCHLOROMETHANE	UG/KG	: 5.0K
A77041	CARBON DISULFIDE	UG/KG	: 5.0K
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0K
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0K
A34546	TRANS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A77093	CIS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A32106	CHLOROFORM	UG/KG	: 5.0K
34531	1,2-DICHLOROETHANE	UG/KG	: 5.0K
31595	2-BUTANONE(MEK)	UG/KG	: 10K
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0K
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0K
A77057	VINYL ACETATE	UG/KG	: 10K
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0K
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0K
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0K
A32105	CHLORODIBROMOMETHANE	UG/KG	: 5.0K
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0K
A78124	BENZENE	UG/KG	: 5.0K
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A34576	2-CHLOROETHYLVINYL ETHER	UG/KG	: 5.0K
32104	BROMOFORM	UG/KG	: 5.0K

S LE NUMBER : D582075

A78133	4-METHYL-2-PENTANONE(MIBK)	UG/KG	: 10K
A77103	2-HEXANONE(MBK)	UG/KG	: 10K
A34475	TETRACHLOROETHYLENE	UG/KG	: 5.0K
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0K
A78131	TOLUENE	UG/KG	: 5.0K
A34301	CHLOROBENZENE	UG/KG	: 5.0K
A78113	ETHYL BENZENE	UG/KG	: 5.0K
A77128	STYRENE	UG/KG	: 5.0K
A81551	XYLENE	UG/KG	: 5.0K
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
0431	ALKALINITY,TOTAL	MG/L	: --
0090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

CC
4/27/95

DLPC SPECIAL ANALYSIS FORM

1631460006 - St. Clair
IEPA ID # County

Washington Park / Butler Drum Site
Site Name

USEPA ID #
FOS

Field Sample #: X128

Lab Location
Champaign ___
Chicago ___
Springfield X

Lab #: D582078

Date Received APR 25 1995
Time Received APR 25 1995
Received By: [illegible]

Date Collected: 4/22/95 Time Collected: 10:54

Program Code: L52 Unit Code: 486

Sampling Purpose: (01-Sp. Req.) (02-DCI) (03-Emerg. Resp.) (04-Routine Sampling)

Source of Sample (Exact Location): X128 at 6 feet below ground surface.

Physical Observations, Remarks: Brown silty clay

Tests Requested: Voc's

7 Day turnaround

Retain samples until released by responsible authority (Yes) (No)

Collected By: L. Porter Transported By: UPS

LABORATORY

Date Forwarded: 4/27/95

Laboratory Reviewer Signature: [illegible] Hurley

D582078

Printed on Recycled Paper

IL 532 2311

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D582078
SAMPLING POINT DESC. : X128/ST. CLAIR/WASH PARK/BUTLER DRUM

SUBMITTING SOURCE # : SITE # : 1631450006
DATE COLLECTED : 950422 TIME COLLECTED : 1054 SAMPLING PROGRAM :

COLLECTED BY : L. PORTER DELIVERED BY : UPS
COMMENTS : VOCS
FUNDING CODE : LP52 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 1 REPORTING INDICATOR : B

DATE RECEIVED : 950425 TIME RECEIVED : 0920 RECEIVED BY : G S
LAB OBSERVATIONS : 1-4 OZ CLAY TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

[illegible]4418	CHLOROMETHANE	UG/KG	: 10K
[illegible]4413	BROMOMETHANE	UG/KG	: 10K
A39175	VINYL CHLORIDE	UG/KG	: 10K
A34311	CHLOROETHANE	UG/KG	: 10K
A34423	METHYLENE CHLORIDE	UG/KG	: 110
A81552	ACETONE	UG/KG	: 30
A34488	TRICHLOROFLUOROMETHANE	UG/KG	: 5.0K
7277	BROMOCHLOROMETHANE	UG/KG	: 5.0K
[illegible]7041	CARBON DISULFIDE	UG/KG	: 5.0K
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0K
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0K
A34546	TRANS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A77093	CIS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A32106	CHLOROFORM	UG/KG	: 5.0K
A34531	1,2-DICHLOROETHANE	UG/KG	: 5.0K
[illegible]1595	2-BUTANONE(MEK)	UG/KG	: 10K
A34506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0K
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0K
A77057	VINYL ACETATE	UG/KG	: 10K
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0K
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0K
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0K
A32105	CHLORODIBROMOMETHANE	UG/KG	: 5.0K
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0K
A78124	BENZENE	UG/KG	: 5.0K
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A34576	2-CHLOROETHYLVINYL ETHER	UG/KG	: 5.0K
`2104	BROMOFORM	UG/KG	: 5.0K

PLE NUMBER : D582078

A78133	4-METHYL-2-PENTANONE(MIBK)	UG/KG	: 10K
A77103	2-HEXANONE(MBK)	UG/KG	: 10K
A34475	TETRACHLOROETHYLENE	UG/KG	: 41
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0K
A78131	TOLUENE	UG/KG	: 5.0K
A34301	CHLOROBENZENE	UG/KG	: 5.0K
A78113	ETHYL BENZENE	UG/KG	: 5.0K
A77128	STYRENE	UG/KG	: 5.0K
A81551	XYLENE	UG/KG	: 5.0K
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
0431	ALKALINITY,TOTAL	MG/L	: --
0090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

4/27/95

DLPC SPECIAL ANALYSIS FORM

1631450006 - St. Clair Co.
IEPA ID # County

Washington Park / Butler Drum
Site Name

USEPA ID #
FOS

Field Sample #: X130

Lab Location
Champaign __
Chicago __
Springfield x

Lab #: D582079

Date Received: APR 25 1995
Time Received: 0920 CP
Received By: GS

Date Collected: 4/22/95 Time Collected: 11:30

Program Code: LPS2 Unit Code: 486

Sampling Purpose: (01-Sp. Req.) (02-DCI) (03-Emerg. Resp.) (04-Routine Sampling)

Source of Sample (Exact Location): X130 at 6 feet below ground surface

Physical Observations, Remarks: Brown silty clay

Tests Requested: Voc's

7 Day Turnaround

Retain samples until released by responsible authority (Yes) (No)

Collected By: L. Porter Transported By: UPS

LABORATORY

Date Forwarded: 4/27/95

Laboratory Reviewer Signature: J. Hurley

D582079

Printed on Recycled Paper

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : 0582079
SAMPLING POINT DESC. : X130/ST. CLAIR/WASH PARK/BUTLER DRUM

