U.S. Department of Energy
Albuquerque Operations Office
Kirtland Area Office
P.O. Box 5400
Albuquerque, NM 87185-5400

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Mr. Benito Garcia, Bureau Chief
New Mexico Environment Department
Hazardous and Radioactive Materials Bureau
2044 Galisteo Street
P.O. Box 26110
Santa Fe, NM 87505-2100

Dear Mr. Garcia:

Enclosed is the Department of Energy/Sandia National Laboratories/New Mexico response to the New Mexico Environment Department's October 30, 1998, Notice of Deficiency regarding the Mixed Waste Landfill RCRA Facility Investigation Report.

If you have any questions, please contact John Gould at (505) 845-6089.

Sincerely,

George K. Lasher

for Michael J. Zamorski
Area Manager

Enclosure

B. Garcia (2)

cc w/enclosure:
D. Bourne, AL, ERD
J. Parker, NMED-OB
R. Kennett, NMED-OB
D. Neleigh, EPA, Region 6

cc w/o enclosure:
B. Oms, KAO-AIP
D. Fate, SNL, MS 1132
F. Nimick, SNL, MS 1147
J. Peace, SNL, MS 1148
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S. Kruse, NMED-HRMB
W. Moats, NMED-HRMB

Sandia National Laboratories
Albuquerque, New Mexico
January 28, 1999

Environmental Restoration Project
DOE/SNL/NM Responses to NMED October 30, 1998, NOD for "Report of the Mixed Waste Landfill Phase 2 RCRA Facility Investigation, Sandia National Laboratories, Albuquerque, New Mexico"

INTRODUCTION

This document responds to comments received from the NMED to the DOE documenting the review of SNL/NM response to the HRMB's September 11, 1997, Letter of Denial for Report of the MWL Phase 2 RCRA Facility Investigation, Sandia National Laboratories, Albuquerque, New Mexico.

This response document is organized in numerical order by NMED response in bold. The DOE/SNL/NM response appears in normal font under "Response." Attachments for NMED responses are provided where applicable.

Enclosure A
Responses

Enclosure A
Notice of Deficiency

Department of Energy (DOE)/Sandia National Laboratories (SNL)
Responses (June 15, 1988) to Hazardous and Radioactive Materials Bureau's (HRMB's) Letter of Denial (September 11, 1997) for

Report of the Mixed Waste Landfill Phase 2 RCRA Facility Investigation, Sandia National Laboratories,
Albuquerque, New Mexico

Deficiencies

1. Response 8 -- The table must be revised to show the detection limits for the values listed as non-detects. The detection limits must be provided to evaluate whether they met data quality objectives.

HRMB suggests that DOE/SNL contact Radian Corporation, which conducted the field study, to obtain the detection limits for uranium, Pu-238, and Pu-239/240.

Response: Radian Corporation was contacted regarding detection limits for the values listed in Table 4.2-1 (namely, uranium, Pu-238, and Pu-239/240). The detection limits (DL) for uranium is 2.4×10^{-4} micrograms (μg) per cubic meter (m^3); and for Pu-238 and Pu-239/240, the DL is 1×10^{-5} picocuries (pCi)/m^3. Attachment 1 presents revised Table 4.2-1.

2. Response 23 -- The cross-sections indicate:

A. There has been a release of cadmium along the west side of the landfill. Cadmium concentrations range from about 1.02 - 1.97 mg/kg in soil samples collected at depths varying from 10 ft to greater than 100 ft.

B. There has been a release of cobalt along the southeast corner of the landfill (Borehole BH-13). In this area, cobalt concentrations range from about 5.83 - 9.62 mg/kg in soil samples collected at depths varying from 10 ft to greater than 100 ft.

C. There is evidence of possible copper contamination at concentrations ranging from 18.7 - 70 mg/kg in soil samples collected at depths of about 40 - 150 ft (Boreholes SB-4, SB-5, and BH-3).

D. There is evidence of possible nickel contamination at concentrations ranging from 11.8 - 21.5 mg/kg in soil samples collected at depths of about 70 - 100 ft (Boreholes SB-5 and BH-3).

E. There is a "hot spot" of contamination at a depth of 50 ft, Borehole 3 (BH-3). Contaminants are Ag (1.46 mg/kg), Cd (1.44 mg/kg), Co (105 mg/kg), Cu (645 mg/kg), Ni (97.5 mg/kg), and Zn (413 mg/kg).

