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Date: April 30, 1996
Refer to: EM/ER:96-214

RECEIVED JUN 1996

Mr. Benito Garcia
NMED-HRMB
P.O. Box 26110
Santa Fe, NM 87502

SUBJECT: FINAL VOLUNTARY CORRECTIVE ACTION (VCA) COMPLETION REPORT FOR ACTIVITIES AT TECHNICAL AREA (TA) 0 FOR POTENTIAL RELEASE SITE (PRS) C-0-042

Dear Mr. Garcia:

Enclosed please find an informational copy of the final VCA completion report for cleanup activities in TA-0 for PRS C-0-042 completed in Fiscal Year 1996.

The Department of Energy has reviewed and approved this report. Certification of Completion has been signed and is included in the enclosed report.

If you have any questions, please call Garry Allen at (505) 667-3394 or Bonnie Koch at (505) 665-7202.

Sincerely,

Jorg Jansen, Program Manager
Environmental Restoration

Sincerely,

Theodore J. Taylor, Program Manager
Los Alamos Area Office

JJ/TT/bp

Enclosure: Final VCA Report for TA-0 for PRS C-0-042
Certificatification of Completion

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Voluntary Corrective Action Completion Report for

Potential Release Site

C-0-042
Zia Motor Pool
Waste Oil Underground
StorageTank

Field Unit 1

Environmental
Restoration
Project

April 1996

A Department of Energy
Environmental Cleanup Program

Los Alamos
NATIONAL LABORATORY

LA-UR-96-1319

CONTENTS

1.0 INTRODUCTION 1

1.1 Site Type and Description 1

1.1.1 Operational History 1

1.1.2 Chemicals of Potential Concern and Rationale for Voluntary Corrective Action 1

2.0 SITE CHARACTERIZATION 3

2.1 RFI Information and Other Decision Data 3

2.2 Nature and Extent of Contamination 5

2.3 Basis for Cleanup Levels 5

3.0 REMEDIAL ACTIVITIES AND RESULTS OF CONFIRMATORY SAMPLING 5

3.1 Remedial Implementation 5

3.2 Confirmatory Sampling 6

4.0 WASTE MANAGEMENT 11

4.1 Types and Volumes of Waste Generated 11

4.2 Method of Management and Disposal 11

APPENDIX A QUALITY ASSURANCE/QUALITY CONTROL 1

APPENDIX B RFI CHARACTERIZATION DATA 1

APPENDIX C FINAL COSTS 1

APPENDIX D CONFIRMATORY SAMPLING RESULTS 1

APPENDIX E CERTIFICATION OF COMPLETION 1

LIST OF TABLES

Table 2.1-1 Analytical Results for Volatile Organic Analytes Detected in UST Contents at C-0-042 3

Table 2.1-2 Analytical Results for Inorganic Analytes Detected in UST Contents at C-0-042 4

Table 2.1-3 Analytical Results for Semivolatile Organic Analytes Detected in UST Contents at C-0-042 4

Table 3.2-1 Confirmatory Analytical Results for Volatile Organic Analytes Detected at C-0-042 10

Table 4.2-1 Analytical Results for Volatile Organic Analytes Detected in Soil Samples from Waste Containers at C-0-042 13

Table 4.2-2 Analytical Results for Total Petroleum Hydrocarbons Detected in Soil Samples from Waste Containers at C-0-042 13

LIST OF FIGURES

Fig. 1.1-1. General location of former Zia Motor Pool at TA-0. 2

Fig. 3.1-1. Location of former Zia Motor Pool and waste oil UST at C-0-042. 7

Fig. 3.2-1. Locations of confirmatory samples at C-0-042. 8

1.0 INTRODUCTION

1.1 Site Type and Description

Potential release site (PRS) C-0-042, an area of concern, is a waste oil underground storage tank (UST) believed to be associated with the former Zia Motor Pool facility automotive maintenance hangar. The waste oil UST was discovered in August 1995 during excavation to construct the Los Alamos National Bank building. The site is located in the Los Alamos townsite, technical area (TA) 0, on Trinity Drive between 15th Street and the Los Alamos Credit Union (Fig. 1.1-1). A detailed description of historical operations at the former Zia Motor Pool, solid waste management unit (SWMU) Group 0-4, is provided in the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Work Plan for Operable Unit 1071 (LANL 1992, 0781).

1.1.1 Operational History

The waste oil UST is believed to have served the former Zia Motor Pool automotive maintenance hangar. During its period of operation, the Zia Motor Pool was owned by the Atomic Energy Commission (AEC) and operated by the Zia Company. The automotive maintenance hangar was decommissioned and removed in 1962, before the initial land transfer from the AEC to Los Alamos County in July 1967. Based on archival data, the waste oil UST was not used by subsequent land owners following property transfer from the AEC. Visual observations during the UST excavation indicate the tank and all access-ways were covered with asphalt and fill material following demolition of the automotive maintenance hangar. Most of the former Zia Motor Pool buildings and facilities have now been removed and a portion of the site is currently under construction for the Los Alamos National Bank building. RFI field work was conducted at SWMU Group 0-4 in 1994 to characterize the site, and one UST was removed; however, all of the waste oil pits that were suspected to be present at the site could not be located during the RFI. The site characterization activities at SWMU Group 0-4 (Building 1 and former automotive maintenance hangar) were completed and an RFI Report was submitted to the US Environmental Protection Agency (EPA) in May 1995 (LANL 1995, 05-0230).

1.1.2 Chemicals of Potential Concern and Rationale for Voluntary Corrective Action

Analytical results of liquid and sludge samples collected from within the tank before excavation and removal indicated the presence of several RCRA constituents. RCRA constituents detected in the liquid samples included trichloroethylene (TCE) and cresols; and the sludge sample was found to contain benzene, cresols, 1,4-dichlorobenzene, TCE, barium, cadmium, chromium, and lead. The presence and concentrations of these chemicals of potential

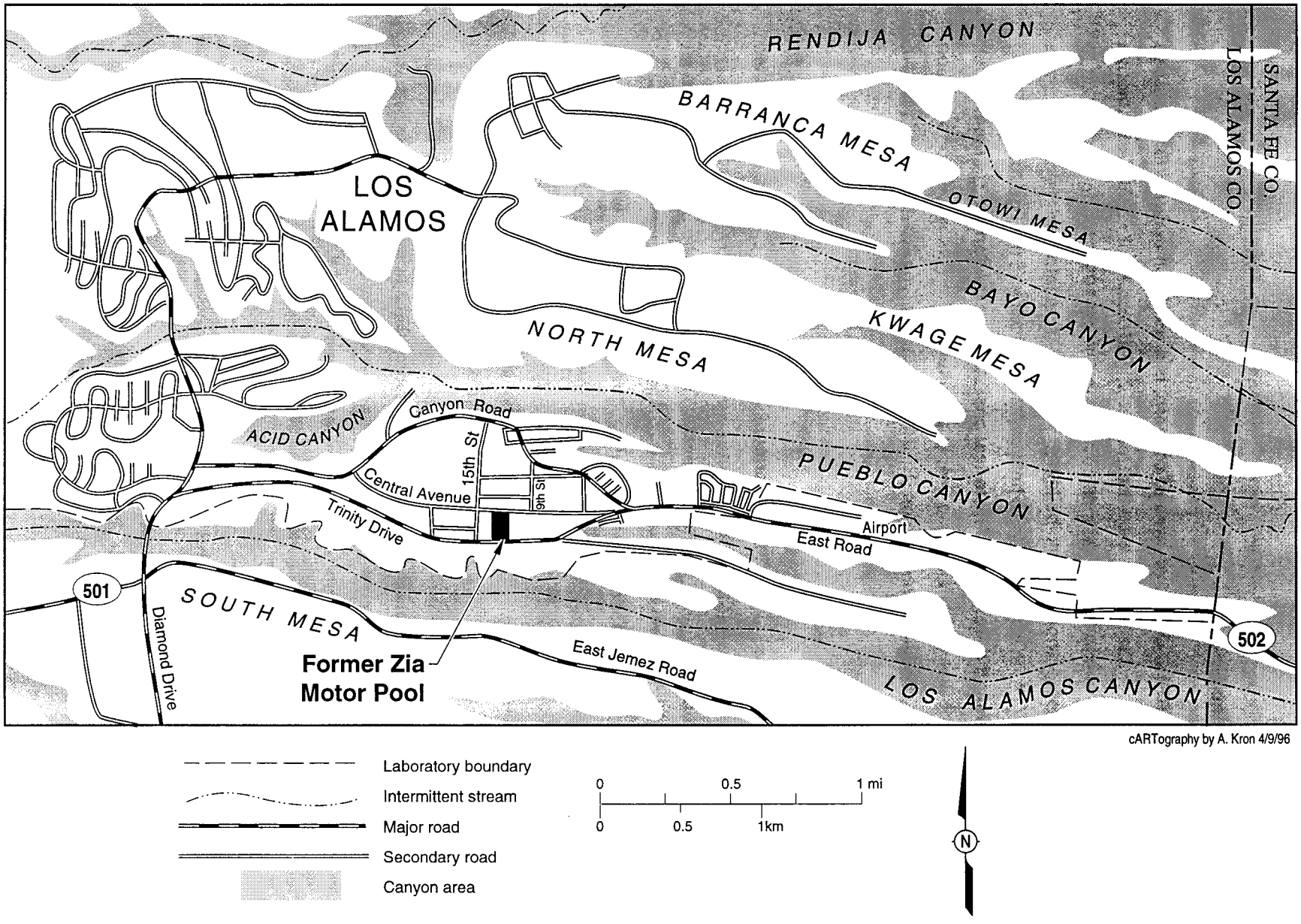

Fig. 1.1-1. General location of former Zia Motor Pool at TA-0.

concern (COPCs) resulted in the Laboratory initiating a voluntary corrective action (VCA) to remove the UST and contents to minimize the potential risk to human health and the environment. The site did not fall under New Mexico UST Bureau regulations because it contained RCRA-listed hazardous wastes.

