DOE/OR/21548-707
CONTRACT NO. DE-AC05-86OR21548

RECHARACTERIZATION OF THE QUARRY NORTH AND WEST BANK SOILS

WELDON SPRING SITE REMEDIAL ACTION PROJECT
WELDON SPRING, MISSOURI

AUGUST 1997 **REV. 0**

U.S. Department of Energy
Oak Ridge Operations Office
Weldon Spring Site Remedial Action Project

Prepared by MK-Ferguson Company and Jacobs Engineering Group

MK-FERGUSON
A MORRISON KNUDSEN COMPANY

Weldon Spring Site Remedial Action Project
Contract No. DE-AC05-86OR21548

Rev. No. 0

PLAN TITLE: Recharacterization of the Quarry North and West Bank Nitroaromatic Soils

APPROVALS

Compliance Department Manager	Aug 11, 1997 Date
Project Manager - Waste Maintenance	8/11/97 Date
Quality Assurance Manager	8/15/97 Date
Deputy Project Director	8/15/97 Date

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Weldon Spring Site Remedial Action Project

Recharacterization of the Quarry North and West Bank Nitroaromatic Soils

Revision 0

August 1997

Prepared by

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and
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for the

U.S. DEPARTMENT OF ENERGY
Oak Ridge Operations Office
Under Contract DE-AC05-86OR21548

ABSTRACT

The Resource Conservation Recovery Act (RCRA) as outlined in 40 CFR 264.13, requires facility owners and operators to characterize wastes in order to properly treat, store, and dispose of them Efforts were undertaken in 1995 to characterize the various waste streams exhumed from the Weldon Spring Quarry. It was determined that the sampling strategy employed during the initial characterization of nitroaromatic contaminated soils in the north and west bank did not provide representative samples, whereas provision of such samples is a fundamental requirement for hazardous waste characterization. As a result, recharacterization was initiated in June and July 1997. This report presents the results of this recharacterization.

TABLE OF CONTENTS

SECTION **PAGE**

1. INTRODUCTION 1
1.1 Scope and Purpose 1
1.2 Background 1
2. SUMMARY OF FINDINGS 4
3. SAMPLING PROGRAM 5
3.1 Approach 5
3.2 Results 5
4 DATA REVIEW 7
5. STATISTICAL EVALUATION 8
6. CONCLUSIONS 9
7. REFERENCES 10

APPENDIXES

A Analytical Data

LIST OF FIGURES

NUMBER **PAGE**

Figure 1-1 TSA Final Waste Placement 3
Figure 3-1 Nitro Stockpile 6

1. INTRODUCTION

1.1 Scope and Purpose

This report presents the findings resulting from the recharacterization of the nitroaromatic soils in the north and west banks of the Weldon Spring Quarry.

1.2 Background

The waste exhumed from the Weldon Spring Quarry was sorted, segregated, and transported to a temporary storage area at the site of the former Weldon Spring Chemical Plant where it is being maintained until it can be placed into permanent engineered storage. Activities were conducted in accordance with the *Record of Decision for Management of the Bulk Wastes at the Weldon Spring Quarry* (Ref. 1), and specifications for WP 186, *Quarry Bulk Waste Removal and Hauling/TSA Operations and Maintenance* (Ref. 2).