The presence of metal contaminants at depths which can exceed 100 ft indicate that liquid wastes were disposed of in the landfill. Thus, ground-water monitoring for metals is required.

Response: U.S. Department of Energy (DOE)/ Sandia National Laboratories/New Mexico (SNL/NM) will continue to monitor groundwater at the mixed waste landfill (MWL) for metals. The cobalt concentrations shown on cross sections A-A′ and H-H′ for BH-13 are incorrect. Erroneous cobalt concentrations were inadvertently recorded on the cross sections. The cobalt concentrations provided in Appendix D of the MWL Phase 2 Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) report are correct. Cross sections A-A′ and H-H′, showing cobalt concentrations with depth in BH-13, have been revised to reflect the correct cobalt concentrations. The revised cobalt concentrations presented in revised cross sections A-A′ and H-H′ are all below the DOE Oversight Bureau suggested maximum background value for cobalt (5.2 mg/kilogram). Attachment 2 presents revised cross sections A-A′ and H-H′.

3. Response 37 -- The water-table map indicates that there is only one downgradient monitor well at the Mixed Waste Landfill. Normally, a minimum of three downgradient wells is required for an adequate detection monitoring system.

After the two new wells are installed, and the water-table map is revised, the HRMB will reevaluate the adequacy of the detection monitoring system. HRMB requests a meeting with DOE/SNL technical and management staff to discuss the location and design of the two new wells.

Response: The MWL technical staff is prepared to meet with the New Mexico Environment Department (NMED) Hazardous and Radioactive Materials Bureau (HRMB) staff to discuss the location and design of the two new wells. DOE/SNL/NM management has agreed to schedule this meeting with HRMB and will notify the MWL technical staff when the meeting is arranged.

4. Response 41 -- Please explain the method of Fogg and Senger (1985).

Response: The method of Fogg and Senger (1985) is discussed in their paper, "Automatic Generation of Flow Nets with Conventional Groundwater Modeling Algorithms," published in Groundwater Journal in 1985 (see Attachment 4).

5. Response 46 -- The MWL inventory is not complete. Data derived from soil sampling beneath the landfill indicate that nickel is a possible contaminant at the MWL (see comment 2).

DOE/SNL must support their position on a technical basis that the elevated nickel levels detected in ground-water samples from monitor well MWL-MW1 (and MWL-MW3) are a result of the corrosion of 304 stainless-steel well screen; otherwise, such elevated levels of nickel will be attributed to a release of contaminants from the landfill.

DOE/SNL has argued a similar position with respect to elevated concentrations of chromium and nickel in ground-water samples from wells at the Chemical Waste Landfill (CWL). DOE/SNL claim that the corrosion of certain CWL monitor wells has been caused by a relatively high concentration of chloride (about 100-130 mg/L) and a relatively high pH condition in the ground water (about a pH of 10 for 45 days prior to well development). However, DOE/SNL have not provided technically defensible data demonstrating that MWL monitor wells have been subjected to similar chemical/physical conditions as those at the CWL. Additionally, DOE/SNL have not provided data that the chemical/physical conditions of CWL ground water will cause corrosion of 304 stainless-steel screen.

Response: Although nickel is a possible contaminant at the MWL, DOE/SNL/NM believes it is unlikely that nickel has migrated from disposal cells at the MWL through the 500-foot-thick vadose zone. However, DOE/SNL/NM plans to continue monitoring nickel and other RCRA metals in groundwater at the MWL as part of their long-term monitoring program at the landfill.

During a January 1999 meeting with the NMED, SNL/NM and the HRMB agreed to have a follow-up resolution meeting where all the relevant data on the elevated chromium and nickel levels in groundwater at the Chemical Waste Landfill are presented. The objective of this meeting will be to determine once and for all whether elevated levels in groundwater are from corrosion of stainless steel casing or from contaminant migration to groundwater.

6. Response 47 -- The requested uranium data were not provided in the revised Appendix K.

Response: The requested uranium data were inadvertently excluded from revised Appendix K in the June 15, 1998, MWL Notice of Deficiency response document. Attachment 6 of this document presents all of the uranium data collected to date from monitoring wells at the MWL.

7. Response 53 -- See comment 3 above.

Response: DOE/SNL/NM intends to install two new monitoring wells at the MWL. These wells were requested by the NMED in early 1998. Although DOE/SNL/NM and the HRMB have agreed on the general location of the wells, the MWL technical staff is prepared to meet with the HRMB staff to discuss and finalize the locations and design of the two new wells. DOE/SNL/NM management has agreed to schedule this meeting and will notify the MWL technical staff when this meeting has been arranged.