2.0 SITE CHARACTERIZATION

2.1 RFI Information and Other Decision Data

RFI site characterization was not conducted at C-0-042. An RFI was completed for SWMU Group 0-4 and a RFI Report was submitted to the EPA in May 1995, however, this waste oil UST was not encountered during the RFI investigation. When discovered in August 1995, the UST was approximately half full of liquid and sludge. The tank contents were sampled for waste characterization and determined to be RCRA hazardous waste. Analytical results of liquid and sludge samples are presented in Tables 2.1-1, 2.1-2, and 2.1-3.

The liquids in the waste oil UST were analyzed for toxicity characteristic leaching procedure (TCLP) metals, volatile organic compounds (VOCs) by SW-846 method 8260, and semivolatile organic compounds (SVOCs) by SW-846 method 8270. The sludge in the waste oil UST was analyzed for total metals by EPA SW-846 methods 6010 and 7470 (mercury), VOCs by EPA SW-846 method 8260, SVOCs by EPA SW-846 method 8270, and polychlorinated biphenyls (PCBs) by EPA SW-846 method 8080A.

TABLE 2.1-1

ANALYTICAL RESULTS FOR VOLATILE ORGANIC ANALYTES DETECTED IN UST CONTENTS AT C-0-042

ANALYTE	SAMPLE MEDIA	SAMPLE VALUE
Trichloroethylene	Liquid	90.2 mg/L
Benzene	Sludge	13 600 mg/kg
Toluene	Sludge	52 700 mg/kg
Trichloroethylene	Sludge	25 400 mg/kg

TABLE 2.1-2

ANALYTICAL RESULTS FOR INORGANIC ANALYTES DETECTED IN UST CONTENTS AT C-0-042

ANALYTE	SAMPLE MEDIA	SAMPLE VALUE
Barium	Liquid	68.1 mg/L
Cadmium	Liquid	0.22 mg/L
Lead	Liquid	1.75 mg/L
Barium	Sludge	807 mg/kg
Cadmium	Sludge	55.6 mg/kg
Chromium	Sludge	17 mg/kg
Lead	Sludge	3 120 mg/kg
Mercury	Sludge	0.139 mg/kg

TABLE 2.1-3

ANALYTICAL RESULTS FOR SEMIVOLATILE ORGANIC ANALYTES DETECTED IN UST CONTENTS AT C-0-042

ANALYTE	SAMPLE MEDIA	SAMPLE VALUE
m-Cresol+ p-Cresol	Liquid	133 mg/L
Pyridine	Liquid	3.66 mg/L
1,2,4-Trichloro-benzene	Sludge	465 mg/kg
2,4-Dimethyl-phenol	Sludge	207 mg/kg
2-Methylnaph-thalene	Sludge	478 mg/kg
o-Cresol	Sludge	114 mg/kg
o-Dichloro-benzene	Sludge	424 mg/kg
m-Cresol+ p-Cresol	Sludge	841 mg/kg
p-Dichloro-benzene	Sludge	150 mg/kg

2.2 Nature and Extent of Contamination

Prior to VCA fieldwork, it was assumed that all COPCs detected in liquid and sludge samples collected from within the UST were contained within the tank. Upon excavation, the tank was found to be tight, in good condition, and structurally sound; however, staining was observed in the shallow subsurface of surrounding soils. The stains originated around the top of the tank, indicating that they were the result of historical overflow. Through field screening with a photoionization detector (PID) and visual observation, it was determined that the contaminated soil was limited to the west side of the tank. No indications of soil contamination were observed on the east side of the tank. As excavation progressed toward the bottom of the tank, the lateral extent of the contaminated soils decreased and the vertical extent was reached approximately 8 ft below ground surface (bgs). Field screening indicated the presence of organic compounds in the soils, and the affected soils were excavated using PID field screening as a guide to the extent of the contamination. Soil samples were collected from the limits of the excavation and submitted to the mobile chemical analytical laboratory (MCAL) to confirm that all contaminated soils were removed and that the nature and extent of contamination had been properly defined. Final confirmatory samples were collected from the bottom and sides of the excavation and submitted to a fixed analytical laboratory for analysis. Analytical results of confirmatory samples are provided in Section 3.0 of this report.

2.3 Basis for Cleanup Levels

Cleanup levels are based on human health screening action levels (SALs). SALs are derived from risk analysis results for a residential land use scenario. Although SALs are conservative values that were not intended to be used as cleanup levels, their use in this case ensures that there is minimal health risk to future site residents and to the environment.

3.0 REMEDIAL ACTIVITIES AND RESULTS OF CONFIRMATORY SAMPLING

3.1 Remedial Implementation

The waste oil UST was excavated and removed December 18, 1995 in accordance with the VCA plan (LANL 1996, 05-0229). The tank location and extent of the excavation are shown on Fig. 3.1-1. The UST was overlain by multiple layers of asphalt pavement and base course. The tank was adjacent to an existing building, so care was taken not to undermine the building foundation or leave the excavation open for an extended period. As soil surrounding the tank was excavated, hydrocarbon odors and visible staining were encountered in the near-surface

soils immediately beneath the oldest layer of buried asphalt. Through PID field screening and visual observation, it was determined that contaminated soil was limited to the west side of the tank. As excavation progressed toward the bottom of the tank, the lateral extent of the contaminated soils decreased. Field screening and visual inspection of the excavation and tank revealed that the soil contamination was the result of historical overflow of the UST during its operational lifetime. The excavation was extended approximately 2 ft to the west and 8 ft to the south to remove the contaminated soil. The extent of the excavation was guided primarily by soil headspace analysis conducted in the field using a PID. Following removal of contaminated soils, field screening and confirmatory samples were collected from the middle, northeast corner, and southeast corner of the excavation where the primary soil contamination was encountered.

Soil was excavated from around the UST until the tank was fully exposed. Although the tank was expected to be a 5 000-gal. UST, upon excavation and inspection it was observed to have a 2 500-gal. capacity. The tank, with the sludge in it, was hoisted out of the excavation and placed in a lined roll-off bin for transport off-site. The tank was salvaged and sold as scrap metal after it was cleaned as described in Section 4.1 of this report. Approximately 15 cubic yards of contaminated soil were placed in the container with the UST, and an additional 15 cubic yards of soil were containerized in B25 burial boxes for immediate transfer to an off-site, registered less-than-90-day storage area. Soil samples were collected from a depth of approximately 6 in. beneath each end of the tank for screening at the MCAL and for confirmatory sample analysis at a fixed analytical laboratory. There were no indications of soil contamination beneath the tank.

Following removal of the tank, the excavation was backfilled with clean fill material and compacted to the satisfaction of the land-development contractor. To avoid further construction delays, the UST area was released to the construction contractor following receipt of soil sample analytical results.

3.2 Confirmatory Sampling

Following removal of the waste oil UST and contaminated soil, five confirmatory soil samples were collected from the excavation (Fig. 3.2-1). Two samples were collected from beneath the ends of the tank, and an additional three samples were collected from the middle, north end, and south end of the west wall of the excavation. Screening samples were collected from the confirmatory sample material and analyzed in the MCAL to verify that all contaminated soils had been removed and that the limits of the contamination had been reached.

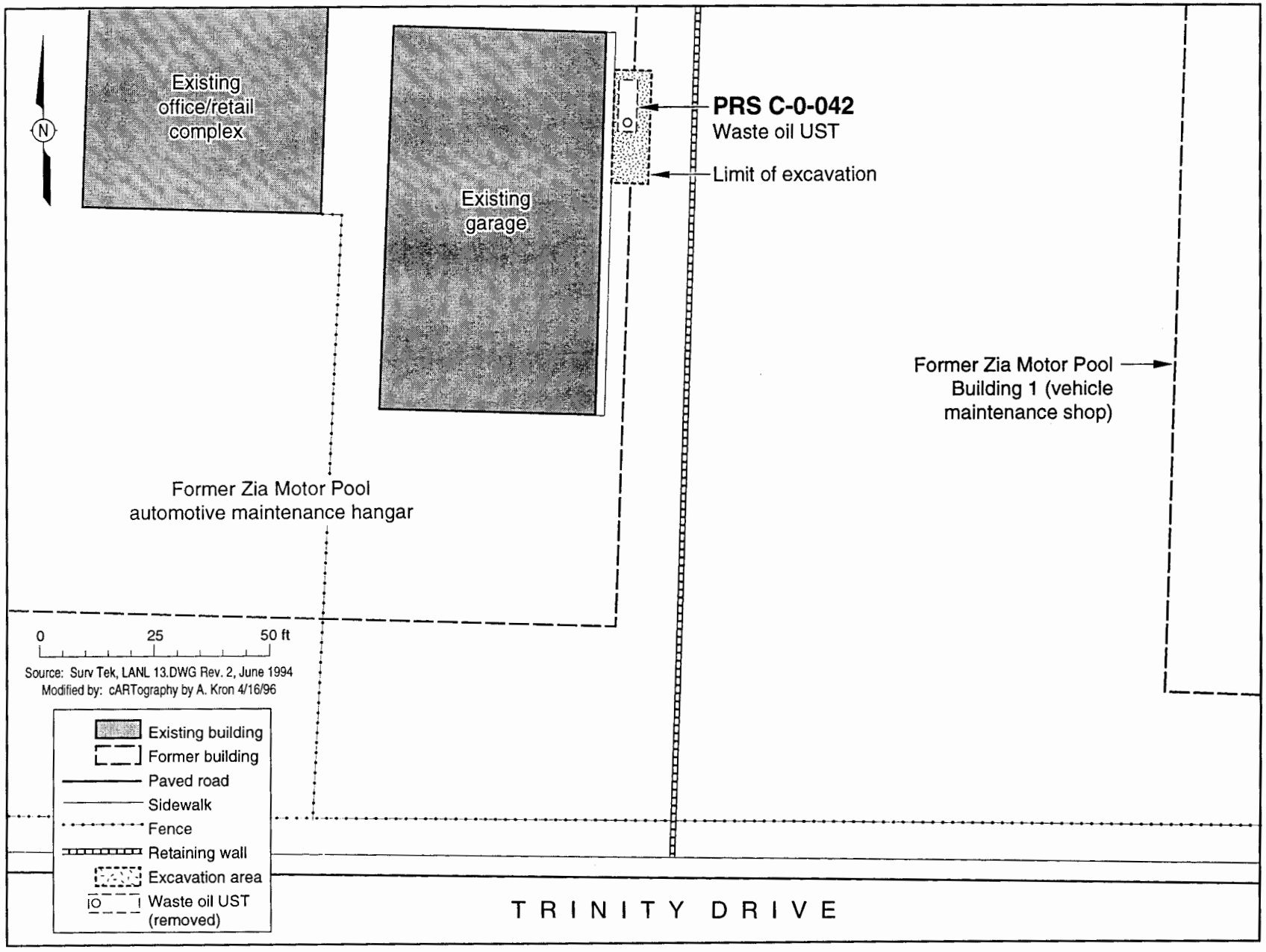

Fig. 3.1-1. Location of former Zia Motor Pool and waste oil UST at C-0-042.