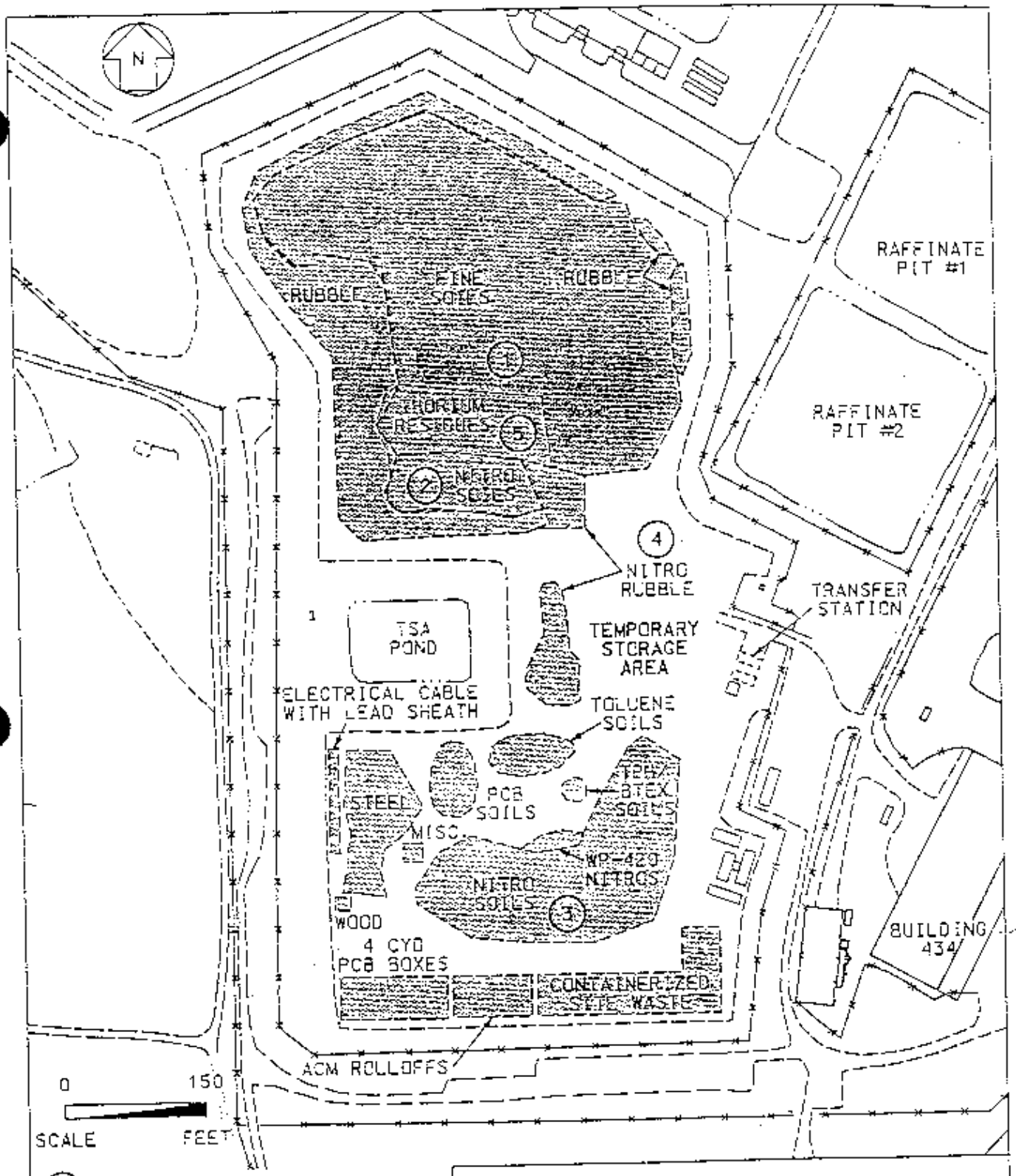
Wastes placed in the quarry from 1942-1969 originated from Army and Atomic Energy Commission (AEC) activities and included soils and rubble contaminated with trinitrotoluene (TNT) and dinitrotoluene (DNT) that were generated by cleanup of the former Weldon Spring Ordnance Works, and uranium and thorium residues, radioactively contaminated soils, building rubble, and process equipment primarily from former AEC facilities in St. Louis as well as Weldon Spring.

Approximately 145,000 cu yd of waste from the quarry were placed into interim storage at the temporary storage area. Of that quantity, approximately 16,700 cu yd were classified as nitroaromatic contaminated soils. Within the storage area, the nitroaromatic soils are segregated into three piles (see Figure 1-1). The north pile, estimated at 4,700 cu yd, consists of soils removed from the northeast corner of the quarry. The south pile and rubble pile consist of material removed from the west and north bank of the quarry and are estimated to contain approximately 10,500 cu yd and 1,500 cu yd, respectively. Historical information indicates that

soils from both areas originated from cleanup of the Army property, with the west and north bank soils dumped into the quarry between 1942 and 1957, and the northeast corner soils dumped into the quarry in 1966.