8. Response 60 -- Please provide references and the actual values for the vapor pressure of tritiated and nontritiated water.

Consider also that soil samples from BH's 7, 9, 10, and 12 have elevated tritium activities that clearly demonstrate that tritium is capable of migrating to depths below the bottoms of the trenches (or pits). What is the mechanism of transport of this tritium?

Response: The vapor pressure of most liquids decrease with increasing specific gravity (Prudic et al. 1997; Ferronsky and Polyakov 1982; Lide 1998). This leads to lower rates of vaporization and higher boiling points.

Vapor pressure, in general, increases with increasing temperature (Lide 1998). Fractionation causes water vapor in equilibrium with liquid water to be more depleted in the heavy isotopic species because of the lower vapor pressure of the heavier species (Prudic et al. 1997; Ferronsky and Polyakov 1982).

Deuterium (HDO), which is similar to tritium, has a water (H_2O)/HDO partial pressure ratio of 1.07 at 20 degrees Celsius (Kirshenbaum 1951). That is, the partial pressure of HDO (approximately 16.4 millimeters [mm] mercury [Hg]) is about 6 percent less than the vapor pressure for water (17.54 mm Hg) at the same temperature and pressure.

MWL technical staff was unable to locate a specific vapor pressure value for tritium or tritiated water (HTO). However, it is anticipated that tritium's vapor pressure is somewhat lower than that of deuterium.

In a vadose zone or groundwater system, tritium would exist in the form of HTO, mixed with H_2O. This mixture will depress the water vapor pressure. However, the degree of depression will be less than the pure HTO liquid value. To calculate the vapor pressure of the mixture, Raoult's Law can be used. Raoult's Law states that the partial pressure of a constituent is the product of the pure phase vapor pressure and its mole fraction. The total vapor pressure of the mixture is then the sum of the partial pressures of the constituents.

For typical vadose zone and groundwater conditions (i.e., dilute tritium concentrations), we would anticipate that the vapor pressure is only slightly less than that for pure water.

The MWL technical staff offers that the primary means of tritium transport in the vadose zone at the MWL is by diffusion in the vapor phase, dependent of course, on seasonal temperature and moisture variations.

References:

Ferronsky, V.I. and V.A. Polyakov, 1982, *Environmental Isotopes in the Hydrosphere*, John Wiley and Sons, New York.

Kirshenbaum, I., 1951, *Physical Properties and Analysis of Heavy Water*, McGraw-Hill Book Company, New York.

Lide, D.R., 1998, *CRC Handbook of Chemistry and Physics*, CRC Press, New York.

Prudic, D.E., D.A. Stonestrom, and R.G. Striedgl, 1997, "Tritium, Deuterium, and Oxygen-18 in Water Collected from Unsaturated Sediments Near a Low-Level Radioactive Waste Burial Site South of Beatty, Nevada," *USGS Report* 97-4062.

U.S. Department of Energy, September 1988. "Radioactive Waste Management," DOE Order 5820.2A, Washington, D.C.

U.S. Environmental Protection Agency, February 1997, "Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities," 40 CFR 264, amended in 45 FR 33221, May 19, 1980–62 FR 6622, February 12, 1997, U.S. Environmental Protection Agency, Washington, D.C.

8. Response 60 (Continued). Cross-sections show that elevated tritium activities occur at depths which exceed 100 ft. Thus, ground-water monitoring for tritium is required.

Response: Tritium activities recorded in Appendix E of the MWL Phase 2 RFI report are off by two orders of magnitude. In converting pCi/liter to pCi/gram (g), the final values presented in Appendix E should have been divided by 100. The final values were divided by the moisture content (i.e., 5.2), but were not divided by the percent moisture content (i.e., 0.052). Therefore, all tritium activities were in error by two orders of magnitude. Appendix E, Tables 4.6-7 and 4.6-8 and Figures 4.6-2 and 4.6-3 have been revised to reflect the correct tritium activities. In addition, Section 4.6.4.6 (page 4-106) of the MWL Phase 2 RFI report discussing the borehole tritium sampling results has been revised.