SUBMITTING SOURCE # : SITE # : 1631450006
DATE COLLECTED : 950422 TIME COLLECTED : 1130 SAMPLING PROGRAM :

COLLECTED BY : L. PORTER DELIVERED BY : UPS
COMMENTS : VOCS
FUNDING CODE : LP52 AGENCY ROUTING : -- UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 1 REPORTING INDICATOR : B

DATE RECEIVED : 950425 TIME RECEIVED : 0920 RECEIVED BY : G S
LAB OBSERVATIONS : 1-4 OZ CLAY TRIP BL SAM# :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

A34418	CHLOROMETHANE	UG/KG	: 10K
413	BROMOMETHANE	UG/KG	: 10K
[illegible]175	VINYL CHLORIDE	UG/KG	: 10K
A34311	CHLOROETHANE	UG/KG	: 10K
A34423	METHYLENE CHLORIDE	UG/KG	: 63
A81552	ACETONE	UG/KG	: 43
A34488	TRICHLOROFLUOROMETHANE	UG/KG	: 5.0K
A77277	BROMOCHLOROMETHANE	UG/KG	: 5.0K
7041	CARBON DISULFIDE	UG/KG	: 5.0K
A34501	1,1-DICHLOROETHYLENE	UG/KG	: 5.0K
A34496	1,1-DICHLOROETHANE	UG/KG	: 5.0K
A34546	TRANS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A77093	CIS-1,2-DICHLOROETHYLENE	UG/KG	: 5.0K
A32106	CHLOROFORM	UG/KG	: 5.0K
A34531	1,2-DICHLOROETHANE	UG/KG	: 5.0K
595	2-BUTANONE(MEK)	UG/KG	: 10K
[illegible]506	1,1,1-TRICHLOROETHANE	UG/KG	: 5.0K
A32102	CARBON TETRACHLORIDE	UG/KG	: 5.0K
A77057	VINYL ACETATE	UG/KG	: 10K
A32101	DICHLOROBROMOMETHANE	UG/KG	: 5.0K
A34541	1,2-DICHLOROPROPANE	UG/KG	: 5.0K
A34704	CIS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A39180	TRICHLOROETHYLENE	UG/KG	: 5.0K
A32105	CHLORODIBROMOMETHANE	UG/KG	: 5.0K
A34511	1,1,2-TRICHLOROETHANE	UG/KG	: 5.0K
A78124	BENZENE	UG/KG	: 5.0K
A34699	TRANS-1,3-DICHLOROPROPENE	UG/KG	: 5.0K
A34576	2-CHLOROETHYLVINYL ETHER	UG/KG	: 5.0K
A32104	BROMOFORM	UG/KG	: 5.0K

SA _E NUMBER : D582079

A78133	4-METHYL-2-PENTANONE(MIBK)	UG/KG	: 10K
A77103	2-HEXANONE(MBK)	UG/KG	: 10K
A34475	TETRACHLOROETHYLENE	UG/KG	: 10
A34516	1,1,2,2-TETRACHLOROETHANE	UG/KG	: 5.0K
A78131	TOLUENE	UG/KG	: 5.0K
A34301	CHLOROBENZENE	UG/KG	: 5.0K
A78113	ETHYL BENZENE	UG/KG	: 5.0K
A77128	STYRENE	UG/KG	: 5.0K
A81551	XYLENE	UG/KG	: 5.0K
P72019	DEPTH TO WATER	FT	: --
P71993	ELEV.OF GW SURFACE	FT	: --
P72008	WELL DEPTH,TOTAL	FT	: --
431	ALKALINITY,TOTAL	MG/L	: --
_090	REDOX POTEN.-FIELD	MV	: --
P00400	PH,FIELD	UNITS	: --
P00094	COND.(EC)FIELD	UM/CM	: --
P00010	TEMPERATURE,WATER	DEG.C	: --

ILLINOIS ENVIRONMENTAL PROTECTON AGENCY

P.O. BOX 19276, 2200 CHURCHILL
SPRINGFIELD, IL 62794-9276

Remedial Project Management Section

DATE: June 1 1995 TIME: 10:25am

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FROM: Tammy Smith / Tom Miller

MEMO: Butler Results

OFFICE PHONE NUMBER: 217-785-8410

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JUN 0 1 1995

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ARDL Inc. applied research & development laboratory

CHEMISTRY • BIOLOGY • PHYSIOLOGY
ENGINEERING • ENVIRONMENTAL ANALYSIS

FAX TRANSMISSION SHEET

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COMPANY NAME:	IEPA
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ARDL FAX # (618) 244-1149

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WASHINGTON PARK / BUTLER DRUM

P.O. Box 1566 • Mt. Vernon Airport, Route 15 East • Mt. Vernon, Illinois 62864 • (618) 244-3235 • FAX (618) 244-11
"Test Everything - Keep The Good" 1 Thes. 5:21

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X134-0.3

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >D2063

Level: (low/med) MED Date Received: 5/25/95

% Moisture: not dec. 26 Date Analyzed: 5/30/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1600.	U
74-83-9	Bromomethane	1600.	U
75-01-4	Vinyl Chloride	1600.	U
75-00-3	Chloroethane	1600.	U
75-09-2	Methylene Chloride	1300.	JB
67-64-1	Acetone	1500.	JB
75-15-0	Carbon Disulfide	1600.	U
75-35-4	1,1-Dichloroethene	1600.	U
75-34-3	1,1-Dichloroethane	1600.	U
540-59-0	1,2-Dichloroethene (total)	2800.	
67-66-3	Chloroform	1600.	U
107-06-2	1,2-Dichloroethane	1600.	U
78-93-3	2-Butanone	1600.	U
71-55-6	1,1,1-Trichloroethane	1600.	U
56-23-5	Carbon Tetrachloride	1600.	U
75-27-4	Bromodichloromethane	1600.	U
78-87-5	1,2-Dichloropropane	1600.	U
10061-01-5	cis-1,3-Dichloropropene	1600.	U
79-01-6	Trichloroethene	1600.	U
124-48-1	Dibromochloromethane	1600.	U
79-00-5	1,1,2-Trichloroethane	1600.	U
71-43-2	Benzene	1600.	U
10061-02-6	trans-1,3-Dichloropropene	1600.	U
75-25-2	Bromoform	1600.	U
108-10-1	4-Methyl-2-Pentanone	1600.	U
591-78-6	2-Hexanone	1600.	U
127-18-4	Tetrachloroethene	1600.	U
79-34-5	1,1,2,2-Tetrachloroethane	1600.	U
108-88-3	Toluene	1600.	U
108-90-7	Chlorobenzene	1600.	U
100-41-4	Ethylbenzene	1600.	U
100-42-5	Styrene	1600.	U
1330-20-7	Xylene (total)	1600.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X134-0.3