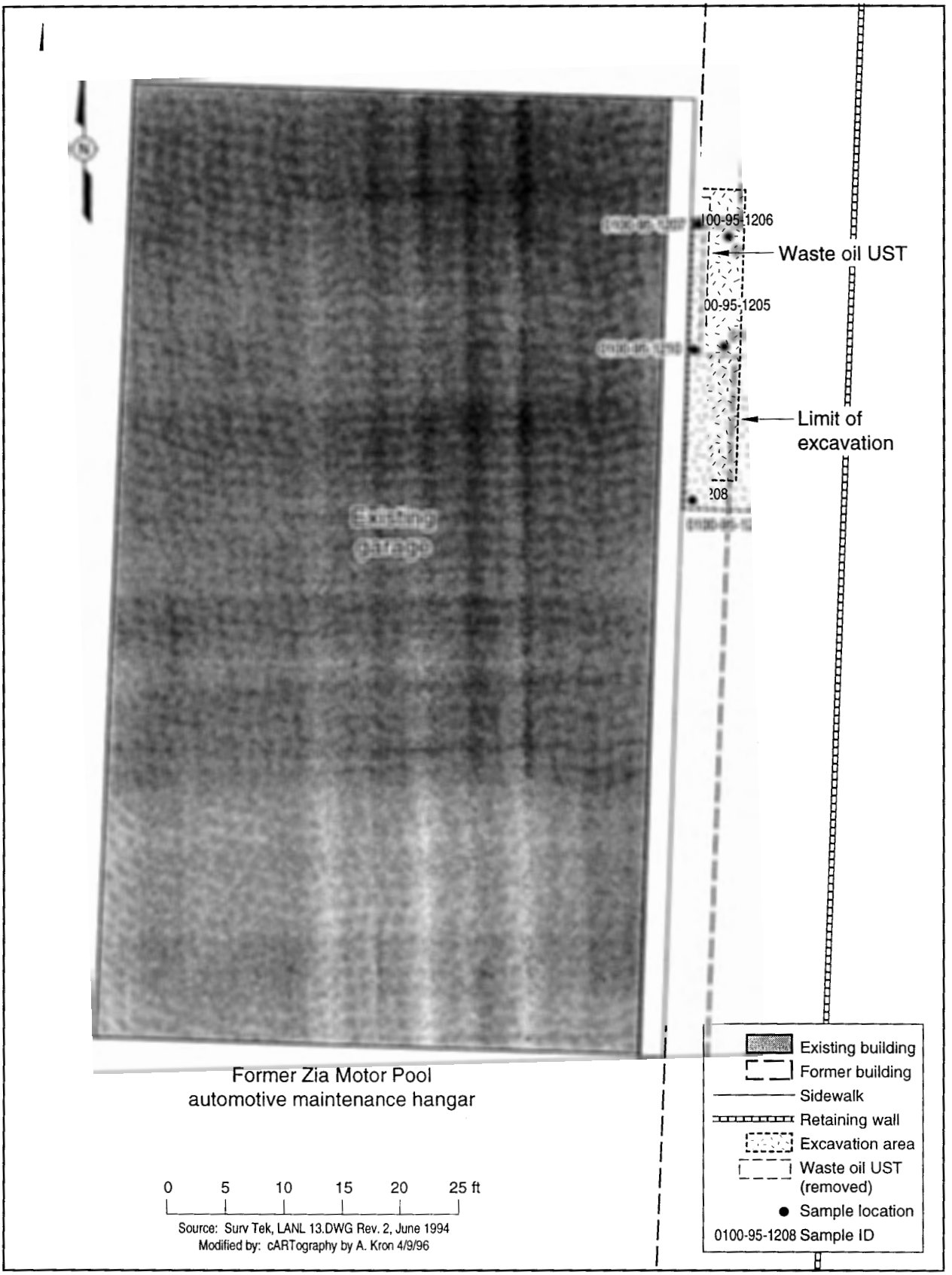

Fig. 3.2-1. Locations of confirmatory samples at C-0-042.

One soil sample was collected from beneath the north end of the tank at a depth of 10 to 10.25 ft bgs, and one sample was collected from beneath the south end of the tank at a depth of 10.75 to 11 ft bgs, approximately 6 to 12 in. beneath the bottom of the tank. These samples were planned confirmatory samples collected to verify that a release from the tank had not occurred. Samples collected from the sidewall of the excavation consisted of one sample from the southwest corner of the excavation at a depth of 4.5 ft bgs, one sample from the northwest corner at a depth of 5 ft bgs, and one sample from the middle of the west wall of the excavation at a depth of 5 ft bgs. These additional samples were collected to confirm that the lateral and vertical extent of the soil contamination had been captured and removed during excavation. The extent of the contaminated soils excavated was guided primarily by field screening with a PID during excavation and by visual inspection of the soil.

All analytes detected in confirmatory samples were below their respective SALs, and all inorganics (metals) were below background upper tolerance limits (UTLs). The analytical results for confirmatory samples are presented in Table 3.2-1. Confirmatory samples were analyzed in a fixed analytical laboratory for total metals by EPA SW-846 methods 6010 and 7470 (mercury), VOCs by EPA SW-846 method 8260, SVOCs by EPA SW-846 method 8270, and total petroleum hydrocarbons (TPH) by EPA method 418.1.

Samples screened in the MCAL were analyzed for VOCs by EPA SW-846 method 8260, metals by x-ray fluorescence (XRF), and TPH by EPA method 418.1. Analytical results of screening samples analyzed in the MCAL indicated that all VOCs and TPH were below method detection limits and all metals detected were present in concentrations below background UTLs.

TABLE 3.2-1

CONFIRMATORY ANALYTICAL RESULTS FOR VOLATILE ORGANIC ANALYTES DETECTED AT C-0-042

LOCATION	SAMPLE ID	DEPTH (ft)	ANALYTE	SAMPLE VALUE (mg/kg)	SAL[a] (mg/kg)
Beneath south end of UST	0100-95-1205	10.75-11	Trichloro-ethylene	0.008	7.1
Beneath north end of UST	0100-95-1206	10-10.25	Acetone	0.003	2 000
Southwest corner of excavation	0100-95-1208	4-4.5	Acetone	0.2	2 000
Southwest corner of excavation	0100-95-1208	4-4.5	2-Butanone	0.027	8 700
Middle of west wall of excavation	0100-95-1210	4.75-5	Acetone	0.14	2 000
Middle of west wall of excavation	0100-95-1210	4.75-5	2-Butanone	0.026	8 700
Middle of west wall of excavation	0100-95-1210	4.75-5	Trichloro-ethylene	0.009	7.1

[a] SAL = Screening action level.
[b] UST = Underground storage tank.

4.0 WASTE MANAGEMENT

4.1 Types and Volumes of Waste Generated

The types of wastes generated included sludge and rinse water from cleaning the tank, contaminated soil, used personal protective equipment (PPE), and disposable sampling equipment. Analytical results from direct sampling of the liquid and sludge in the tank, and acceptable knowledge were used to profile waste in accordance with the approved waste characterization strategy form. Analytical results for tank content samples are presented in Section 2.1 of this report. The volume of waste generated as a result of UST removal and sampling activities includes approximately 800 gal. of sludge and rinse water from cleaning the tank, 30 cubic yards of contaminated soil, and one 1-gal. resealable plastic bag of PPE and disposable sampling equipment. The tank itself was salvaged and sold as scrap metal.

The waste volume generated as a result of the VCA was greater than anticipated due to the unexpected soil contamination encountered. Projected volumes of waste discussed in the VCA plan did not include contaminated soil. Therefore, the actual volume of waste generated includes an additional 30 cubic yards of soil.

The contaminated soil removed from the excavation was segregated from the clean soil based on field screening with a PID and visual inspection. The most highly contaminated soil was excavated first and placed in a roll-off bin with the waste oil tank. After the roll-off bin was filled to capacity, the remaining, less contaminated soil was placed in six B25 burial boxes. Soil samples from the burial boxes were analyzed in the MCAL to determine if the less-contaminated soil could be characterized as nonhazardous or special waste. Analytical results from the MCAL indicated that the soil in the burial boxes was hazardous waste due to low concentrations of RCRA-listed wastes. The lower concentrations of contaminants detected in this soil allowed the burial boxes to be disposed of at a RCRA landfill as opposed to a treatment, storage and disposal (TSD) facility, resulting in significant disposal cost savings.