The soils originating from the west and north bank of the quarry were distinctly different in physical appearance from the soils removed from the northeast corner. The west and north bank soils appeared to contain pockets of concentrated nitroaromatic contaminants. The contaminants were streaked, swirled, or mixed in some fashion with what otherwise appeared to be inseparable clean soils. The soils were only slightly contaminated with radioactive substances because they were dumped into the quarry prior to, and in an area separate from, the uranium and thorium wastes.

The soils in the northeast corner exhibit a more consistent appearance in color and texture. These soils are predominately clayey materials mixed with limestone gravel, and they exhibit significant radioactive contamination due to the presence of thorium residues in the excavation area.



1. FINED-GRAINED SOILS = 102,000 CU.YD. (+-)
2. NORTH NITROAROMATIC SOILS = 4,000 CU.YD. (+-)
3. SOUTH NITROAROMATIC SOILS = 13,000 CU.YD. (+-)
4. NITROAROMATIC RUBBLE = 3,000 CU.YD. (+-)
5. THORIUM RESIDUES = 2,500 CU.YD. (+-)

TSA FINAL WASTE PLACEMENT

FIGURE 1-1

REPORT NO.:		DRAWING NO.:	A/DC/009/0297
ORIGINATOR: ELO	DRAWN BY: GLN	DATE:	2/24/97

2. SUMMARY OF FINDINGS

Review and evaluation of the analytical data indicates that the soils described as the west/north bank nitroaromatic soils stockpile are not considered a RCRA hazardous waste. Specifically, the results of the analysis of the samples collected from these soils do not indicate the presence of nitroaromatic contamination. The contaminant of concern, 2,4 dinitrotoluene (DNT), was detected in only one of 12 samples, the value for this single sample was below the detection limit for 2,4 DNT, hence, an estimated value.

Although the initial sampling and analysis of the west/north bank soils resulted in a wide range of 2,4 DNT values (nondetect to 16,000 µg/l), and nitroaromatic contamination was visible on the surface of the soils during the recharacterization, the true average concentration could be well below the detection limit for the contaminant.

3. SAMPLING PROGRAM

3.1 Approach

Sampling of the west/north bank nitroaromatic soils was conducted in accordance with *the Nitroaromatic Soils Sampling Plan - West/North Bank Soils* (Ref 3) The stockpile was surveyed, and the subsequent data was used to divide the stockpile into 12 equal volumes. Within each volume, the centerpoint was located and physically marked (see Figure 3-1). At each centerpoint, a single boring was driven from the surface of the pile to within an elevation no higher than 2 ft from the bottom of the pile. Hollow-stem augers were used for drilling, and samples were collected using a 3 in. continuous sampler. The soil collected from each boring represented a discrete sample to be submitted for analysis.