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >D2063

Level: (low/med) MED Date Received: 5/25/95

% Moisture: not dec. 26 Date Analyzed: 5/30/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X134-0.3

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-01

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D2041

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 26 Date Analyzed: 5/26/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	68.	U
74-83-9	Bromomethane	68.	U
75-01-4	Vinyl Chloride	68.	U
75-00-3	Chloroethane	68.	U
75-09-2	Methylene Chloride	31.	JB
67-64-1	Acetone	140.	B
75-15-0	Carbon Disulfide	68.	U
75-35-4	1,1-Dichloroethene	68.	U
75-34-3	1,1-Dichloroethane	68.	U
540-59-0	1,2-Dichloroethene (total)	4300.	E
67-66-3	Chloroform	68.	U
107-06-2	1,2-Dichloroethane	68.	U
78-93-3	2-Butanone	68.	U
71-55-6	1,1,1-Trichloroethane	68.	U
56-23-5	Carbon Tetrachloride	68.	U
75-27-4	Bromodichloromethane	68.	U
78-87-5	1,2-Dichloropropane	68.	U
10061-01-5	cis-1,3-Dichloropropene	68.	U
79-01-6	Trichloroethene	68.	U
124-48-1	Dibromochloromethane	68.	U
79-00-5	1,1,2-Trichloroethane	68.	U
71-43-2	Benzene	68.	U
10061-02-6	trans-1,3-Dichloropropene	68.	U
75-25-2	Bromoform	68.	U
108-10-1	4-Methyl-2-Pentanone	68.	U
591-78-6	2-Hexanone	68.	U
127-18-4	Tetrachloroethene	68.	U
79-34-5	1,1,2,2-Tetrachloroethane	68.	U
108-88-3	Toluene	68.	U
108-90-7	Chlorobenzene	68.	U
100-41-4	Ethylbenzene	68.	U
100-42-5	Styrene	68.	U
1330-20-7	Xylene (total)	68.	U

JUN 01 1995

FAXED

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X134-0.3

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-01

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D2041

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 26 Date Analyzed: 5/26/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	28.17	60.	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X134-0.5

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >D2060

Level: (low/med) MED Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/30/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1700.	U
74-83-9	Bromomethane	1700.	U
75-01-4	Vinyl Chloride	1700.	U
75-00-3	Chloroethane	1700.	U
75-09-2	Methylene Chloride	1500.	JB
67-64-1	Acetone	2700.	B
75-15-0	Carbon Disulfide	1700.	U
75-35-4	1,1-Dichloroethene	1700.	U
75-34-3	1,1-Dichloroethane	1700.	U
540-59-0	1,2-Dichloroethene (total)	2200.	
67-66-3	Chloroform	1700.	U
107-06-2	1,2-Dichloroethane	1700.	U
78-93-3	2-Butanone	1700.	U
71-55-6	1,1,1-Trichloroethane	1700.	U
56-23-5	Carbon Tetrachloride	1700.	U
75-27-4	Bromodichloromethane	1700.	U
78-87-5	1,2-Dichloropropane	1700.	U
10061-01-5	cis-1,3-Dichloropropene	1700.	U
79-01-6	Trichloroethene	1700.	U
124-48-1	Dibromochloromethane	1700.	U
79-00-5	1,1,2-Trichloroethane	1700.	U
71-43-2	Benzene	1700.	U
10061-02-6	trans-1,3-Dichloropropene	1700.	U
75-25-2	Bromoform	1700.	U
108-10-1	4-Methyl-2-Pentanone	1700.	U
591-78-6	2-Hexanone	1700.	U
127-18-4	Tetrachloroethene	660.	J
79-34-5	1,1,2,2-Tetrachloroethane	1700.	U
108-88-3	Toluene	1700.	U
108-90-7	Chlorobenzene	1700.	U
100-41-4	Ethylbenzene	1700.	U
100-42-5	Styrene	1700.	U
1330-20-7	Xylene (total)	1700.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X134-0.5

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >D2060

Level: (low/med) MED Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/30/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X134-0.5

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-02

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D2047

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/26/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	69.	U
74-83-9	Bromomethane	69.	U
75-01-4	Vinyl Chloride	69.	U
75-00-3	Chloroethane	69.	U
75-09-2	Methylene Chloride	60.	JB
67-64-1	Acetone	60.	JB
75-15-0	Carbon Disulfide	69.	U
75-35-4	1,1-Dichloroethene	69.	U
75-34-3	1,1-Dichloroethane	69.	U
540-59-0	1,2-Dichloroethene (total)	4800.	E
67-66-3	Chloroform	69.	U
107-06-2	1,2-Dichloroethane	69.	U
78-93-3	2-Butanone	69.	U
71-55-6	1,1,1-Trichloroethane	69.	U
56-23-5	Carbon Tetrachloride	69.	U
75-27-4	Bromodichloromethane	69.	U
78-87-5	1,2-Dichloropropane	69.	U
10061-01-5	cis-1,3-Dichloropropene	69.	U
79-01-6	Trichloroethene	95.	
124-48-1	Dibromochloromethane	69.	U
79-00-5	1,1,2-Trichloroethane	69.	U
71-43-2	Benzene	69.	U
10061-02-6	trans-1,3-Dichloropropene	69.	U
75-25-2	Bromoform	69.	U
108-10-1	4-Methyl-2-Pentanone	69.	U
591-78-6	2-Hexanone	69.	U
127-18-4	Tetrachloroethene	240.	
79-34-5	1,1,2,2-Tetrachloroethane	69.	U
108-88-3	Toluene	69.	U
108-90-7	Chlorobenzene	69.	U
100-41-4	Ethylbenzene	68.	U
100-42-5	Styrene	69.	U
1330-20-7	Xylene (total)	69.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X134-0.5

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-02

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D2047

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/26/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X136-0.3