4.2 Method of Management and Disposal

The tank and contents were removed and transported off-site by Tank Management Services, Inc., in conjunction with a licensed hazardous waste transporter with a valid EPA ID number (Envirosolve of Albuquerque) for hazardous waste transport and management. All hazardous waste transport and management activities were conducted in accordance with applicable federal and state regulations and LANL policies and procedures. The tank, still containing the sludge, was transported to the Envirosolve 10-day transfer facility in Albuquerque, where the

tank was cleaned out and the sludge was transferred into fifteen 55-gal. drums for final transport to a LANL-audited and -approved TSD facility in Deer Park, Texas for incineration. The soil that accompanied the tank was transferred into forty-five 55-gallon drums and was also shipped to Deer Park for incineration. The cleaned tank was salvaged as scrap metal. A provisional waste generator number (NMP360076677) was issued by the State of New Mexico for the tank, sludge, soil, and PPE/disposable sampling equipment. All waste except the soil contained in B25 boxes was shipped under a common uniform hazardous waste manifest. Because only a very small quantity (one 1-gal. resealable plastic bag) of PPE and disposable sampling equipment was generated, it was included with the UST, sludge, and soil shipped to the TSD facility.

The soil in the B25 boxes that was characterized based on direct sampling and analysis in the MCAL, was transported to the Highway 36 RCRA-permitted landfill, owned and operated by Rollins Environmental Services, Inc., for final disposal within 90 days of generation. One soil sample was collected for waste characterization from each of the B25 boxes and analyzed in the MCAL for VOCs, metals (by XRF), and TPH. For waste characterization purposes, analytical results of the sludge sample from the UST were used instead of XRF results from the soil sample analyzed in the MCAL. These results are presented in Section 2.1 of this report. Analytical results for VOCs and TPH detected in waste characterization soil samples collected from B25 boxes are presented in Tables 4.2-1 and 4.2-2.

TABLE 4.2-1

ANALYTICAL RESULTS FOR VOLATILE ORGANIC ANALYTES DETECTED IN SOIL SAMPLES FROM WASTE CONTAINERS AT C-0-042

SAMPLE ID[a]	ANALYTE	SAMPLE VALUE (mg/kg) [b]
0100-95-1211	ND[c]	ND
0100-95-1212	ND	ND
0100-95-1213	1,3,5-Trimethylbenzene	0.034
	1,2,4-Trimethylbenzene	0.017
	1,2,4-Trichlorobenzene	0.050
0100-95-1214	Trichloroethylene	0.052
	Isopropylbenzene	0.01
	2-Chlorotoluene	0.059
	1,2,4-Trimethylbenzene	0.069
	sec-Butylbenzene	0.032
	1,3-Dichlorobenzene	0.035
	1,2-Dichlorobenzene	0.022
	Napthalene	0.162
	1,2,4-Trichlorobenzene	0.030
0100-95-1215	Trichloroethylene	0.014
	1,2,4-Trichlorobenzene	0.018
0100-95-1216	Trichloroethylene	0.062
	Isopropylbenzene	0.013
	1,2,4-Trimethylbenzene	0.086
	sec-Butylbenzene	0.042
	1,2-Dichlorobenzene	0.017
	n-Butylbenzene	0.078
	1,2,4-Trichlorobenzene	0.070

[a] Samples analyzed by the MCAL.
[b] Results reported as wet weight.
[c] ND = Not detected.

TABLE 4.2-2

ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS DETECTED IN SOIL SAMPLES FROM WASTE CONTAINERS AT C-0-042

SAMPLE ID	DETECTION LIMIT (mg/kg)	SAMPLE VALUE (mg/kg)[a]
0100-95-1214	10	170

[a] Results reported as wet weight.

5.0 REFERENCES

LANL (Los Alamos National Laboratory), May 1992. "RFI Work Plan for Operable Unit 1071," Los Alamos National Laboratory Report LA-UR-92-810, Los Alamos, New Mexico. **(LANL 1992, 0781)**

LANL (Los Alamos National Laboratory), May 1995. "RFI Report for Potential Release Site 0-032," Los Alamos National Laboratory Report LA-UR-95-932, Los Alamos, New Mexico. **(LANL 1995, 05-0230)**

LANL (Los Alamos National Laboratory), April 1996. "Voluntary Corrective Action Plan for Potential Release Site C-0-042, Former Zia Motor Pool Waste Oil Underground Storage Tank," Los Alamos National Laboratory Report LA-UR-96-1320, Los Alamos, New Mexico. **(LANL 1996, 05-0229)**

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1205

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-01
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1401.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 20.18 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	6	U
124-48-1	Dibromochloromethane	6	U
591-78-6	2-Hexanone	25	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
1330-20-7	Xylene (total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
106-43-4	4-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
99-99-091	4-Isopropyltoluene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U

bjs
2-1-96

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1206

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-02
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1402.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 17.22 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
S-055	Trichlorotrifluoroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
67-64-1	Acetone	30	
75-09-2	Methylene Chloride	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
590-20-7	2,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
78-93-3	2-Butanone	24	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	6	U
107-06-2	1,2-Dichloroethane	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	24	U
108-88-3	Toluene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
127-18-4	Tetrachloroethene	6	U

bjs
2-1-94

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1206

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-02
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1402.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 17.22 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	6	U
124-48-1	Dibromochloromethane	6	U
591-78-6	2-Hexanone	24	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
1330-20-7	Xylene (total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
106-43-4	4-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
99-99-091	4-Isopropyltoluene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U

bjs
2-1-96

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1207

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-03
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1403.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 8.72 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
S-055	Trichlorotrifluoroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
67-64-1	Acetone	10	J
75-09-2	Methylene Chloride	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
590-20-7	2,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
78-93-3	2-Butanone	22	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
563-58-6	1,1-Dichloropropene	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	22	U
108-88-3	Toluene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

bjs
2-1-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0100-95-1207

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-03
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1403.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 8.72 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	5	U
124-48-1	Dibromochloromethane	5	U
591-78-6	2-Hexanone	22	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
106-43-4	4-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
99-99-091	4-Isopropyltoluene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U

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2-1-96

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1208

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-04
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1404.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 18.61 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
S-055	Trichlorotrifluoroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
67-64-1	Acetone	200	
75-09-2	Methylene Chloride	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
590-20-7	2,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
78-93-3	2-Butanone	27	
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	6	U
107-06-2	1,2-Dichloroethane	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
127-18-4	Tetrachloroethene	6	U

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2-1-96

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1208

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-04
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1404.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 18.61 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	6	U
124-48-1	Dibromochloromethane	6	U
591-78-6	2-Hexanone	25	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
1330-20-7	Xylene (total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
106-43-4	4-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
99-99-091	4-Isopropyltoluene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U

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2-1-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0100-95-1209

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) WATER Lab Sample ID: 5514-05RE
Sample wt/vol: 5.00 (g/ml)ML Lab File ID: R1405.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 100.00 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
S-055	Trichlorotrifluoroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0100-95-1210

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-06
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1406.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 7.43 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
S-055	Trichlorotrifluoroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
67-64-1	Acetone	140	
75-09-2	Methylene Chloride	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
75-34-3	1,1-Dichloroethane	5	U
590-20-7	2,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
78-93-3	2-Butanone	26	
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
563-58-6	1,1-Dichloropropene	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	9	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1210

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-06
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1406.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 7.43 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	5	U
124-48-1	Dibromochloromethane	5	U
591-78-6	2-Hexanone	22	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
106-43-4	4-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
99-99-091	4-Isopropyltoluene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U

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2-1-96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1209

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-01
Sample wt/vol: 30.00 (g/ml) G Lab File ID: R1401
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 20.18 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.54

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	410	U
62-53-3	Aniline	410	U
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic acid	2000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U

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2-1-96

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1205

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-01
Sample wt/vol: 30.00 (g/ml) G Lab File ID: R1401
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 20.18 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.54

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
103-33-3	Azobenzene	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
117-81-7	Bis(2-Ethylhexyl)phthalate	410	U
218-01-9	Chrysene	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenz(a,h)anthracene	410	U

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2-1-96

1G.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1205

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-01
Sample wt/vol: 30.00 (g/ml) G Lab File ID: R1401
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 20.18 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.54

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(g,h,i)perylene	410	U
100-51-6	Benzyl alcohol	410	U
86-74-8	Carbazole	410	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1206

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-02
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1402
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 17.22 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.42

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	400	U
62-53-3	Aniline	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic acid	1900	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	960	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	960	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U

bis
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1206

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-02
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1402
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 17.22 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.42

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	960	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	960	U
100-02-7	4-Nitrophenol	960	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	960	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
103-33-3	Azobenzene	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
117-81-7	Bis(2-Ethylhexyl)phthalate	400	U
218-01-9	Chrysene	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenz(a,h)anthracene	400	U

bis
2-1-96

2

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1206

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-02
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1402
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 17.22 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.42

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(g,h,i)perylene	400	U
100-51-6	Benzyl alcohol	400	U
86-74-8	Carbazole	400	U

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2-1-96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1207

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-03
Sample wt/vol: 30.02 (g/ml) G Lab File ID: R1403
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 8.72 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.82

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	360	U
62-53-3	Aniline	360	U
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U

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2-1-96

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1207

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-03
Sample wt/vol: 30.02 (g/ml) G Lab File ID: R1403
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 8.72 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.82

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
103-33-3	Azobenzene	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
117-81-7	Bis(2-Ethylhexyl)phthalate	360	U
218-01-9	Chrysene	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenz(a,h)anthracene	360	U

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2-1-96

28

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1207

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-03
Sample wt/vol: 30.02 (g/ml) G Lab File ID: R1403
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 8.72 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.82

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(g,h,i)perylene	360	U
100-51-6	Benzyl alcohol	360	U
86-74-8	Carbazole	360	U

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2-1-96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1208

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-04
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1404
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 18.61 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.44

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	400	U
62-53-3	Aniline	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic acid	2000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	980	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U

bis
2-1-96

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1208

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-04
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1404
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 18.61 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.44

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	980	U
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	810	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
103-33-3	Azobenzene	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
117-81-7	Bis(2-Ethylhexyl)phthalate	400	U
218-01-9	Chrysene	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenz(a,h)anthracene	400	U

bis
2-1-96

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1208

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-04
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1404
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 18.61 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.44

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(g,h,i)perylene	400	U
100-51-6	Benzyl alcohol	400	U
86-74-8	Carbazole	400	U

FORM I SV-1 3/90

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1210

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-06
Sample wt/vol: 30.03 (g/ml) G Lab File ID: R1406
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 7.43 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.52

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	360	U
62-53-3	Aniline	360	U
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	860	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	860	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U

bjs
2-1-96

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1210

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-06
Sample wt/vol: 30.03 (g/ml) G Lab File ID: R1406
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 7.43 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.52

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	860	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
103-33-3	Azobenzene	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
117-81-7	Bis(2-Ethylhexyl)phthalate	360	U
218-01-9	Chrysene	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenz(a,h)anthracene	360	U

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2-1-96

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1210

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-06
Sample wt/vol: 30.03 (g/ml) G Lab File ID: R1406
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 7.43 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.52

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(g,h,i)perylene	360	U
100-51-6	Benzyl alcohol	360	U
86-74-8	Carbazole	360	U

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2-1-96

"Level One" Inorganic Validation Summary

SDG/RN: 1697
Date: 2/26/96

Criteria Examined:

Spike recoveries
Duplicate sample
Sample Data
LCS
ICS
Method blank(s)

Listed Criteria Met? NO
If criteria were not met, comment below using reason codes:
Samples 0100-95-1205, 0100-95-1206, 0100-95-1207, 0100-95-1208, and 0100-95-1210: Reason code 3a for Lead (Pb) and Manganese (Mn).