Revised tritium activities range from 0.001 pCi/g to 206.7 pCi/g (revised Table 4.6-7). All but five tritium activities detected during borehole drilling were less than 2.09 pCi/g. Of the five tritium activities greater than 2.09 pCi/g, four of those activities were detected in BH-12 (5.073 pCi/g at 43 feet [ft], 4.723 pCi/g in the 43 ft duplicate sample, 206.7 pCi/g at 26 ft, and 29.48 pCi/g at 9 ft). The remaining sample where tritium was detected at greater than 2.09 pCi/g was in BH-10 at 26 ft (13.54 pCi/g) (Table 4.6-8). Attachment 8 presents the revised tables, figures, and text.

Surface soil tritium activities (presented in Section 4.4 of the MWL Phase 2 RFI report) and local background tritium activities determined for the MWL (presented in Sections 3.4 and 4.6.4.6 of the Phase 2 RFI report) were not affected by this conversion error.

DOE/SNL/NM will continue to monitor groundwater at the MWL for tritium.

9. Response 62 -- The following comments concern the MWL risk assessment.

A. Risk assessment performed for the MWL evaluates an industrial worker exposure scenario to determine current and future risk from the MWL. No human intrusion scenarios are included in this risk evaluation. The MWL land use restriction to an industrial exposure scenario is obviously representative of and applicable to the current land use designation. However, this situation requires assurance that an industrial land

use designation will be maintained in the future. Therefore, DOE/SNL must provide NMED/HRMB with a method or mechanism to assure that DOE/SNL have the ability and systems in place to make controls of the land restriction effective.

In addition, the controls have to be appropriate for the hazard involved. Therefore, DOE/SNL has to document an auditable program of monitoring the controls for effectiveness and reporting their implementation.

Response: DOE Order 5820.2A and federal regulation 40 CFR 264 call for a variety of institutional controls on radioactive and hazardous waste disposal sites.

DOE/SNL/NM agree that the types of controls required at a particular site depend on the hazards posed by the waste disposed of at the site. Consistent with our ongoing obligation under the regulations and the Hazardous and Solid Waste Amendments permit, we would envision that institutional controls at the MWL would include such measures as:

Signage/posting: posting with appropriate warning signs and emergency contact numbers on all fences and roads leading to the landfill.

Fencing: DOE regulation fencing.

Buffer zone: a single-track dirt road for monitoring and surveillance around the landfill similar to the current dirt road around the landfill.

Environmental Monitoring and Surveillance: regular (to be determined) surveillance to ensure the physical integrity of fences, occurrence of trespass (intentional or inadvertent), and any other suspicious activity. Environmental monitoring consists of inspections for erosion, subsidence, and condition of vegetation; vadose zone monitoring for moisture content; and groundwater monitoring for contaminant detection.

Deed restrictions: deed restrictions for intrusion/excavation/drilling recorded in official local and state records.

DOE/SNL/NM welcomes the opportunity to meet with NMED to discuss and agree upon any specific institutional controls that address the conditions that exist at the MWL.

B. Because land located approximately 1 mile west of the MWL could be developed for residential use, DOE/SNL must evaluate the potential for off-site contaminant migration from the landfill. The evaluation should consider ecological and human health impacts from any potential migration of COC's.

Response: See Attachment 9.

C. The nature and extent of subsurface contamination indicate that some contaminants are a potential threat to ground-water quality beneath and downgradient (west) of the MWL.

A simple screening comparison of contaminant concentrations in subsurface soils against *available* EPA soil screening levels (SSL's) developed for the protection of ground-water resources demonstrates exceedances for cadmium and nickel (U. S. EPA, 1996, *Soil Screening Guidance: Technical Background Document*, EPA/540/R-95/128, Office of Emergency and Remedial Response, Washington, DC, PB96-963502). Therefore, the risk assessment for the MWL must evaluate potential impacts of cadmium, nickel, and other contaminants (metals such as cobalt and copper, and radioactive materials such as uranium and tritium, for which SSL's are not available at this time) on local and regional ground-water quality.

Response: See Attachment 9.

D. Section 7.2, *MWL Exposure Routes*, page 7-1, last paragraph states that radionuclides evaluation includes ingestion in drinking water, ingestion in soil, external gamma radiation, and inhalation of soil-derived particulates and vapor-phase radon and tritium. However, evaluation of external gamma radiation exposure and exposure to radon gas is not documented in the subject report. Please provide the rationale for excluding this information from the report or, more preferably, provide data on the possible radon and external gamma radiation exposures to potentially impacted organisms.

Response: See Attachment 9. Potential external exposure to gamma radiation and vapor phase radon was not presented in the subject report because external gamma radiation and vapor phase radon has not been detected at the MWL. Attachment 9D presents recent environmental surveys for radon at the MWL.