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D2043

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 26 Date Analyzed: 5/26/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14.	U
74-83-9	Bromomethane	14.	U
75-01-4	Vinyl Chloride	14.	U
75-00-3	Chloroethane	14.	U
75-09-2	Methylene Chloride	9.	JB
67-64-1	Acetone	37.	B
75-15-0	Carbon Disulfide	14.	U
75-35-4	1,1-Dichloroethene	14.	U
75-34-3	1,1-Dichloroethane	14.	U
540-59-0	1,2-Dichloroethene (total)	270.	
67-66-3	Chloroform	14.	U
107-06-2	1,2-Dichloroethane	14.	U
78-93-3	2-Butanone	14.	U
71-55-6	1,1,1-Trichloroethane	14.	U
56-23-5	Carbon Tetrachloride	14.	U
75-27-4	Bromodichloromethane	14.	U
78-87-5	1,2-Dichloropropane	14.	U
10061-01-5	cis-1,3-Dichloropropene	14.	U
79-01-6	Trichloroethene	7.	J
124-48-1	Dibromochloromethane	14.	U
79-00-5	1,1,2-Trichloroethane	14.	U
71-43-2	Benzene	14.	U
10061-02-6	trans-1,3-Dichloropropene	14.	U
75-25-2	Bromoform	14.	U
108-10-1	4-Methyl-2-Pentanone	14.	U
591-78-6	2-Hexanone	14.	U
127-18-4	Tetrachloroethene	18.	
79-34-5	1,1,2,2-Tetrachloroethane	14.	U
108-88-3	Toluene	14.	U
108-90-7	Chlorobenzene	14.	U
100-41-4	Ethylbenzene	14.	U
100-42-5	Styrene	14.	U
1330-20-7	Xylene (total)	14.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X136-0.3

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-03

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D2043

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 26 Date Analyzed: 5/26/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	26.51	10.	J
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X136-0.5

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D2044

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/26/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14.	U
74-83-9	Bromomethane	14.	U
75-01-4	Vinyl Chloride	14.	U
75-00-3	Chloroethane	14.	U
75-09-2	Methylene Chloride	11.	JB
67-64-1	Acetone	29.	B
75-15-0	Carbon Disulfide	14.	U
75-35-4	1,1-Dichloroethene	14.	U
75-34-3	1,1-Dichloroethane	14.	U
540-59-0	1,2-Dichloroethene (total)	650.	E
67-66-3	Chloroform	14.	U
107-06-2	1,2-Dichloroethane	14.	U
78-93-3	2-Butanone	14.	U
71-55-6	1,1,1-Trichloroethane	14.	U
56-23-5	Carbon Tetrachloride	14.	U
75-27-4	Bromodichloromethane	14.	U
78-87-5	1,2-Dichloropropane	14.	U
10061-01-5	cis-1,3-Dichloropropene	14.	U
79-01-6	Trichloroethene	59.	
124-48-1	Dibromochloromethane	14.	U
79-00-5	1,1,2-Trichloroethane	14.	U
71-43-2	Benzene	14.	U
10061-02-6	trans-1,3-Dichloropropene	14.	U
75-25-2	Bromoform	14.	U
108-10-1	4-Methyl-2-Pentanone	14.	U
591-78-6	2-Hexanone	14.	U
127-18-4	Tetrachloroethene	44.	
79-34-5	1,1,2,2-Tetrachloroethane	14.	U
108-88-3	Toluene	14.	U
108-90-7	Chlorobenzene	14.	U
100-41-4	Ethylbenzene	14.	U
100-42-5	Styrene	14.	U
1330-20-7	Xylene (total)	14.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X136-0.5

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-04

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D2044

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/26/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	25.17	7.	J
2.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X136-0.5DL

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-04DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D2048

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/26/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	69.	U D
74-83-9	Bromomethane	69.	U D
75-01-4	Vinyl Chloride	69.	U D
75-00-3	Chloroethane	69.	U D
75-09-2	Methylene Chloride	68.	JBD
67-64-1	Acetone	57.	JBD
75-15-0	Carbon Disulfide	69.	U D
75-35-4	1,1-Dichloroethene	69.	U D
75-34-3	1,1-Dichloroethane	69.	U D
540-59-0	1,2-Dichloroethene (total)	520.	D
67-66-3	Chloroform	69.	U D
107-06-2	1,2-Dichloroethane	69.	U D
78-93-3	2-Butanone	69.	U D
71-55-6	1,1,1-Trichloroethane	69.	U D
56-23-5	Carbon Tetrachloride	69.	U D
75-27-4	Bromodichloromethane	69.	U D
78-87-5	1,2-Dichloropropane	69.	U D
10061-01-5	cis-1,3-Dichloropropene	69.	U D
79-01-6	Trichloroethene	38.	J D
124-48-1	Dibromochloromethane	69.	U D
79-00-5	1,1,2-Trichloroethane	69.	U D
71-43-2	Benzene	69.	U D
10061-02-6	trans-1,3-Dichloropropene	69.	U D
75-25-2	Bromoform	69.	U D
108-10-1	4-Methyl-2-Pentanone	69.	U D
591-78-6	2-Hexanone	69.	U D
127-18-4	Tetrachloroethene	32.	J D
79-34-5	1,1,2,2-Tetrachloroethane	69.	U D
108-88-3	Toluene	69.	U D
108-90-7	Chlorobenzene	69.	U D
100-41-4	Ethylbenzene	69.	U D
100-42-5	Styrene	69.	U D
1330-20-7	Xylene (total)	69.	U D

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X136-0.5DL

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-04DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D2048

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/26/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.34	40.	J D
2.	UNKNOWN	32.78	400.	J D
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X137-0.3

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D2045

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 26 Date Analyzed: 5/26/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14.	U
74-83-9	Bromomethane	14.	U
75-01-4	Vinyl Chloride	14.	U
75-00-3	Chloroethane	14.	U
75-09-2	Methylene Chloride	6.	JB
67-64-1	Acetone	28.	B
75-15-0	Carbon Disulfide	14.	U
75-35-4	1,1-Dichloroethene	14.	U
75-34-3	1,1-Dichloroethane	14.	U
540-59-0	1,2-Dichloroethene (total)	57.	
67-66-3	Chloroform	14.	U
107-06-2	1,2-Dichloroethane	14.	U
78-93-3	2-Butanone	14.	U
71-55-6	1,1,1-Trichloroethane	14.	U
56-23-5	Carbon Tetrachloride	14.	U
75-27-4	Bromodichloromethane	14.	U
78-87-5	1,2-Dichloropropane	14.	U
10061-01-5	cis-1,3-Dichloropropene	14.	U
79-01-6	Trichloroethene	120.	
124-48-1	Dibromochloromethane	14.	U
79-00-5	1,1,2-Trichloroethane	14.	U
71-43-2	Benzene	14.	U
10061-02-6	trans-1,3-Dichloropropene	14.	U
75-25-2	Bromoform	14.	U
108-10-1	4-Methyl-2-Pentanone	14.	U
591-78-6	2-Hexanone	14.	U
127-18-4	Tetrachloroethene	1300.	E
79-34-5	1,1,2,2-Tetrachloroethane	14.	U
108-88-3	Toluene	14.	U
108-90-7	Chlorobenzene	14.	U
100-41-4	Ethylbenzene	14.	U
100-42-5	Styrene	14.	U
1330-20-7	Xylene (total)	14.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X137-0.3