Samples 0100-95-1205, 0100-95-1206, 0100-95-1207, 0100-95-1208, and 0100-95-1210: Reason code 3e for Antimony (Sb).

Samples 0100-95-1205, 0100-95-1206, 0100-95-1207, 0100-95-1208, and 0100-95-1210: % RPD is > 35% for Barium (Ba), Calcium (Ca), and Zinc (Zn) for the duplicate analysis. A reason code is not provided for addressing this non-compliance. Sample results for Ba, Ca, and Zn should be considered estimated (J).

Samples 0100-95-1205, 0100-95-1206, 0100-95-1207, 0100-95-1208, and 0100-95-1210: For the serial dilution analysis, the sample result was > 50x the EDL and that the %D was > 10% for Copper (Cu), Potassium (K), and Sodium (Na) indicating possible matrix effect on a dilution problem. A reason code is not provided for addressing this non-compliance. Sample results for Cu. K,and Na should be considered estimated (UJ or J).

Signature/Validation: Laura A. Kelly CST-12

Laura Kelly
2/26/96

COPY

CCS/VALIDATION COVER SHEET

M Code_____ Field Unit___ SDG/RN: 1697 LAB CODE_____

NAME OF CCS CHECKER_____ COMPANY_____

NAME OF VALIDATOR Barbara Seymour COMPANY LATA (1697)

CCS DATE_____ VALIDATION DATE 2-7-96 EDS ENTRY DATE_____

ANALYTICAL SUITE:

- ☐ VOLATILES
- ☐ SEMIVOLATILES
- ☐ PESTICIDES/AROCLORS
- ☐ HIGH EXPLOSIVES
- ☑ INORGANICS
- ☐ RADIOCHEMISTRY

GENERAL CHECKLIST

		PRESENT? √ if "yes" O if "no"
1.	Case Narrative	_____
2.	Airbills (no. Of shipments___)	_____
3.	Chain-of-custody records	_____
4.	Sample tags	_____
5.	Sample log-in sheets	_____
6.	Internal lab sample transfer records and tracking sheets	_____
7.	Other? Identify_____	

Are all samples assigned to the SDG present? ☐ YES ☐ NO

Identify any samples in the assigned SDG/RN that are missing

_____ _____ _____ _____ _____

_____ _____ _____ _____ _____

Comments/problems noted, including information about requests to the laboratory and agreed upon data of resolution and lab contact: (attach additional comment sheets as necessary)

_____

_____

_____

Signature/CCS _____

Signature/validation Barbara Seymour

INORGANICS

<u>Calibration</u> Present? yes no <u>Initial calibration verification</u> Present? yes no <u>Continuing calibration verification</u> Present? yes no	NA ok	Obtain from lab. Q=A Obtain form lab. Q=A	
<u>Blanks</u> (Applies to each) Present? yes no <u>Initial & continuing calibration blanks</u> Analyze at each wavelength Beginning and end of each run ICB and CCB analyzed at a frequency of 10% or 2 hours If blank results > EDL reanalyze previous 10 samples <u>Preparation blank</u> One per batch ≤ EDL, or if concentration of analyte < 10X EDL, repeat all samples in batch See pg. 14a	qualified U	Obtain from lab. Q=A Use "worse" case blank. Sample results > EDL but < 5 X amount found in the blank should be qualified as <u>U</u>.	<u>14</u>

ICP Interference check sample Present? (yes) no Solution contains Ag, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, V, & Zn Analyze at beginning of each run Each wavelength used for samples ICS results must be ± 20%of true value Na = 154.5 no samples > EDL no qualifiers	ok	Obtain from lab. Q=A If the ICS recovery is >120% and the results are >EDL, qualify data as J+ If recovery is 50-79%, qualify data as J- If ICS recovery is < 50% and results are < EDL, qualify results as R, PM	I7 I7a I7b
Spike sample analysis Present? (yes) no One per run, per matrix, concentration, SDG % recovery: 75-125% (unless conc. > 4X spike conc.) Spike	J- UJ	Obtain from lab. Q=A If spike recovery > 125% and results < EDL, OK If spike recovery < 75% and results are >EDL, qualify results as J- if same matrix, P if not. If spike recovery > 125% and results are >EDL, qualify data as J+ if same matrix, P if not. If spike recovery 30-74% and sample results < EDL, qualify as UJ if same matrix, P if not. If spike recovery results < 30% and results < EDL, qualify as R, PM.	I3a I3 I3e I3d

Analyte	% R	Q	Reason Code
Antimony	37.8	J-/UJ	13a/13e
Lead	28.1	↓	↓
Manganese	64.1		

APPENDIX A QUALITY ASSURANCE/QUALITY CONTROL

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"Level One" Organic Validation Summary

SDG/RN: 1696
Date: 2/26/96

SVOC's and/or VOC's Criteria Examined: SVOC's,VOC's and TPH

Surrogates or System Monitoring Compounds (SVOC and VOC only)
Internal Standards (SVOC and VOC only)
Sample Data
LCS and/or MS/MSD
% RSD and % D for detected target compounds
Response factors of target compounds
Method blank(s)

OCP/PCB and/or HE Criteria Examined: NA

Surrogates
Sample Data
LCS and/or MS/MSD
% RSD and/or % D for detected target compounds
Method blank(s)

Listed Criteria Met? YES
If criteria were not met, comment below using reason codes:

Signature/Validation: Laura A. Kelly CST-12

Laura Kelly
2/26/96

CRITERIA	MET? NO/Q	VALIDATION QUALIFIER (Q) RULES	REASON CODE
VOLATILES			
Instrument Performance Check Present? yes no	NA	Obtain from lab. Q=A	
Initial calibration: Present? yes no Continuing Calibration Present? yes no		Obtain from lab. Q=A Analytes not meeting RRF or % RSD criteria should be circled on Initial Calibration Form N/A Obtain from lab. Q=A Analytes not meeting RRF or % D criteria should be circled on Continuing Calibration Form N/A	

Internal Standards Present? yes no Required IS: chlorobenzene-d5 1,4-difluorobenzene 1,4-dichlorbenzene -d4 RT must be < ± 30 sec. from previous continuing calibraition Response area must not vary by > factor of 2 (+100, -50) from previous continuing calibration	ok	Check manually during baseline validation. Obtain from lab. Q=A If RT varies by > 30 seconds, qualify with PM, in which case focused validation checks the chromato-graphic profile for false + or -. If an IS area count is outside the -50 +100 % criterion, qualify positive results quantified by the IS with J,PM Non-detects quantified by the IS as UJ if area count < 50 % Very low or abrupt drop-off, R Enter % variation in FIMAD table	 V1 V1a V2

System Monitoring Compounds (SMC) or surrogates Present? yes no % recovery Water Toluene-d8 88-110% BFB 86-115% Dibromofluoromethane 86-118% % recovery Soil Toluene-d8 81-117% BFB 74-121 Dibromofluoromethane 80-120	ok	Obtain from lab. Q=A If SMC % recovery > upper limit, detected target compounds are qualified with J+. For non-detects, not qualified If SMC has % recovery < lower limit but ≥ 10%, qualify detected compounds with J- For detected compounds, same J- qualifier if recovery of SMC < 10% For non-detects, the quantitation limit is qualified as approximated, UJ, when SMC is ≥10% For non-detected analytes, if SMC recovery <10%, reject R, PM Do not qualify results for diluted samples based on SMC/ Surrogate recoveries Enter % recovery in FIMAD table	V3 V3a V3b V3c V3d

Method Blanks Present? yes no Separate blank for each method, matrix and/or 12 hour batch Target compounds must be ≤ EQL except acetone, methylene chloride, and 2-butanone which can be present at ≤ 5 X EQL.	ok	Obtain from lab. Q=A If target compound found in blank but not in sample, no qualifier. Sample result > EQL and < 5 X (< 10x for noted exceptions) multiple of blank, elevate EQL to sample result and qualify as U. Sample result < EQL and < 5X (< 10x for noted exceptions) multiple of blank, elevate sample results to EQL and qualify as U. Sample result > 5X multiple, OK	V4 V5
Holding time Analysis within 14 days of sample collection for soil and 7 days for water.	ok	Compare date of analysis with sampling date on Analytical Request Q=PM if not met	
TICs (if requested) Present yes no not requested	ok	Hold Time	

	Coll D.	Analy D	Δ	Q
soil	12-18	12-21	3	ok
water	12-18	12-21	3	ok

SEMIVOLATILES

Instrument performance check (DFTPP) Present? yes no	NA ok	Obtain from lab. Q=A	
Initial Calibration Present? yes no (	ok	Obtain from lab. Q=A Analytes not meeting RRF or % RSD criteria should be circled on Initial Calibration Form N/A	
Continuing calibration Present? yes no		Obtain from lab. Q=A Analytes not meeting RRF or % D criteria should be circled on Continuing Calibration Form N/A	