E. Section 7.3, *Risk Assessment Analysis*, pages 7-2 through 7-8 implies that metal concentrations were measured in surface-soil samples. However, no surface-soil sampling and analysis data could be located in the subject report. Thus, DOE/SNL shall present all surface-soil sampling results and data, including soil sampling locations, depth, types of laboratory analyses used, detection limits, and quality assurance/quality control measures employed.

Response: In March 1996, 25 surface soil samples were collected at the MWL and analyzed for volatile organic compounds, semivolatile organic compounds, target analyte list metals, and gamma spectroscopy. Attachment 9E presents and discusses the results of the sampling.

F. Tables 7.3-1 and 7.3-4 (pages 7-3 and 7-7, respectively) report maximum concentration of hexavalent chromium only. Results for both total and hexavalent chromium (if measured) shall be reported. In addition, background comparisons shall be made between relevant (i.e., comparable) chromium species, i.e., chromium (VI) maximum soil concentrations shall be compared with chromium (VI) NMED/HRMB-approved soil background levels for the KAFB area (NMED/HRMB-approved background soil concentration is 1 mg/kg for chromium (VI) and it is not 17 mg/kg, as reported in Table 7.3-4).

Also, please verify that Table 7.3-4 (page 7-7) reports correct and comparable background soil concentrations for aluminum and manganese.

Response: See Attachment 9. Results for both chromium VI and total chromium are presented and modeled in the risk assessment for the MWL. Background comparisons are made only between comparable species (i.e., total chromium will be compared only to the background for total chromium) using the appropriate NMED/HRMB-approved background concentrations.

The background soil concentrations for aluminum and manganese reported in Table 7.3-4 have been verified as correct. Attachment 9F presents a copy of the reference table, cited for the origin of the values in question.

G. Due to the qualitative nature of soil-gas survey results (both passive and active), it is inappropriate to use them in a quantitative risk assessment. Please use analytical results of soil-matrix sampling in a quantitative risk analysis.

Response: All soil-matrix sample results have been included in the quantitative risk assessment for the MWL. All active soil gas sample results used in the first risk assessment have been excluded from use in this risk assessment. Passive soil gas data were not used in the initial MWL Phase 2 RFI report risk assessment nor were they included in the attached risk assessment.

H. Please clarify why cobalt, thallium, and vanadium RfD's are missing from Table 7.3-7 (page 7-10). Consequently, potential human health risks are not evaluated for these contaminants. In addition, Table 7.3-7 is missing a legend defining reported parameters and their sources.

Response: Cobalt, thallium, and vanadium reference doses (RfD) were not available when the initial MWL risk assessment was prepared. These values have since been added to the RfD list and included in the current risk assessment (see Attachment 9).

I. Appendix N, page N-8 discusses potential sources of PEF's used to estimate exposure from inhalation of fugitive dust; however, it does not document their values.

Response: See Attachment 9.

J. In addition to human health risk evaluation, this risk assessment shall also address ecological risks for the MWL.

Response: See Attachment 9.

10. Response 64 -- Explain what is meant by "an additional four sampling events will be conducted".

Response: The phrase "An additional four sampling events will be conducted" means that the two new MWL groundwater monitoring wells will be sampled either on a quarterly basis for 2 years or on a semiannual basis for 4 years. This will provide four sampling events at those wells.

11. Response 79 -- Approximately 1/2 of the information included in Attachment 80-1 (*Summaries of Laboratory and Field QC Results for MWL Groundwater Quality Data*) is labeled "draft". Draft information is unacceptable for the purpose of making final decisions. DOE/SNL must provide copies of final documents not labeled as draft for HRMB's review.

Response: The "draft" documents referred to in Attachment 80-1 (Summaries of Laboratory and Field QC Results for MWL Groundwater Quality Data) have been finalized and are provided in Attachment 11.