3.2 Results

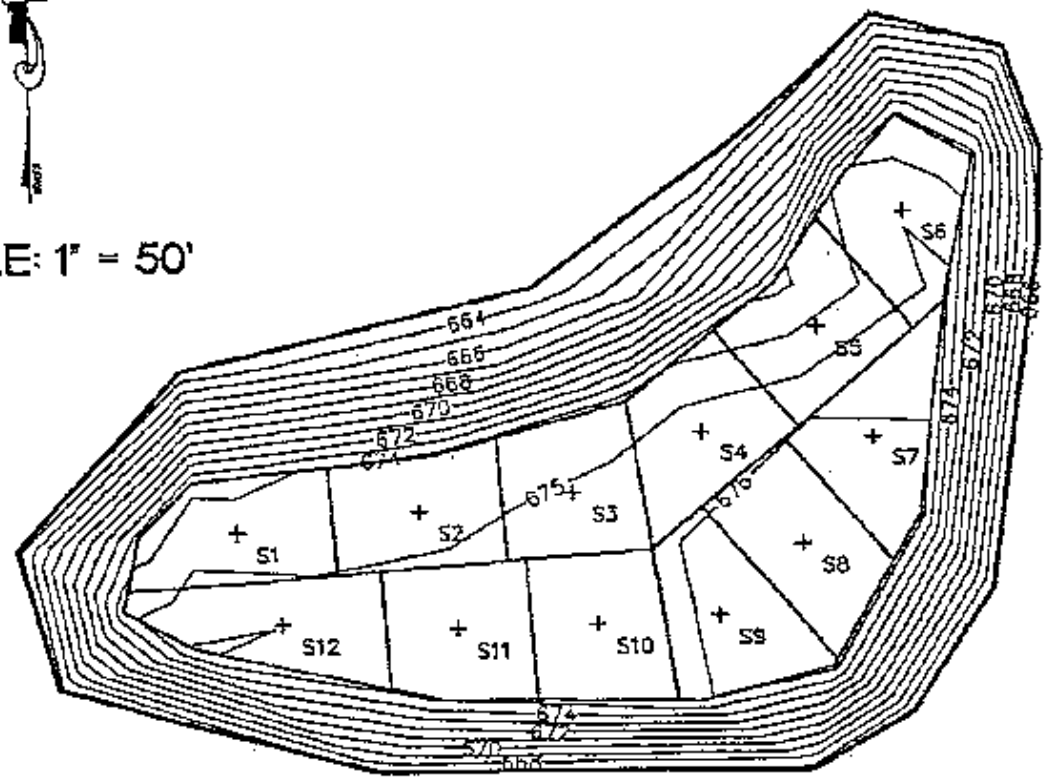
Sampling was initiated on June 30, 1997, and completed on July 1, 1997. In general, sample recovery from the continuous sampler was poor. Most of the sample cores were 12 in. or less long. One possible cause for the poor recovery was widely dispersed rock throughout the soils. Rocks were repeatedly found lodged in the tip of the continuous sampler thus blocking soils from entering the sample device. In order to obtain representative samples and also maximize sample sizes, a large portion of the drill cuttings produced from each boring was collected and mixed with each respective core sample. Although rock was widely dispersed within the soils, auger refusal was not a significant problem. The drill rig had to be repositioned only once, at sample point S3 (Figure 3-1), due to refusal.

Visible surface contamination was evident in grid areas S7 and S11. A reddish-brown discoloration of the soil was attributed to the presence of 2,4 DNT. The approximate area of contamination in each grid area was estimated at 100 sq ft and 50 sq ft in S7 and S11 respectively. The contamination was not observed in the core samples, and therefore, it was assumed that it was limited to the immediate surface in those grid areas identified.

014OTP01.DWG

NITRO STOCKPILE
DATED: 6/20/97

SCALE: 1" = 50'



FILL VOLUME = 10,457 CY

SAMPLE POINT	NORTHING	EASTING	ELEV.
S1	1041470.06	753697.90	674.47
S2	1041475.31	753748.48	674.59
S3	1041480.23	753792.17	675.11
S4	1041497.64	753828.63	675.36
S5	1041526.87	753860.82	674.21
S6	1041559.05	753885.13	674.81
S7	1041495.67	753875.93	676.09
S8	1041465.48	753855.89	676.48
S9	1041445.43	753832.57	676.09
S10	1041443.13	753798.41	675.65
S11	1041442.15	753758.99	675.54
S12	1041444.12	753710.05	675.94

REVISED -

SHEET 1 OF 1

S C E S

ST. CHARLES ENGINEERING & SURVEYING

801 S. FIFTH STREET, SUITE 202

ST. CHARLES, MO 63301

TEL:(314) 947-0007 FAX:(314) 947-2443

ORDER NO. 96-0111-14

DATE 06/28/97

4. DATA REVIEW

On the basis of previous characterization activities conducted on the nitroaromatic soils stockpiled in the TSA, 2,4 DNT was identified as the only contaminant of concern with the potential to exceed a regulatory threshold. Therefore, analysis of the samples was limited to semivolatile organics. The analytical data generated as a result of this sampling effort are provided in the Appendix A.