Internal Standards		Check manually during baseline validation	
Present? yes no	ok	Obtain from lab. Q=A	
Required IS: 1,4-dichlorobenzene-d4 naphthalene -d8 acenaphthene-d10 phenanthrene-d10 chrysene-d12 perylene-d12		If RT varies by > 30 seconds, qualify with PM, in which case check the chromatographic profile for false + or -. If an IS area count is outside the -50 +100 % criterion, qualify positve results quantified by the IS with J,PM	SV1
RT < 30 sec. for previous daily calibration		Non-detects quantified by the IS as UJ if area count < 50 %	SV1a
Response area must not vary by > +100, -50% from previoius daily calibration		Very low or abrupt drop-off, R	SV2
		Enter % variation in FIMAD table	

Surrogates: Present? yes no % recovery Water Nitrobenzene-d5 35-114 2-Fluorobiphenyl 43-116 p-Terphenyl 33-141 Phenol-d6 10-94 2-Fluorophenol 21-100 2,4,6-Tribromophenol 10-123 % recovery Soil Nitrobenzene-d5 23-120 2-Fluorobiphenyl 30-115 p-Terphenyl 18-137 Phenol-d6 24-113 2-Fluorophenol 25-121 2,4,6-Tribromophenol 19-122	ok	Obtain from lab. Q=A If 2 or more surrogates in either SV fraction have a recovery > UL, specify the fraction being qualified and qualify detected target compounds with J+ and no qualifier for non-detects. If 2 or more surrogates in either fraction have a recovery ≥ 10% but < LL, specifiy the fractin being qualified and qualify as J-. Qualify non-detected target compounds as U,J. If > 2 surrogates out in either fraction, one with a recovery > UL and one with a recovery ≥ 10% but < LL, qualify as above. If any surrogate in either fraction < 10% recovery, specify the fraction being qualifed and qualify detected compounds as J- and non-detects as R, PM. Do not qualify results for diluted samples based on surrogate recoveries. Enter % recovery in FIMAD table	SV3 SV3a SV3c SV3e SV3b SV3d

Method Blanks Present? yes no 1 for each method, matrix, and/or analytical batch. Target analytes ≤ EQL except for common phthalates, which can be up to 5X EQL.		Obtain from lab. Q=A If target compound found in blank but not in sample, no qualifier. Sample result > EQL and < 5 X (< 10x for noted exceptions) multiple of blank, elevate EQL to sample result and qualify as U. Sample result < EQL and < 5X (< 10x for noted exceptions) multiple of blank, elevate sample results to EQL and qualify as U. Sample result > 5X multiple, OK	SV4 SV5
Holding time Extraction within 14 days of sample collection for soil and 7 days for water. Analysis within 40 days of extraction		Compare date of extraction with sampling date on Analytical Request and date of analysis with date of extraction. Q=PM	
TICs (if requested) Present yes no not requested			

Hold Time

Coll D.	Extr. D.	Δ	Analy D.	Δ
12-18	12-20	2	~~12-20~~ 6,5 12-22	2

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0100-95-1205

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-01
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1401.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 20.18 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
S-055	Trichlorotrifluoroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
67-64-1	Acetone	13	J
75-09-2	Methylene Chloride	6	U
156-59-2	cis-1,2-Dichloroethene	6	J
75-34-3	1,1-Dichloroethane	6	U
590-20-7	2,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	J
78-93-3	2-Butanone	25	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	6	U
107-06-2	1,2-Dichloroethane	6	U
79-01-6	Trichloroethene	8	
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
127-18-4	Tetrachloroethene	6	U

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Duplicate Present? yes no One per batch of sample of like matrix for each SDG RPD : ≤ 20% (advisory) If either the sample or duplicate value is less than 5 X EDL, there is a control limit of ± EDL	P advisory	Obtain from lab. Q=A Q=P because of nature of LANL samples.	
Laboratory Control Sample (LCS) Aqueous LCS per batch/SDG % recovery : 80-120% (except Ag & Sb)	NA Soil	If criterion not met, qualify each analyte associated with the LCS in the same batch as J- for < 80% and J+ for > 120%	I6a I6
Holding time Analyze water samples for Hg within 28 days of sample collection Analyze water samples for CN within 14 days of sample collection	ok	Compare analysis date with date of sample collection on the Analysis Request. Q=PM	

Duplicate	RPD
Barium	37.8
Calcium	58.4
Lead	22.3
Zinc	36.4

Hold Time Req		Coll D	Analy D	Δ	Q
Metals	180	12-18	1-2	15	>
Hg	28	12-18	1-13	26	

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95-1205

Lab Name: S_CUBED Contract: 32596-45

Lab Code: S3 Case No.: 1697 SAS No.: SDG No.: 5515

Matrix (soil/water): SOIL Lab Sample ID: 5515-01

Level (low/med): LOW Date Received: 12/20/95

% Solids: 79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	19600			P	
7440-36-0	Antimony	0.29	U	UJN	P	I3e
7440-38-2	Arsenic	4.5			P	
7440-39-3	Barium	155		* P	P	
5947-30-4	Beryllium	1.3			P	
7440-43-9	Cadmium	0.34	B		P	
7440-70-2	Calcium	2870		* P	P	
7440-47-3	Chromium	14.7			P	
7440-48-4	Cobalt	4.8	B		P	
7440-50-8	Copper	10.6		E	P	
7439-89-6	Iron	22400			P	
7439-92-1	Lead	18.8		J-N* P	P	I3a
7439-95-4	Magnesium	3380			P	
7439-96-5	Manganese	253		J-N	P	I3a
7439-97-6	Mercury	0.13	U		CV	
7440-02-0	Nickel	12.9			P	
7440-09-7	Potassium	2540		E	P	
7782-49-2	Selenium	0.74	U		P	
7440-22-4	Silver	0.14	U		P	
7440-23-5	Sodium	173	B	E	P	
7440-28-0	Thallium	0.73	B		P	
7440-62-2	Vanadium	26.9			P	
7440-66-6	Zinc	65.0		* P	P	
7439-98-7	Molybdenu	0.42	B		P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95-1206

Lab Name: S_CUBED Contract: 32596-45

Lab Code: S3 Case No.: 1697 SAS No.: SDG No.: 5515

Matrix (soil/water): SOIL Lab Sample ID: 5515-02

Level (low/med): LOW Date Received: 12/20/95

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12700			P	
7440-36-0	Antimony	0.27	U	UJN	P	I3e
7440-38-2	Arsenic	3.4			P	
7440-39-3	Barium	140		* P	P	
5947-30-4	Beryllium	0.74	B		P	
7440-43-9	Cadmium	0.19	B		P	
7440-70-2	Calcium	2000		* P	P	
7440-47-3	Chromium	11.7			P	
7440-48-4	Cobalt	7.6	B		P	
7440-50-8	Copper	7.6		E	P	
7439-89-6	Iron	13100			P	
7439-92-1	Lead	15.2		J-N* P	P	I3a
7439-95-4	Magnesium	2170			P	
7439-96-5	Manganese	313		J-N	P	I3a
7439-97-6	Mercury	0.12	U		CV	
7440-02-0	Nickel	7.8	B		P	
7440-09-7	Potassium	1920		E	P	
7782-49-2	Selenium	0.70	U		P	
7440-22-4	Silver	0.21	B		P	
7440-23-5	Sodium	162	B	E	P	
7440-28-0	Thallium	0.50	U		P	
7440-62-2	Vanadium	28.2			P	
7440-66-6	Zinc	32.0		* P	P	
7439-98-7	Molybdenu	0.51	B		P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95-1207

Lab Name: S_CUBED Contract: 32596-45

Lab Code: S3 Case No.: 1697 SAS No.: SDG No.: 5515

Matrix (soil/water): SOIL Lab Sample ID: 5515-03

Level (low/med): LOW Date Received: 12/20/95

% Solids: 81.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14800			P	
7440-36-0	Antimony	0.28	U	UN	P	I3e
7440-38-2	Arsenic	3.9			P	
7440-39-3	Barium	164		*	P	
5947-30-4	Beryllium	0.79	B		P	
7440-43-9	Cadmium	0.20	B		P	
7440-70-2	Calcium	2130		*	P	
7440-47-3	Chromium	12.3			P	
7440-48-4	Cobalt	6.7	B		P	
7440-50-8	Copper	7.5		E	P	
7439-89-6	Iron	14100			P	
7439-92-1	Lead	16.3		J-N*	P	I3a
7439-95-4	Magnesium	2480			P	
7439-96-5	Manganese	464		J N	P	I3a
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	8.1	B		P	
7440-09-7	Potassium	2030		E	P	
7782-49-2	Selenium	0.72	U		P	
7440-22-4	Silver	0.14	U		P	
7440-23-5	Sodium	158	B	E	P	
7440-28-0	Thallium	0.51	U		P	
7440-62-2	Vanadium	26.0			P	
7440-66-6	Zinc	35.3		*	P	
7439-98-7	Molybdenu	0.58	B		P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95-1208

Lab Name: S_CUBED Contract: 32596-45

Lab Code: S3 Case No.: 1697 SAS No.: SDG No.: 5515

Matrix (soil/water): SOIL Lab Sample ID: 5515-04

Level (low/med): LOW Date Received: 12/20/95

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15300			P	
7440-36-0	Antimony	0.35	~~B~~	UNW	P	I4, I3e
7440-38-2	Arsenic	3.9			P	
7440-39-3	Barium	160		* P	P	
5947-30-4	Beryllium	0.85	B		P	
7440-43-9	Cadmium	0.23	B		P	
7440-70-2	Calcium	2190		* P	P	
7440-47-3	Chromium	13.6			P	
7440-48-4	Cobalt	8.3	B		P	
7440-50-8	Copper	9.1		E	P	
7439-89-6	Iron	15500			P	
7439-92-1	Lead	15.1		J-N*P	P	I3a
7439-95-4	Magnesium	2600			P	
7439-96-5	Manganese	437		J-N	P	I3a
7439-97-6	Mercury	0.12	U		CV	
7440-02-0	Nickel	8.5	B		P	
7440-09-7	Potassium	2100		E	P	
7782-49-2	Selenium	0.72	U		P	
7440-22-4	Silver	0.14	U		P	
7440-23-5	Sodium	130	B	E	P	
7440-28-0	Thallium	0.51	U		P	
7440-62-2	Vanadium	31.8			P	
7440-66-6	Zinc	35.0		* P	P	
7439-98-7	Molybdenu	0.23	B		P	