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-05

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D2045

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 26 Date Analyzed: 5/26/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	24.02	20.	J
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X137-0.3DL

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-05DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D2051

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 26 Date Analyzed: 5/26/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	68.	U D
74-83-9	Bromomethane	68.	U D
75-01-4	Vinyl Chloride	68.	U D
75-00-3	Chloroethane	68.	U D
75-09-2	Methylene Chloride	50.	JBD
67-64-1	Acetone	41.	JBD
75-15-0	Carbon Disulfide	68.	U D
75-35-4	1,1-Dichloroethene	68.	U D
75-34-3	1,1-Dichloroethane	68.	U D
540-59-0	1,2-Dichloroethene (total)	50.	J D
67-66-3	Chloroform	68.	U D
107-06-2	1,2-Dichloroethane	68.	U D
78-93-3	2-Butanone	68.	U D
71-55-6	1,1,1-Trichloroethane	68.	U D
56-23-5	Carbon Tetrachloride	68.	U D
75-27-4	Bromodichloromethane	68.	U D
78-87-5	1,2-Dichloropropane	68.	U D
10061-01-5	cis-1,3-Dichloropropene	68.	U D
79-01-6	Trichloroethene	46.	J D
124-48-1	Dibromochloromethane	68.	U D
79-00-5	1,1,2-Trichloroethane	68.	U D
71-43-2	Benzene	68.	U D
10061-02-6	trans-1,3-Dichloropropene	68.	U D
75-25-2	Bromoform	68.	U D
108-10-1	4-Methyl-2-Pentanone	68.	U D
591-78-6	2-Hexanone	68.	U D
127-18-4	Tetrachloroethene	640.	D
79-34-5	1,1,2,2-Tetrachloroethane	68.	U D
108-88-3	Toluene	68.	U D
108-90-7	Chlorobenzene	68.	U D
100-41-4	Ethylbenzene	68.	U D
100-42-5	Styrene	68.	U D
1330-20-7	Xylene (total)	68.	U D

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X137-0.3DL

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-05DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D2051

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 26 Date Analyzed: 5/26/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X137-0.5

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D2046

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/26/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14.	U
74-83-9	Bromomethane	14.	U
75-01-4	Vinyl Chloride	14.	U
75-00-3	Chloroethane	14.	U
75-09-2	Methylene Chloride	7.	JB
67-64-1	Acetone	30.	B
75-15-0	Carbon Disulfide	14.	U
75-35-4	1,1-Dichloroethene	14.	U
75-34-3	1,1-Dichloroethane	14.	U
540-59-0	1,2-Dichloroethene (total)	280.	
67-66-3	Chloroform	14.	U
107-06-2	1,2-Dichloroethane	14.	U
78-93-3	2-Butanone	14.	U
71-55-6	1,1,1-Trichloroethane	14.	U
56-23-5	Carbon Tetrachloride	14.	U
75-27-4	Bromodichloromethane	14.	U
78-87-5	1,2-Dichloropropane	14.	U
10061-01-5	cis-1,3-Dichloropropene	14.	U
79-01-6	Trichloroethene	270.	
124-48-1	Dibromochloromethane	14.	U
79-00-5	1,1,2-Trichloroethane	14.	U
71-43-2	Benzene	14.	U
10061-02-6	trans-1,3-Dichloropropene	14.	U
75-25-2	Bromoform	14.	U
108-10-1	4-Methyl-2-Pentanone	14.	U
591-78-6	2-Hexanone	14.	U
127-18-4	Tetrachloroethene	1400.	E
79-34-5	1,1,2,2-Tetrachloroethane	14.	U
108-88-3	Toluene	14.	U
108-90-7	Chlorobenzene	14.	U
100-41-4	Ethylbenzene	14.	U
100-42-5	Styrene	14.	U
1330-20-7	Xylene (total)	14.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X137-0.5

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-06

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D2046

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/26/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
X137-0.5DL

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-06DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D2052

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/26/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	69.	U D
74-83-9	Bromomethane	69.	U D
75-01-4	Vinyl Chloride	69.	U D
75-00-3	Chloroethane	69.	U D
75-09-2	Methylene Chloride	69.	JBD
67-64-1	Acetone	51.	JBD
75-15-0	Carbon Disulfide	69.	U D
75-35-4	1,1-Dichloroethene	69.	U D
75-34-3	1,1-Dichloroethane	69.	U D
540-59-0	1,2-Dichloroethene (total)	180.	D
67-66-3	Chloroform	69.	U D
107-06-2	1,2-Dichloroethane	69.	U D
78-93-3	2-Butanone	69.	U D
71-55-6	1,1,1-Trichloroethane	69.	U D
56-23-5	Carbon Tetrachloride	69.	U D
75-27-4	Bromodichloromethane	69.	U D
78-87-5	1,2-Dichloropropane	69.	U D
10061-01-5	cis-1,3-Dichloropropene	69.	U D
79-01-6	Trichloroethene	140.	D
124-48-1	Dibromochloromethane	69.	U D
79-00-5	1,1,2-Trichloroethane	69.	U D
71-43-2	Benzene	69.	U D
10061-02-6	trans-1,3-Dichloropropene	69.	U D
75-25-2	Bromoform	69.	U D
108-10-1	4-Methyl-2-Pentanone	69.	U D
591-78-6	2-Hexanone	69.	U D
127-18-4	Tetrachloroethene	1200.	D
79-34-5	1,1,2,2-Tetrachloroethane	69.	U D
108-88-3	Toluene	69.	U D
108-90-7	Chlorobenzene	69.	U D
100-41-4	Ethylbenzene	69.	U D
100-42-5	Styrene	69.	U D
1330-20-7	Xylene (total)	69.	U D