Attachment 1

Table 4.2-1 PM_{10} Sampling Results (Revised)

Species	Average Concentration	Maximum Concentration	Minimum Concentration
MWL East Side PM_{10}			
PM_{10}	9.5	18.4	3
Beryllium[a]	ND	ND	ND
Uranium[b]	8.0×10^{-4}	1.4×10^{-3}	2.6×10^{-4}
Plutonium-239/240[c]	NA	$2.7 \times 10^{-4} \pm 1.9 \times 10^{-4}$	ND
Plutonium-238[c]	NA	$4.6 \times 10^{-4} \pm 2.7 \times 10^{-4}$	ND
MWL West Side PM_{10}			
PM_{10}	10.5	68.5	0.9
Beryllium[a]	ND	ND	ND
Uranium[b]	6.9×10^{-4}	1.3×10^{-3}	2.4×10^{-4}
Plutonium-239/240[c]	NA	$2.5 \times 10^{-4} \pm 2.0 \times 10^{-4}$	ND
Plutonium-238[c]	NA	$1.9 \times 10^{-3} \pm 5.7 \times 10^{-5}$	ND
MWL Upwind PM_{10}			
PM_{10}	9.0	19.4	3
Beryllium[a]	ND	ND	ND
Uranium[b]	1.0×10^{-3}	1.4×10^{-3}	2.4×10^{-4}
Plutonium-239/240[c]	NA	$2.2 \times 10^{-4} \pm 1.6 \times 10^{-4}$	ND
Plutonium-238[c]	NA	$1.2 \times 10^{-4} \pm 9.2 \times 10^{-5}$	ND

All concentrations in $\mu g/m^3$ except for Plutonium which is pCi/m^3.
(a) Detection limit for beryllium is 0.002 $\mu g/m^3$.
(b) Detection limit for uranium is 2.4×10^{-4} $\mu g/m^3$.
(c) Detection limit for Pu-238 and Pu-239/240 is 1×10^{-5} pCi/m^3.
ND Not Detected
NA Not Applicable

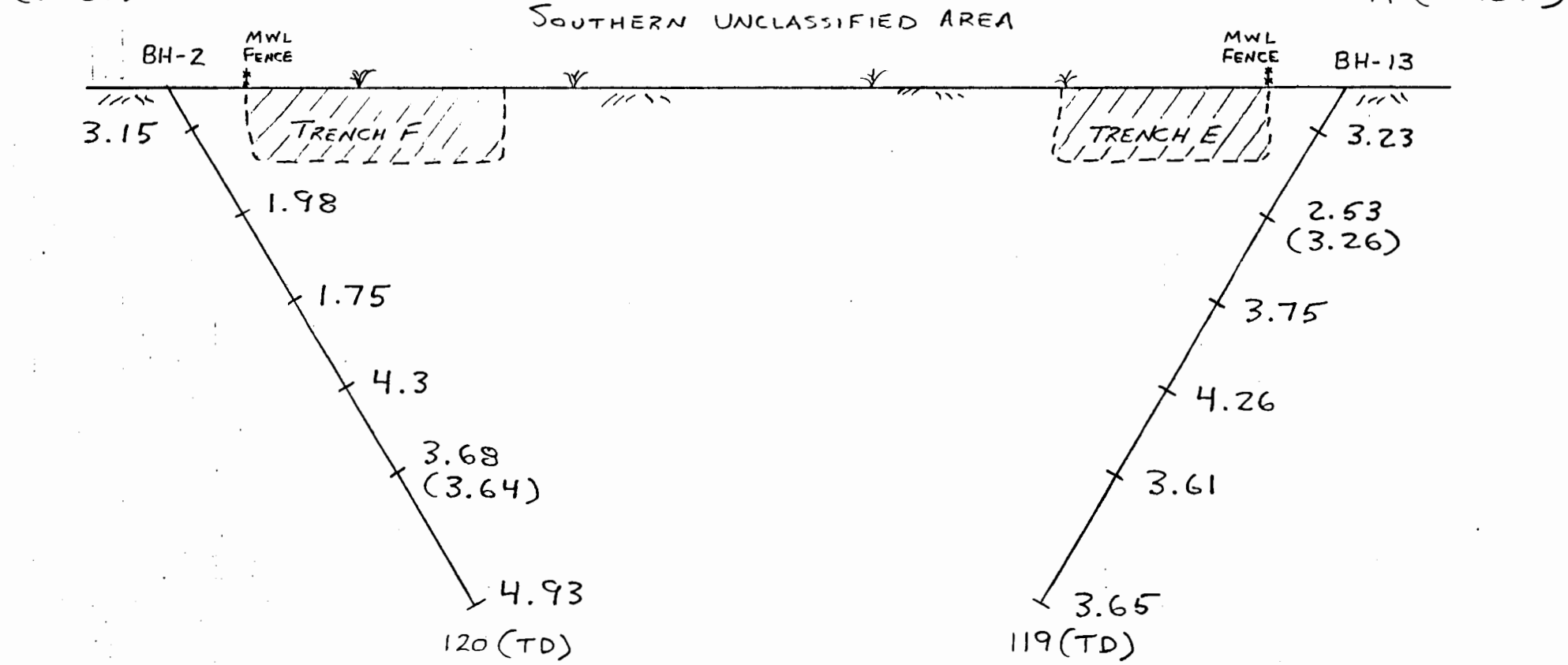
Attachment 2

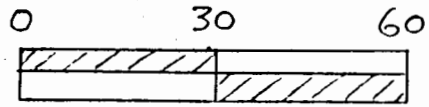
*Revised

COBALT (Co) - mg/kg

AMPAD 22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

EAST-WEST CROSS-SECTION A-A'