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95-1210

Lab Name: S_CUBED Contract: 32596-45

Lab Code: S3 Case No.: 1697 SAS No.: SDG No.: 551

Matrix (soil/water): SOIL Lab Sample ID: 5515-05

Level (low/med): LOW Date Received: 12/20/9

% Solids: 85.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	10600			P	
7440-36-0	Antimony	0.31	B	UJN	P	I4, I3e
7440-38-2	Arsenic	2.8			P	
7440-39-3	Barium	134		* P	P	
5947-30-4	Beryllium	0.69	B		P	
7440-43-9	Cadmium	0.21	B		P	
7440-70-2	Calcium	1700		* P	P	
7440-47-3	Chromium	10.8			P	
7440-48-4	Cobalt	8.5	B		P	
7440-50-8	Copper	6.7		E	P	
7439-89-6	Iron	11500			P	
7439-92-1	Lead	13.8		J-N* P	P	I3a
7439-95-4	Magnesium	1810			P	
7439-96-5	Manganese	380		J-N	P	I3a
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	7.4	B		P	
7440-09-7	Potassium	1780		E	P	
7782-49-2	Selenium	0.69	U		P	
7440-22-4	Silver	0.13	U		P	
7440-23-5	Sodium	109	B	E	P	
7440-28-0	Thallium	0.49	U		P	
7440-62-2	Vanadium	27.5			P	
7440-66-6	Zinc	28.1		* P	P	
7439-98-7	Molybdenu	0.16	U		P	

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APPENDIX B RFI CHARACTERIZATION DATA

As explained in Section 2.1 of this report, RFI site characterization was not performed for C-0-042 because the waste oil UST was not encountered until after the RFI had been completed. Results of samples taken from the contents of the UST, waste characterization samples, and confirmation samples are provided in the body of this report.

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APPENDIX C FINAL COSTS

Final costs for the VCA at C-0-042 are not yet available.

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APPENDIX D CONFIRMATORY SAMPLING RESULTS

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95-1205

Lab Name: S_CUBED Contract: 32596-45

Lab Code: S3 Case No.: 1697 SAS No.: SDG No.: 5515

Matrix (soil/water): SOIL Lab Sample ID: 5515-01

Level (low/med): LOW Date Received: 12/20/95

% Solids: 79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	19600			P	
7440-36-0	Antimony	0.29	U	UJN	P	I3e
7440-38-2	Arsenic	4.5			P	
7440-39-3	Barium	155		* P	P	
5947-30-4	Beryllium	1.3			P	
7440-43-9	Cadmium	0.34	B		P	
7440-70-2	Calcium	2870		* P	P	
7440-47-3	Chromium	14.7			P	
7440-48-4	Cobalt	4.8	B		P	
7440-50-8	Copper	10.6		E	P	
7439-89-6	Iron	22400			P	
7439-92-1	Lead	18.8		J-N* P	P	I3a
7439-95-4	Magnesium	3380			P	
7439-96-5	Manganese	253		J-N	P	I3a
7439-97-6	Mercury	0.13	U		CV	
7440-02-0	Nickel	12.9			P	
7440-09-7	Potassium	2540		E	P	
7782-49-2	Selenium	0.74	U		P	
7440-22-4	Silver	0.14	U		P	
7440-23-5	Sodium	173	B	E	P	
7440-28-0	Thallium	0.73	B		P	
7440-62-2	Vanadium	26.9			P	
7440-66-6	Zinc	65.0		* P	P	
7439-98-7	Molybdenu	0.42	B		P	

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95-1206

Lab Name: S_CUBED Contract: 32596-45

Lab Code: S3 Case No.: 1697 SAS No.: SDG No.: 5515

Matrix (soil/water): SOIL Lab Sample ID: 5515-02

Level (low/med): LOW Date Received: 12/20/95

% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12700			P	
7440-36-0	Antimony	0.27	U	UJN	P	I3e
7440-38-2	Arsenic	3.4			P	
7440-39-3	Barium	140		* P	P	
5947-30-4	Beryllium	0.74	B		P	
7440-43-9	Cadmium	0.19	B		P	
7440-70-2	Calcium	2000		* P	P	
7440-47-3	Chromium	11.7			P	
7440-48-4	Cobalt	7.6	B		P	
7440-50-8	Copper	7.6		E	P	
7439-89-6	Iron	13100			P	
7439-92-1	Lead	15.2		J-N* P	P	I3a
7439-95-4	Magnesium	2170			P	
7439-96-5	Manganese	313		J-N	P	I3a
7439-97-6	Mercury	0.12	U		CV	
7440-02-0	Nickel	7.8	B		P	
7440-09-7	Potassium	1920		E	P	
7782-49-2	Selenium	0.70	U		P	
7440-22-4	Silver	0.21	B		P	
7440-23-5	Sodium	162	B	E	P	
7440-28-0	Thallium	0.50	U		P	
7440-62-2	Vanadium	28.2			P	
7440-66-6	Zinc	32.0		* P	P	
7439-98-7	Molybdenu	0.51	B		P	

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95-1207

Lab Name: S_CUBED Contract: 32596-45

Lab Code: S3 Case No.: 1697 SAS No.: SDG No.: 5515

Matrix (soil/water): SOIL Lab Sample ID: 5515-03

Level (low/med): LOW Date Received: 12/20/95

% Solids: 81.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14800			P	
7440-36-0	Antimony	0.28	U	UN	P	J3e
7440-38-2	Arsenic	3.9			P	
7440-39-3	Barium	164		*	P	
5947-30-4	Beryllium	0.79	B		P	
7440-43-9	Cadmium	0.20	B		P	
7440-70-2	Calcium	2130		*	P	
7440-47-3	Chromium	12.3			P	
7440-48-4	Cobalt	6.7	B		P	
7440-50-8	Copper	7.5		E	P	
7439-89-6	Iron	14100			P	
7439-92-1	Lead	16.3		J-N*	P	J3a
7439-95-4	Magnesium	2480			P	
7439-96-5	Manganese	464		J N	P	J3a
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	8.1	B		P	
7440-09-7	Potassium	2030		E	P	
7782-49-2	Selenium	0.72	U		P	
7440-22-4	Silver	0.14	U		P	
7440-23-5	Sodium	158	B	E	P	
7440-28-0	Thallium	0.51	U		P	
7440-62-2	Vanadium	26.0			P	
7440-66-6	Zinc	35.3		*	P	
7439-98-7	Molybdenu	0.58	B		P	

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95-1208

Lab Name: S_CUBED Contract: 32596-45

Lab Code: S3 Case No.: 1697 SAS No.: SDG No.: 5515

Matrix (soil/water): SOIL Lab Sample ID: 5515-04

Level (low/med): LOW Date Received: 12/20/95

% Solids: 83.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15300			P	
7440-36-0	Antimony	0.35	~~B~~	UNW	P	I4, I3e
7440-38-2	Arsenic	3.9			P	
7440-39-3	Barium	160		* P	P	
5947-30-4	Beryllium	0.85	B		P	
7440-43-9	Cadmium	0.23	B		P	
7440-70-2	Calcium	2190		* P	P	
7440-47-3	Chromium	13.6			P	
7440-48-4	Cobalt	8.3	B		P	
7440-50-8	Copper	9.1		E	P	
7439-89-6	Iron	15500			P	
7439-92-1	Lead	15.1		J-N*P	P	I3a
7439-95-4	Magnesium	2600			P	
7439-96-5	Manganese	437		J-N	P	I3a
7439-97-6	Mercury	0.12	U		CV	
7440-02-0	Nickel	8.5	B		P	
7440-09-7	Potassium	2100		E	P	
7782-49-2	Selenium	0.72	U		P	
7440-22-4	Silver	0.14	U		P	
7440-23-5	Sodium	130	B	E	P	
7440-28-0	Thallium	0.51	U		P	
7440-62-2	Vanadium	31.8			P	
7440-66-6	Zinc	35.0		* P	P	
7439-98-7	Molybdenu	0.23	B		P	

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

95-1210

Lab Name: S_CUBED Contract: 32596-45

Lab Code: S3 Case No.: 1697 SAS No.: SDG No.: 5515

Matrix (soil/water): SOIL Lab Sample ID: 5515-05

Level (low/med): LOW Date Received: 12/20/95

% Solids: 85.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	10600			P	
7440-36-0	Antimony	0.31	B	UJN	P	I4, I3e
7440-38-2	Arsenic	2.8			P	
7440-39-3	Barium	134		* P	P	
5947-30-4	Beryllium	0.69	B		P	
7440-43-9	Cadmium	0.21	B		P	
7440-70-2	Calcium	1700		* P	P	
7440-47-3	Chromium	10.8			P	
7440-48-4	Cobalt	8.5	B		P	
7440-50-8	Copper	6.7		E	P	
7439-89-6	Iron	11500			P	
7439-92-1	Lead	13.8		J-N* P	P	I3a
7439-95-4	Magnesium	1810			P	
7439-96-5	Manganese	380		J-N	P	I3a
7439-97-6	Mercury	0.11	U		CV	
7440-02-0	Nickel	7.4	B		P	
7440-09-7	Potassium	1780		E	P	
7782-49-2	Selenium	0.69	U		P	
7440-22-4	Silver	0.13	U		P	
7440-23-5	Sodium	109	B	E	P	
7440-28-0	Thallium	0.49	U		P	
7440-62-2	Vanadium	27.5			P	
7440-66-6	Zinc	28.1		* P	P	
7439-98-7	Molybdenu	0.16	U		P	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1205