As stated in the summary, 2,4 DNT was detected in only one of the twelve samples. The single sample. with a value of 70 μg/l, was collected in grid area S8 (Fig 2). All QA/QC samples were within an acceptable range.

5. STATISTICAL EVALUATION

As stated in reference 3, the decision to be made is whether or not the west and north bank nitroaromatic soils meet the definition of a RCRA hazardous waste as defined in 40 CFR Part 261. Specifically, if the average concentration of 2,4 DNT is determined to be present in the soils in excess of the regulatory threshold value of 130 µg/l and within a confidence level of 90%, the soils will be declared a hazardous waste. Otherwise they will not.

Based on the analytical results, a statistical evaluation cannot be conducted since all but a single data point were nondetect. Without discrete analytical data, the required statistical parameters, i.e., the estimated mean and standard error cannot be calculated. However, it can be concluded that the average concentration of 2,4 DNT is less than the detection limit of 100 µg/l and more specifically is less than the regulatory threshold of 130 µg/l.

6. CONCLUSIONS

As stated above, it can be concluded that the average concentration of 2,4 DNT is less than the regulatory threshold of 130 µg/l, and therefore the waste stream is not considered a RCRA hazardous waste.

The results of the recharacterization are markedly different from the initial sampling and analysis of the west/north bank nitroaromatic soils stockpile. This difference can be exclusively attributed to the different sampling techniques employed. A surface sampling technique was used in the initial effort and was based on the assumption that the waste handling activities including stockpiling, loading, and redistribution at the TSA would effectively create a homogeneous wastestream. However, the broad range in the analytical results indicated that the contaminant was still fairly heterogeneous within the soil matrix.

The sampling approach for the recharacterization of the west/north bank nitroaromatic soils required the collection of volumetric (core) samples and the use of compositing to obtain representative samples. Volumetric sampling was used to account for the spatial distribution of the contaminants of concern.

In addition, a relatively large volume of composite sample was collected and homogenized before the actual sample aliquot was removed for analysis. Sample compositing tends to enhance the probability of obtaining an average value within a population.

7. REFERENCES

1. Argonne National Laboratory. *Record of Decision for the Management of the Bulk Wastes at the Weldon Spring Quarry*, Rev. 0. DOE/OR/21548-317. St. Charles, MO. September

2. Quarry Bulk Waste Removal and Hauling/TSA Operations and Maintenance, Subcontract Number 3589-SC-WP186

3. MK-Ferguson Company and Jacobs Engineering Group. *Nitroaromatic Soils Sampling Plan - West/North Bank Soils Stockpile*. Rev. 0. DOE/OR/21548-691. Prepared for the U. S. Department of Energy, Oak Ridge Operations Office. St. Charles, MO. June 1997

Appendix A

Analytical Data

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Page: 1

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LABORATORY ANALYTICAL [illegible]RONIC DATA DELIVERABLE
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2	9707068-14	07/09/97	07/09/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
3	9707068-14	07/09/97	07/09/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
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5	9707068-14	07/09/97	07/09/97	07/10/97	EPA 8270A	CRESOL, ORTHO	ND		UG/L	100	1.00	U	
6	9707068-14	07/09/97	07/09/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
7	9707068-14	07/09/97	07/09/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
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10	9707068-14	07/09/97	07/09/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
11	9707068-14	07/09/97	07/09/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
12	9707068-14	07/09/97	07/09/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	ND		UG/L	100	1.00	U	

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18	9707068-01	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
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42	9707068-03	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
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54	9707068-04	07/09/97	07/09/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
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56	9707068-04	07/09/97	07/09/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE (TCLP)	ND		UG/L	100	1.00	U	
57	9707068-04	07/09/97	07/09/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	ND		UG/L	100	1.00	U	
58	9707068-04	07/09/97	07/09/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
59	9707068-04	07/09/97	07/09/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
60	9707068-04	07/09/97	07/09/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	ND		UG/L	100	1.00	U	