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X137-0.5DL

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-06DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >D2052

Level: (low/med) LOW Date Received: 5/25/95

% Moisture: not dec. 28 Date Analyzed: 5/26/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKB1

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-01B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D2040

Level: (low/med) LOW Date Received: NA

% Moisture: not dec. --- Date Analyzed: 5/26/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	6.	J
67-64-1	Acetone	6.	J
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	10.	U
75-34-3	1,1-Dichloroethane	10.	U
540-59-0	1,2-Dichloroethane (total)	10.	U
67-66-3	Chloroform	10.	U
107-06-2	1,2-Dichloroethane	10.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
56-23-5	Carbon Tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
79-01-6	Trichloroethene	10.	U
124-48-1	Dibromochloromethane	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
71-43-2	Benzene	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U
75-25-2	Bromoform	10.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKB1

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-01B1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D2040

Level: (low/med) LOW Date Received: NA

% Moisture: not dec. --- Date Analyzed: 5/26/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKB2

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-01B2

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >D2058

Level: (low/med) MED Date Received: NA

% Moisture: not dec. --- Date Analyzed: 5/30/95

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: 100.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1200.	U
74-83-9	Bromomethane	1200.	U
75-01-4	Vinyl Chloride	1200.	U
75-00-3	Chloroethane	1200.	U
75-09-2	Methylene Chloride	450.	J
67-64-1	Acetone	5000.	
75-15-0	Carbon Disulfide	1200.	U
75-35-4	1,1-Dichloroethene	1200.	U
75-34-3	1,1-Dichloroethane	1200.	U
540-59-0	1,2-Dichloroethene (total)	1200.	U
67-66-3	Chloroform	1200.	U
107-06-2	1,2-Dichloroethane	1200.	U
78-93-3	2-Butanone	1200.	U
71-55-6	1,1,1-Trichloroethane	1200.	U
56-23-5	Carbon Tetrachloride	1200.	U
75-27-4	Bromodichloromethane	1200.	U
78-87-5	1,2-Dichloropropane	1200.	U
10061-01-5	cis-1,3-Dichloropropene	1200.	U
79-01-6	Trichloroethene	1200.	U
124-48-1	Dibromochloromethane	1200.	U
79-00-5	1,1,2-Trichloroethane	1200.	U
71-43-2	Benzene	1200.	U
10061-02-6	trans-1,3-Dichloropropene	1200.	U
75-25-2	Bromoform	1200.	U
108-10-1	4-Methyl-2-Pentanone	1200.	U
591-78-6	2-Hexanone	1200.	U
127-18-4	Tetrachloroethene	1200.	U
79-34-5	1,1,2,2-Tetrachloroethane	1200.	U
108-88-3	Toluene	1200.	U
108-90-7	Chlorobenzene	1200.	U
100-41-4	Ethylbenzene	1200.	U
100-42-5	Styrene	1200.	U
1330-20-7	Xylene (total)	1200.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKB2

Lab Name: ARDL, INC. Contract: WASHINGTON PARK/BD

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X134-0.3

Matrix: (soil/water) SOIL Lab Sample ID: 002384-01B2

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >D2058

Level: (low/med) MED Date Received: NA

% Moisture: not dec. --- Date Analyzed: 5/30/95

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: 100.0 (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Illinois Environmental Protection Agency · 2009 Mall Street, Collinsville, Illinois 62234

Collinsville Regional Office
Telephone: (618) 346-5120
Fax: (618) 346-5155

DATE: 6/14/95

TO: Mike Noble or LeSton Porter

FROM: Tom Miller

MESSAGE:

NUMBER OF PAGES: 13
(Including this cover page)

To Recipient: If all pages are not received, please contact (618) 346-5120.

TEP:cas/5

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X139

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002386-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >T5184

Level: (low/med) LOW Date Received: 6/08/95

% Moisture: not dec. 25 Date Analyzed: 6/09/95

GC column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13.	U
74-83-9	Bromomethane	13.	U
75-01-4	Vinyl Chloride	13.	U
75-00-3	Chloroethane	13.	U
75-09-2	Methylene Chloride	11.	JB
67-64-1	Acetone	81.	
75-15-0	Carbon Disulfide	13.	U
75-35-4	1,1-Dichloroethene	13.	U
75-34-3	1,1-Dichloroethane	13.	U
540-59-0	1,2-Dichloroethene (total)	1700.	E
67-66-3	Chloroform	13.	U
107-06-2	1,2-Dichloroethane	13.	U
78-93-3	2-Butanone	23.	
71-55-6	1,1,1-Trichloroethane	13.	U
56-23-5	Carbon Tetrachloride	13.	U
75-27-4	Bromodichloromethane	13.	U
78-87-5	1,2-Dichloropropane	13.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U
79-01-6	Trichloroethene	13.	U
124-48-1	Dibromochloromethane	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U
71-43-2	Benzene	13.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U
75-25-2	Bromoform	13.	U
108-10-1	4-Methyl-2-Pentanone	13.	U
591-78-6	2-Hexanone	13.	U
127-18-4	Tetrachloroethene	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U
108-88-3	Toluene	13.	U
108-90-7	Chlorobenzene	13.	U
100-41-4	Ethylbenzene	13.	U
100-42-5	Styrene	13.	U
1330-20-7	Xylene (total)	13.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X139

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002386-01

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >T5184

Level: (low/med) LOW Date Received: 6/08/95

% Moisture: not dec. 25 Date Analyzed: 6/09/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 124185	DECANE	20.34	30.	JN
2.	BENZENE, TRIMETHYL-	20.88	20.	J
3.	UNKNOWN	21.46	40.	J
4.	UNKNOWN	21.81	20.	J
5.	UNKNOWN	22.79	40.	J
6. 1120214	UNDECANE	23.05	100.	JN
7.	UNKNOWN	23.68	30.	J
8.	UNKNOWN	25.51	20.	J
9.	UNKNOWN ALKANE	25.95	20.	J
10.	UNKNOWN	27.34	30.	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X139

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002386-01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >T5199