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-01
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1401.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 20.18 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
S-055	Trichlorotrifluoroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
67-64-1	Acetone	13	J
75-09-2	Methylene Chloride	6	U
156-59-2	cis-1,2-Dichloroethene	6	J
75-34-3	1,1-Dichloroethane	6	U
590-20-7	2,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	J
78-93-3	2-Butanone	25	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	6	U
107-06-2	1,2-Dichloroethane	6	U
79-01-6	Trichloroethene	8	
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
127-18-4	Tetrachloroethene	6	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1205

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-01
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1401.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 20.18 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	6	U
124-48-1	Dibromochloromethane	6	U
591-78-6	2-Hexanone	25	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
1330-20-7	Xylene (total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
106-43-4	4-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
99-99-091	4-Isopropyltoluene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1206

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-02
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1402.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 17.22 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
S-055	Trichlorotrifluoroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
67-64-1	Acetone	30	
75-09-2	Methylene Chloride	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
590-20-7	2,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
78-93-3	2-Butanone	24	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	6	U
107-06-2	1,2-Dichloroethane	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	24	U
108-88-3	Toluene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
127-18-4	Tetrachloroethene	6	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1206

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-02
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1402.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 17.22 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	6	U
124-48-1	Dibromochloromethane	6	U
591-78-6	2-Hexanone	24	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
1330-20-7	Xylene (total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
106-43-4	4-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
99-99-091	4-Isopropyltoluene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1207

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-03
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1403.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 8.72 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
S-055	Trichlorotrifluoroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
67-64-1	Acetone	10	J
75-09-2	Methylene Chloride	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
590-20-7	2,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
78-93-3	2-Butanone	22	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
563-58-6	1,1-Dichloropropene	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	22	U
108-88-3	Toluene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

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2-1-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0100-95-1207

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-03
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1403.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 8.72 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	5	U
124-48-1	Dibromochloromethane	5	U
591-78-6	2-Hexanone	22	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
106-43-4	4-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
99-99-091	4-Isopropyltoluene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U

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2-1-96

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1208

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-04
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1404.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 18.61 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
S-055	Trichlorotrifluoroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
74-88-4	Iodomethane	6	U
75-15-0	Carbon Disulfide	6	U
67-64-1	Acetone	200	
75-09-2	Methylene Chloride	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
590-20-7	2,2-Dichloropropane	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
78-93-3	2-Butanone	27	
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	6	U
107-06-2	1,2-Dichloroethane	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
127-18-4	Tetrachloroethene	6	U

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2-1-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0100-95-1208

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-04
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1404.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 18.61 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	6	U
124-48-1	Dibromochloromethane	6	U
591-78-6	2-Hexanone	25	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
1330-20-7	Xylene (total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
106-43-4	4-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
99-99-091	4-Isopropyltoluene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
96-12-8	1,2-Dibromo-3-Chloropropane	12	U

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2-1-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0100-95-1209

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) WATER Lab Sample ID: 5514-05RE
Sample wt/vol: 5.00 (g/ml)ML Lab File ID: R1405.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 100.00 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
S-055	Trichlorotrifluoroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
67-64-1	Acetone	20	U
75-09-2	Methylene Chloride	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
590-20-7	2,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
78-93-3	2-Butanone	11	J
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
563-58-6	1,1-Dichloropropene	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	20	U
108-88-3	Toluene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

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2-1-96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0100-95-1209

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) WATER Lab Sample ID: 5514-05RE
Sample wt/vol: 5.00 (g/ml) ML Lab File ID: R1405.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 100.00 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	5	U
124-48-1	Dibromochloromethane	5	U
591-78-6	2-Hexanone	20	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
106-43-4	4-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
99-99-091	4-Isopropyltoluene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U

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2-1-96

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1210

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-06
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1406.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 7.43 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
S-055	Trichlorotrifluoroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
67-64-1	Acetone	140	
75-09-2	Methylene Chloride	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
75-34-3	1,1-Dichloroethane	5	U
590-20-7	2,2-Dichloropropane	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
78-93-3	2-Butanone	26	
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
563-58-6	1,1-Dichloropropene	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	9	
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-Pentanone	22	U
108-88-3	Toluene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

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2-1-96

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1210

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-06
Sample wt/vol: 5.00 (g/ml)G Lab File ID: A1406.D
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: not dec. 7.43 Date Analyzed: 12/21/95
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
142-28-9	1,3-Dichloropropane	5	U
124-48-1	Dibromochloromethane	5	U
591-78-6	2-Hexanone	22	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
106-43-4	4-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
99-99-091	4-Isopropyltoluene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	11	U

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2-1-96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1205

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-01
Sample wt/vol: 30.00 (g/ml) G Lab File ID: R1401
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 20.18 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.54

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	410	U
62-53-3	Aniline	410	U
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
65-85-0	Benzoic acid	2000	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U

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2-1-96

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1205

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-01
Sample wt/vol: 30.00 (g/ml) G Lab File ID: R1401
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 20.18 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.54

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
103-33-3	Azobenzene	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
117-81-7	Bis(2-Ethylhexyl)phthalate	410	U
218-01-9	Chrysene	410	U
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenz(a,h)anthracene	410	U

bjs
2-1-96

1G.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1205

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-01
Sample wt/vol: 30.00 (g/ml) G Lab File ID: R1401
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 20.18 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume:1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.54

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(g,h,i)perylene	410	U
100-51-6	Benzyl alcohol	410	U
86-74-8	Carbazole	410	U

bjs
2-1-96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1206

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-02
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1402
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 17.22 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.42

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	400	U
62-53-3	Aniline	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic acid	1900	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	960	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	960	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U

bis
2-1-96

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1206

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-02
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1402
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 17.22 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.42

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	960	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	960	U
100-02-7	4-Nitrophenol	960	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	960	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
103-33-3	Azobenzene	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
117-81-7	Bis(2-Ethylhexyl)phthalate	400	U
218-01-9	Chrysene	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenz(a,h)anthracene	400	U

bjs
2-1-96

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1206

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-02
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1402
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 17.22 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.42

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(g,h,i)perylene	400	U
100-51-6	Benzyl alcohol	400	U
86-74-8	Carbazole	400	U

bjs
2-1-96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1207

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-03
Sample wt/vol: 30.02 (g/ml) G Lab File ID: R1403
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 8.72 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.82

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	360	U
62-53-3	Aniline	360	U
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	1800	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U

bjs
2-1-96

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1207

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-03
Sample wt/vol: 30.02 (g/ml) G Lab File ID: R1403
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 8.72 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.82

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	720	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
103-33-3	Azobenzene	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
117-81-7	Bis(2-Ethylhexyl)phthalate	360	U
218-01-9	Chrysene	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenz(a,h)anthracene	360	U

bjs
2-1-96

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1207

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-03
Sample wt/vol: 30.02 (g/ml) G Lab File ID: R1403
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 8.72 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.82

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(g,h,i)perylene	360	U
100-51-6	Benzyl alcohol	360	U
86-74-8	Carbazole	360	U

FORM I SV-1

3/90

bjs
2-1-96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1208

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-04
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1404
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 18.61 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.44

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	400	U
62-53-3	Aniline	400	U
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
65-85-0	Benzoic acid	2000	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	980	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U

bjs
2-1-96

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1208

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-04
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1404
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 18.61 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.44

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	400	U
51-28-5	2,4-Dinitrophenol	980	U
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	810	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
103-33-3	Azobenzene	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
117-81-7	Bis(2-Ethylhexyl)phthalate	400	U
218-01-9	Chrysene	400	U
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenz(a,h)anthracene	400	U

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2-1-96

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-120

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-04
Sample wt/vol: 30.07 (g/ml) G Lab File ID: R1404
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 18.61 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.44

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(g,h,i)perylene	400	U
100-51-6	Benzyl alcohol	400	U
86-74-8	Carbazole	400	U

FORM I SV-1

3/9

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2-1-96

32

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1210

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-06
Sample wt/vol: 30.03 (g/ml) G Lab File ID: R1406
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 7.43 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.52

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-75-9	N-Nitrosodimethylamine	360	U
62-53-3	Aniline	360	U
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	860	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	860	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U

bjs
2-1-96

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-121

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-06
Sample wt/vol: 30.03 (g/ml) G Lab File ID: R1406
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 7.43 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.52

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	860	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
103-33-3	Azobenzene	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
117-81-7	Bis(2-Ethylhexyl)phthalate	360	U
218-01-9	Chrysene	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenz(a,h)anthracene	360	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0100-95-1210

Lab Name: S-CUBED Contract: 32596-45
Lab Code: S3 Case No.: 1696 SAS No.: SDG No.: 5514
Matrix: (soil/water) SOIL Lab Sample ID: 5514-06
Sample wt/vol: 30.03 (g/ml) G Lab File ID: R1406
Level: (low/med) LOW Date Received: 12/20/95
%Moisture: 7.43 decanted: (Y/N) N Date Extracted: 12/20/95
Concentrated Extract Volume: 1000.00 (uL) Date Analyzed: 12/22/95
Injection Volume: 1.00 (u/L) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.52

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
191-24-2	Benzo(g,h,i)perylene	360	U
100-51-6	Benzyl alcohol	360	U
86-74-8	Carbazole	360	U

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APPENDIX E CERTIFICATION OF COMPLETION

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CERTIFICATION OF COMPLETION

I certify that all the work pertaining to the Voluntary Corrective Action Report has been completed in accordance with the Department of Energy approved VCA plan entitled VCA Plan for Potential Release Site C-0-042, Zia Motor Pool Waste Oil Underground Storage Tank. Based on my personal involvement or inquiry of the person or persons who managed this cleanup, a review of all data gathered and a visit to the site, to the best of my knowledge and belief, all criteria of the plan have been met or exceeded. I believe that the completion of this VCA is both protective to human health and the environment. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

GR Allen

Field Unit One, Field Project Leader
Environmental Restoration Project
Los Alamos National Laboratory

22 April 96

Date Signed