1 inch = 30 feet
(horizontal and vertical)

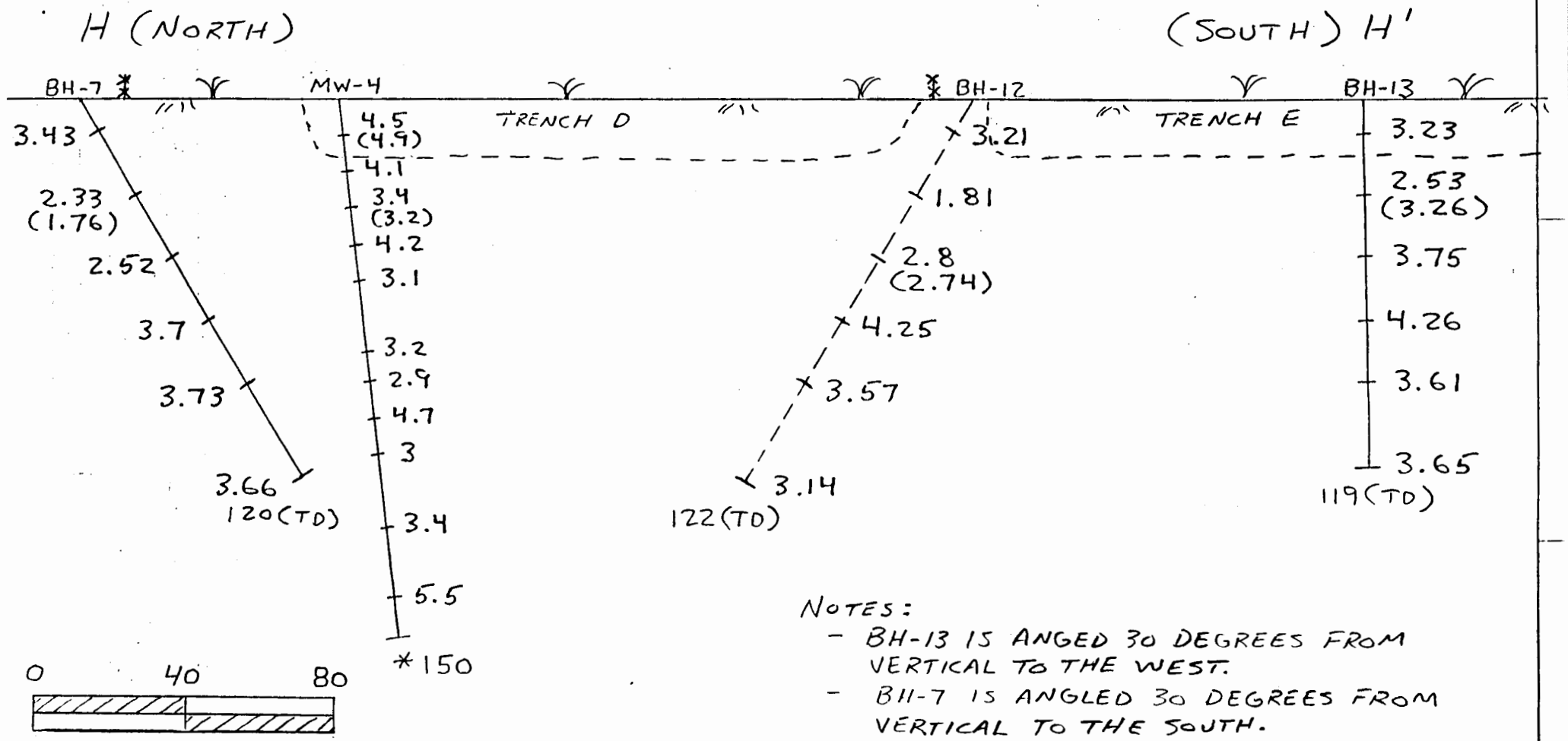
NOTES:
- BOREHOLE BH-2 IS ANGLED 30 DEGREES FROM VERTICAL TO THE EAST.
- BOREHOLE BH-13 IS ANGLED 30 DEGREES FROM VERTICAL TO THE WEST.