Level: (low/med) MED Date Received: 6/08/95

% Moisture: not dec. 25 Date Analyzed: 6/12/95

GC column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1600.	U
74-83-9	Bromomethane	1600.	U
75-01-4	Vinyl Chloride	1600.	U
75-00-3	Chloroethane	1600.	U
75-09-2	Methylene Chloride	1300.	JB
67-64-1	Acetone	1600.	U
75-15-0	Carbon Disulfide	1600.	U
75-35-4	1,1-Dichloroethene	1600.	U
75-34-3	1,1-Dichloroethane	1600.	U
540-59-0	1,2-Dichloroethene (total)	320.	J
67-66-3	Chloroform	1600.	U
107-06-2	1,2-Dichloroethane	1600.	U
78-93-3	2-Butanone	1600.	U
71-55-6	1,1,1-Trichloroethane	1600.	U
56-23-5	Carbon Tetrachloride	1600.	U
75-27-4	Bromodichloromethane	1600.	U
78-87-5	1,2-Dichloropropane	1600.	U
10061-01-5	cis-1,3-Dichloropropene	1600.	U
79-01-6	Trichloroethene	1600.	U
124-48-1	Dibromochloromethane	1600.	U
79-00-5	1,1,2-Trichloroethane	1600.	U
71-43-2	Benzene	1600.	U
10061-02-6	trans-1,3-Dichloropropene	1600.	U
75-25-2	Bromoform	1600.	U
108-10-1	4-Methyl-2-Pentanone	1600.	U
591-78-6	2-Hexanone	1600.	U
127-18-4	Tetrachloroethene	1600.	U
79-34-5	1,1,2,2-Tetrachloroethane	1600.	U
108-88-3	Toluene	1600.	U
108-90-7	Chlorobenzene	1600.	U
100-41-4	Ethylbenzene	1600.	U
100-42-5	Styrene	1600.	U
1330-20-7	Xylene (total)	1600.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X139

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002386-01

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >T5199

Level: (low/med) MED Date Received: 6/08/95

% Moisture: not dec. 25 Date Analyzed: 6/12/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	23.08	1000.	J
2.	UNKNOWN	24.38	1000.	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X140

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002386-02

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >T5187

Level: (low/med) LOW Date Received: 6/08/95

% Moisture: not dec. 26 Date Analyzed: 6/09/95

GC column: DB-624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	68.	U
74-83-9	Bromomethane	68.	U
75-01-4	Vinyl Chloride	68.	U
75-00-3	Chloroethane	68.	U
75-09-2	Methylene Chloride	68.	U
67-64-1	Acetone	68.	U
75-15-0	Carbon Disulfide	68.	U
75-35-4	1,1-Dichloroethene	68.	U
75-34-3	1,1-Dichloroethane	68.	U
540-59-0	1,2-Dichloroethene (total)	920.	
67-66-3	Chloroform	68.	U
107-06-2	1,2-Dichloroethane	68.	U
78-93-3	2-Butanone	68.	U
71-55-6	1,1,1-Trichloroethane	68.	U
56-23-5	Carbon Tetrachloride	68.	U
75-27-4	Bromodichloromethane	68.	U
78-87-5	1,2-Dichloropropane	68.	U
10061-01-5	cis-1,3-Dichloropropene	68.	U
79-01-6	Trichloroethene	700.	
124-48-1	Dibromochloromethane	68.	U
79-00-5	1,1,2-Trichloroethane	68.	U
71-43-2	Benzene	68.	U
10061-02-6	trans-1,3-Dichloropropene	68.	U
75-25-2	Bromoform	68.	U
108-10-1	4-Methyl-2-Pentanone	68.	U
591-78-6	2-Hexanone	68.	U
127-18-4	Tetrachloroethene	2500.	E
79-34-5	1,1,2,2-Tetrachloroethane	68.	U
108-88-3	Toluene	68.	U
108-90-7	Chlorobenzene	68.	U
100-41-4	Ethylbenzene	68.	U
100-42-5	Styrene	68.	U
1330-20-7	Xylene (total)	68.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X140

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002386-02

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >T5187

Level: (low/med) LOW Date Received: 6/08/95

% Moisture: not dec. 26 Date Analyzed: 6/09/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.52	60.	J B
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X140

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002385-02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >T5200

Level: (low/med) MED Date Received: 6/08/95

% Moisture: not dec. 26 Date Analyzed: 6/12/95

GC column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1600.	U
74-83-9	Bromomethane	1600.	U
75-01-4	Vinyl Chloride	1600.	U
75-00-3	Chloroethane	1600.	U
75-09-2	Methylene Chloride	4700.	B
67-64-1	Acetone	1600.	U
75-15-0	Carbon Disulfide	1600.	U
75-35-4	1,1-Dichloroethene	1600.	U
75-34-3	1,1-Dichloroethane	1600.	U
540-59-0	1,2-Dichloroethene (total)	410.	J
67-66-3	Chloroform	1600.	U
107-06-2	1,2-Dichloroethane	1600.	U
78-93-3	2-Butanone	1600.	U
71-55-6	1,1,1-Trichloroethane	1600.	U
56-23-5	Carbon Tetrachloride	1600.	U
75-27-4	Bromodichloromethane	1600.	U
78-87-5	1,2-Dichloropropane	1600.	U
10061-01-5	cis-1,3-Dichloropropene	1600.	U
79-01-6	Trichloroethene	420.	J
124-48-1	Dibromochloromethane	1600.	U
79-00-5	1,1,2-Trichloroethane	1600.	U
71-43-2	Benzene	1600.	U
10061-02-6	trans-1,3-Dichloropropene	1600.	U
75-25-2	Bromoform	1600.	U
108-10-1	4-Methyl-2-Pentanone	1600.	U
591-78-6	2-Hexanone	1600.	U
127-18-4	Tetrachloroethene	2500.	
79-34-5	1,1,2,2-Tetrachloroethane	1600.	U
108-88-3	Toluene	1600.	U
108-90-7	Chlorobenzene	1600.	U
100-41-4	Ethylbenzene	1600.	U
100-42-5	Styrene	1600.	U
1330-20-7	Xylene (total)	1600.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X140

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002386-02

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >T5200

Level: (low/med) MED Date Received: 6/08/95

% Moisture: not dec. 26 Date Analyzed: 6/12/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X141