LABORATORY ANALYTICAL E[illegible]RONIC DATA DELIVERABLE
EDITED DISKETTE DELIVERABLE REPORT
Analyzed By: GENERAL ENGINEERING
Request No.: 2171.0
PO Number: 3589-0102-20951

EDITED
D07177A

WSSRAP_ID: WM-CB13-070197 DATE_SAM: 06/30/97 MATRIX: SOIL

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DL	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
61	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
62	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
63	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
64	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE (TCLP)	ND		UG/L	100	1.00	U	
65	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, ORTHO	ND		UG/L	100	1.00	U	
66	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
67	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
68	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE (TCLP)	ND		UG/L	100	1.00	U	
69	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	ND		UG/L	100	1.00	U	
70	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
71	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
72	9707068-05	07/09/97	07/08/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	ND		UG/L	100	1.00	U	

LABORATORY ANALYTICAL [illegible]TRONIC DATA DELIVERABLE
EDITED DISKETTE DELIVERABLE REPORT
Analyzed By: GENERAL ENGINEERING
Request No.: 2121.0
PO Number: 3589-0102-20951

EDITED
007177A

WSSRAP_ID: WM-CB14-070197 DATE_SAM: 06/30/97 MATRIX: SOIL

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DI.	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
73	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
74	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
75	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
76	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE (TCLP)	ND		UG/L	100	1.00	U	
77	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, ORTHO	ND		UG/L	100	1.00	U	
78	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
79	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
80	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE (TCLP)	ND		UG/L	100	1.00	U	
81	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	ND		UG/L	100	1.00	U	
82	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
83	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
84	9707068-06	07/09/97	07/08/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	ND		UG/L	100	1.00	U	

LABORATORY ANALYTICAL [redacted]CTRONIC DATA DELIVERABLE
EDITED DISKETTE DELIVERABLE REPORT
Analyzed By: GENERAL ENGINEERING
Request No.: 2121.0
PO Number: 3589-0102 20951

WSSRAP_ID: WM-C815-063097 DATE_SAM: 06/30/97 MATRIX: SOIL

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DL	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
85	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
86	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
87	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
88	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE (TCLP)	(70.5)		UG/L	100	1.00	J	
89	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, ORTHO	ND		UG/L	100	1.00	U	
90	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
91	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
92	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE (TCLP)	ND		UG/L	100	1.00	U	
93	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	ND		UG/L	100	1.00	U	
94	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
95	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
96	9707068-07	07/09/97	07/08/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	ND		UG/L	100	1.00	U	

LABORATORY ANALYTICAL ELECTRONIC DATA DELIVERABLE
EDITED DISKETTE DELIVERABLE REPORT
Analyzed By: GENERAL ENGINEERING
Request No.: 2121.0
PO Number: 3589-0102-20951

DCpr[illegible]Report

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WSSRAP_ID: WM-C816-063097 DATE_SAM: 06/30/97 MATRIX: SOIL

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DL	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
97	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
98	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
99	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
100	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE (TCLP)	ND		UG/L	100	1.00	U	
101	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, ORTHO	ND		UG/L	100	1.00	U	
102	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
103	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
104	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE (TCLP)	ND		UG/L	100	1.00	U	
105	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	ND		UG/L	100	1.00	U	
106	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
107	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
108	9707068-08	07/09/97	07/08/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	ND		UG/L	100	1.00	U	

LABORATORY ANALYTICAL [illegible]TRONIC DATA DELIVERABLE
EDITED DISKETTE DELIVERABLE REPORT
Analyzed By: GENERAL ENGINEERING
Request No.: 2121.0
PO Number: 3589-0102-20951