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002386-03

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >T5186

Level: (low/med) LOW Date Received: 6/08/95

% Moisture: not dec. 27 Date Analyzed: 6/09/95

GC column: DB-624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	68.	U
74-83-9	Bromomethane	68.	U
75-01-4	Vinyl Chloride	68.	U
75-00-3	Chloroethane	68.	U
75-09-2	Methylene Chloride	68.	U
67-64-1	Acetone	68.	U
75-15-0	Carbon Disulfide	68.	U
75-35-4	1,1-Dichloroethene	68.	U
75-34-3	1,1-Dichloroethane	68.	U
540-59-0	1,2-Dichloroethene (total)	1600.	E
67-66-3	Chloroform	68.	U
107-06-2	1,2-Dichloroethane	68.	U
78-93-3	2-Butanone	68.	U
71-55-6	1,1,1-Trichloroethane	68.	U
56-23-5	Carbon Tetrachloride	68.	U
75-27-4	Bromodichloromethane	68.	U
78-87-5	1,2-Dichloropropane	68.	U
10061-01-5	cis-1,3-Dichloropropene	68.	U
79-01-6	Trichloroethene	1200.	
124-48-1	Dibromochloromethane	68.	U
79-00-5	1,1,2-Trichloroethane	68.	U
71-43-2	Benzene	68.	U
10061-02-6	trans-1,3-Dichloropropene	68.	U
75-25-2	Bromoform	68.	U
108-10-1	4-Methyl-2-Pentanone	68.	U
591-78-6	2-Hexanone	68.	U
127-18-4	Tetrachloroethene	4800.	E
79-34-5	1,1,2,2-Tetrachloroethane	68.	U
108-88-3	Toluene	68.	U
108-90-7	Chlorobenzene	68.	U
100-41-4	Ethylbenzene	68.	U
100-42-5	Styrene	68.	U
1330-20-7	Xylene (total)	68.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X141

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002386-03

Sample wt/vol: 1.0 (g/mL) G Lab File ID: >T5186

Level: (low/med) LOW Date Received: 6/08/95

% Moisture: not dec. 27 Date Analyzed: 6/09/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X141

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002385-03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >T5201

Level: (low/med) MED Date Received: 6/08/95

% Moisture: not dec. 27 Date Analyzed: 6/12/95

GC column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1600.	U
74-83-9	Bromomethane	1600.	U
75-01-4	Vinyl Chloride	1600.	U
75-00-3	Chloroethane	1600.	U
75-09-2	Methylene Chloride	5200.	B
67-64-1	Acetone	1600.	U
75-15-0	Carbon Disulfide	1600.	U
75-35-4	1,1-Dichloroethene	1600.	U
75-34-3	1,1-Dichloroethane	1600.	U
540-59-0	1,2-Dichloroethene (total)	700.	J
67-66-3	Chloroform	1600.	U
107-06-2	1,2-Dichloroethane	1600.	U
78-93-3	2-Butanone	1600.	U
71-55-6	1,1,1-Trichloroethane	1600.	U
56-23-5	Carbon Tetrachloride	1600.	U
75-27-4	Bromodichloromethane	1600.	U
78-87-5	1,2-Dichloropropane	1600.	U
10061-01-5	cis-1,3-Dichloropropene	1600.	U
79-01-6	Trichloroethene	710.	J
124-48-1	Dibromochloromethane	1600.	U
79-00-5	1,1,2-Trichloroethane	1600.	U
71-43-2	Benzene	1600.	U
10061-02-6	trans-1,3-Dichloropropene	1600.	U
75-25-2	Bromoform	1600.	U
108-10-1	4-Methyl-2-Pentanone	1600.	U
591-78-6	2-Hexanone	1600.	U
127-18-4	Tetrachloroethene	7000.	
79-34-5	1,1,2,2-Tetrachloroethane	1600.	U
108-88-3	Toluene	1600.	U
108-90-7	Chlorobenzene	1600.	U
100-41-4	Ethylbenzene	1600.	U
100-42-5	Styrene	1600.	U
1330-20-7	Xylene (total)	1600.	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
X141

Lab Name: ARDL, INC. Contract: WASHINGTON PARK

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X139

Matrix: (soil/water) SOIL Lab Sample ID: 002386-03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >T5201

Level: (low/med) MED Date Received: 6/08/95

% Moisture: not dec. 27 Date Analyzed: 6/12/95

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	24.40	1000.	J
2.				
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APPENDIX E

ANALYTICAL PARAMETERS, DETECTION LIMITS, AND CLEAN UP LEVELS

State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director
2200 Churchill Road, Springfield, IL 62794-9276

DATE: April ~~18~~ 14, 1995

TO: Mike Noble

FROM: Tammy Smith

Subject: Butler/Washington Park

Rec'd 3:00 pm 4/14/95

The following is a list of parameters that should be sampled for in the field and their method and acceptable detection limits. I have also included cleanup numbers for the parameters of concern. Attached you will find analyses for three grab soil samples from the Butler property taken on November 2, 1993.

SW 846 Method 8010	ADL
Perchloroethene (Perchloroetheylene)	.001 ug/l
Trichloroethene (Trichloroethylene)	.001 ug/l
cis-1,2-dichloroethene (ylene)	---
trans-1,2-dichloroethene (ylene)	.002 ug/l
(sometimes the cis and trans are reproted as 1,2-dichloroethene, total)	
Vinyl Chloride	.006 ug/l

The soil cleanup objectives are as follows:

Perchloroethene	0.040	~~0.025~~	mg/kg
Trichloroethene	0.040	~~0.025~~	mg/kg
cis-1,2-dichloroethenc		0.2	mg/kg
trans-1,2-dichloroethene		0.5	mg/kg
vinyl chloride		0.01	mg/kg

Change in soil cleanup objectives recieved from Tammy Smith on 5/9/95. L.P.

Prechloroethene is also known as Tetrachloroethene.

Post-it® Fax Note 7671	Date 4-14-95 # of pages ▶ 1
To Mike Noble	From T. Smith
Co./Dept. Riedel	Co.
Phone #	Phone #
Fax # 314-536-1655	Fax #

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APPENDIX F

WASTE CODE

State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director
217/782-6760

2200 Churchill Road, Springfield, IL 62794-9276

April 20, 1995

Mike Noble
Riedel Environmental Services, Inc.
18207 Edison Avenue
Chesterfield, Missouri 63005-3703

Re: 1631450006 - St. Clair County
Washington Park/Butler
Superfund/Technical Reports

Mr. Noble:

Due to the history of the drummed material stored at the above referenced site, the excavated soil should be considered an F002 listed solvent waste.

Sincerely,

Tammy S. Smith
Project Manager
State Sites Unit
Remedial Project Management Section
Bureau of Land

Post-it® Fax Note 7671	Date 4/20 # of pages ▶ 1
To Mike Noble	From T. Smith
Co./Dept.	Co. IEPA
Phone #	Phone #
Fax # 314-536-1655	Fax #