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D07177A

WSSRAP_ID: WM-C816-063097-EB DATE_SAM: 06/30/97 MATRIX: WATER

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DL	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
109	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE	ND		UG/L	100	1.00	U	
110	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL	ND		UG/L	100	1.00	U	
111	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL	ND		UG/L	100	1.00	U	
112	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE	ND		UG/L	100	1.00	U	
113	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, ORTHO	ND		UG/L	100	1.00	U	
114	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
115	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE	ND		UG/L	100	1.00	U	
116	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE	ND		UG/L	100	1.00	U	
117	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROETHANE	ND		UG/L	100	1.00	U	
118	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	NITROBENZENE	ND		UG/L	100	1.00	U	
119	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL	ND		UG/L	100	1.00	U	
120	9707068-09	07/09/97	07/08/97	07/10/97	EPA 8270A	PYRIDINE	ND		UG/L	100	1.00	U	

LABORATORY ANALYTICAL ELECTRONIC DATA DELIVERABLE
EDITED DISKETTE DELIVERABLE REPORT
Analyzed By: GENERAL ENGINEERING
Request No.: 2121.0
PO Number: 3589-0102-20951

DCp Report

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WSSRAP_ID: WM-C817-063097 DATE_SAM: 06/30/97 MATRIX: SOIL

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DL	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
121	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
122	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
123	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
124	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE (TCLP)	ND		UG/L	100	1.00	U	
125	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, ORTHO	ND		UG/L	100	1.00	U	
126	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
127	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
128	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE (TCLP)	ND		UG/L	100	1.00	U	
129	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	ND		UG/L	100	1.00	U	
130	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
131	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
132	9707068-10	07/09/97	07/08/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	ND		UG/L	100	1.00	U	

LABORATORY ANALYTICAL ELECTRONIC DATA DELIVERABLE
EDITED DISKETTE DELIVERABLE REPORT
Analyzed By: GENERAL ENGINEERING
Request No.: 2121.0
PO Number: 3589-0102-20951

EDITED
007177A

WSSRAP_ID: WM-C817-063097-MD DATE_SAM: 06/30/97 MATRIX: SOIL

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DL	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
133	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE (TCLP)	744		UG/L	100	1.00		
COMMENTS: %REC = 74.4,RPD = 6.00													
134	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	982		UG/L	100	1.00		
COMMENTS: %REC = 98.2,RPD = 8.00													
135	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	907		UG/L	100	1.00		
COMMENTS: %REC = 90.7,RPD = 9.00													
136	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE (TCLP)	1050		UG/L	100	1.00		
COMMENTS: %REC = 105,RPD = 2.00													
137	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, ORTHO	863		UG/L	100	1.00		
COMMENTS: %REC = 86.3,RPD = 5.00													
138	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	741		UG/L	100	1.00		
COMMENTS: %REC = 74.1,RPD = 8.00													
139	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	938		UG/L	100	1.00		
COMMENTS: %REC = 93.8,RPD = 2.00													
140	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE (TCLP)	674		UG/L	100	1.00		
COMMENTS: %REC = 67.4,RPD = 11.0													
141	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	669		UG/L	100	1.00		
COMMENTS: %REC = 66.9,RPD = 0.00													
142	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	923		UG/L	100	1.00		
COMMENTS: %REC = 92.3,RPD = 7.00													
143	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	202		UG/L	100	1.00		
COMMENTS: %REC = 20.2,RPD = 26.0													
144	QC441950	07/09/97	07/08/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	618		UG/L	100	1.00		
COMMENTS: %REC = 61.8,RPD = 7.00													

LABORATORY ANALYTICAL [illegible]TRONIC DATA DELIVERABLE
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Analyzed By: GENERAL ENGINEERING
Request No.: 2121.0
PO Number: 3589-0102-20951

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D07177A

WSSRAP_ID: WM-C817-063097-MS DATE_SAM: 06/30/97 MATRIX: SOIL

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DL	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
145	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE (TCLP)	705		UG/L	100	1.00		
	COMMENTS: %REC = 70.5												
146	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	899		UG/L	100	1.00		
	COMMENTS: %REC = 89.9												
147	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	833		UG/L	100	1.00		
	COMMENTS: %REC = 83.3												
148	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE (TCLP)	1030		UG/L	100	1.00		
	COMMENTS: %REC = 103												
149	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, ORTHO	815		UG/L	100	1.00		
	COMMENTS: %REC = 81.5												
150	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	682		UG/L	100	1.00		
	COMMENTS: %REC = 68.2												
151	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	965		UG/L	100	1.00		
	COMMENTS: %REC = 96.5												
152	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE (TCLP)	605		UG/L	100	1.00		
	COMMENTS: %REC = 60.5												
153	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	671		UG/L	100	1.00		
	COMMENTS: %REC = 67.1												
154	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	864		UG/L	100	1.00		
	COMMENTS: %REC = 86.4												
155	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	258		UG/L	100	1.00		
	COMMENTS: %REC = 25.8												
156	QC441949	07/09/97	07/08/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	584		UG/L	100	1.00		
	COMMENTS: %REC = 58.4												

LABORATORY ANALYTICAL ELECTRONIC DATA DELIVERABLE
EDITED DISKETTE DELIVERABLE REPORT
Analyzed By: GENERAL ENGINEERING
Request No.: 2121.0
PO Number: 3589-0102-20951

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WSSRAP_ID: WM-C818-063097 DATE_SAM: 06/30/97 MATRIX: SOIL

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DL	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
157	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
158	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
159	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
160	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE (TCLP)	ND		UG/L	100	1.00	U	
161	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, ORTHO	ND		UG/L	100	1.00	U	
162	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
163	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
164	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE (TCLP)	ND		UG/L	100	1.00	U	
165	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	ND		UG/L	100	1.00	U	
166	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
167	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
168	9707068-11	07/09/97	07/08/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	ND		UG/L	100	1.00	U	

LABORATORY ANALYTICAL [redacted]TRONIC DATA DELIVERABLE
EDITED DISKETTE DELIVERABLE REPORT
Analyzed By: GENERAL ENGINEERING
Request No.: 2121.0
PO Number: 3589-0102-20951

EDITED
DD/177A

WSSRAP_ID: WM-C819-070197 DATE_SAM: 06/30/97 MATRIX: SOIL

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DL	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
169	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
170	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
171	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
172	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE (TCLP)	ND		UG/L	100	1.00	U	
173	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	CRESOL, ORTHO	ND		UG/L	100	1.00	U	
174	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
175	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
176	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	HEXACHLOROBUTADIENE (TCLP)	ND		UG/L	100	1.00	U	
177	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	ND		UG/L	100	1.00	U	
178	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
179	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
180	9707068-12	07/09/97	07/09/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	ND		UG/L	100	1.00	U	

LABORATORY ANALYTICAL ELECTRONIC DATA DELIVERABLE
EDITED DISKETTE DELIVERABLE REPORT
Analyzed By: GENERAL ENGINEERING
Request No.: 2121.0
PO Number: 3589-0102-20951

DCp[illegible]

EDITED
D07177A

WSSRAP_ID: WM-C820-070197 DATE_SAM: 06/30/97 MATRIX: SOIL

REC#	LAB_ID	DATE_EXT	TCLPDATE	DATE_ANA	METHOD	PARAMETER	CONC	ERR	UNITS	DL	DIL FACT	LAB QUAL	VER_QUAL
CATEGORY: SEMI-VOLATILES													
181	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	1,4-DICHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
182	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	2,4,5-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
183	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	2,4,6-TRICHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
184	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	2,4-DINITROTOLUENE (TCLP)	ND		UG/L	100	1.00	U	
185	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	CRESOL, ORTHO	ND		UG/L	100	1.00	U	
186	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	CRESOL, PARA	ND		UG/L	100	1.00	U	
187	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	HEXACHLOROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
188	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	HEXACHLORODIBUTADIENE (TCLP)	ND		UG/L	100	1.00	U	
189	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	HEXACHLOROETHANE (TCLP)	ND		UG/L	100	1.00	U	
190	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	NITROBENZENE (TCLP)	ND		UG/L	100	1.00	U	
191	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	PENTACHLOROPHENOL (TCLP)	ND		UG/L	100	1.00	U	
192	9707068-13	07/09/97	07/09/97	07/10/97	EPA 8270A	PYRIDINE (TCLP)	ND		UG/L	100	1.00	U	