* Revised

COBALT (Co) - mg/kg

AMPAD 22-141 50 SHEETS 22-142 100 SHEETS 22-144 200 SHEETS

NORTH-SOUTH CROSS-SECTION H-H'



NOTES:

- BH-13 IS ANGED 30 DEGREES FROM VERTICAL TO THE WEST.
- BH-7 IS ANGLED 30 DEGREES FROM VERTICAL TO THE SOUTH.
- MW-4 IS ANGLED 6 DEGREES FROM VERTICAL TO THE SOUTH.
- BH-12 IS ANGLED 30 DEGREES FROM VERTICAL TO THE NORTH.

* ONLY 150 FEET OF MW-4 IS SHOWN; TOTAL DEPTH IS 546 FEET.

Attachment 4

Automatic Generation of Flow Nets with Conventional Ground-Water Modeling Algorithms[a]

by Graham E. Fogg and R. K. Senger[b]

ABSTRACT

Though flow nets offer one of the best means of visualizing ground-water flow fields, accurate construction of flow nets can be very difficult in heterogeneous, anisotropic media or in regional cross sections where vertical exaggeration of scale is great. A method was developed for automatically generating the streamlines of a flow net using conventional ground-water flow modeling algorithms. The method can be implemented using most any of the existing computer programs for flow modeling, and no modification of the programs is necessary. One need only replace the hydraulic head and conductivity terms in the steady-state ground-water flow equation with the stream function and an inverse form of hydraulic conductivity, respectively. Possible boundary conditions include prescribed stream function (Dirichlet type) and prescribed stream function gradient (Neumann type). The former can be determined from prior knowledge of recharge or discharge rates or from boundary fluxes computed in previous simulations of hydraulic head distribution. The latter can be determined from data on hydraulic head along the boundaries, raising the possibility of solving for the streamlines directly without first solving for the head distribution. The method is generally not appropriate when sources or sinks occur inside the flow region, and it will not handle transient conditions. Accuracy of the method is demonstrated in three hypothetical test problems and a vertical-plane model through the Palo Duro Basin of Texas and New Mexico.

[a]Publication authorized by the Director, Bureau of Economic Geology, The University of Texas at Austin. (This paper was modified from an earlier version published in the Proceedings of the National Water Well Association Conference on Practical Applications of Ground-Water Models, August 15-17, 1984.)

[b]Bureau of Economic Geology, The University of Texas at Austin, University Station, Box X, Austin, Texas 78713-7508.

Received August 1984, revised October 1984, accepted November 1984.

Discussion open until November 1, 1985.

INTRODUCTION

The flow net is still one of the most effective tools for illustrating ground-water flow rates and directions. Construction of accurate flow nets, however, can be very difficult in heterogeneous, anisotropic media or in regional cross sections with vertical exaggeration of scale; and consequently, flow nets are not frequently used in practice. In this paper we present theory and applications for generating the streamlines of a flow net in the absence of internal sources or sinks using existing ground-water flow modeling computer codes. We will also introduce boundary conditions that can be used to compute the streamlines based solely on hydraulic head along the boundaries and distribution of hydraulic conductivity.

PREVIOUS WORK

Some analytical solutions for computing both equipotentials and streamlines of a flow net have been presented in the literature (e.g., Kirkham, 1957 and 1960; Polubarinova-Kochina, 1962), but these are limited to relatively simple flow systems and thus are not widely applicable. Methods based on numerical models have been proposed by Charbeneau and Street (1979) and Christian (1980). Charbeneau and Street generate individual streamlines in heterogeneous, anisotropic media with sources or sinks by integrating the equation for a streamline [equation (1)] starting at a specified point in the flow region. The chief advantage of their method is its ability to handle sources and sinks and transient conditions. Unlike the method of this paper, however, it will not produce automatically a flow net having equal flow in each streamtube and it cannot be implemented with unmodified flow modeling computer programs.

Christian (1980) described a finite-element method for generating flow nets that appears essentially equivalent to the method presented here. However, he did not derive or show the partial differential equation used to solve for the streamlines, and he seems to imply that his method can only be implemented via a particular finite-element formulation. Moreover, he did not show how to impose boundary conditions. We will provide a complete theory for both governing equation and boundary conditions and show that the method can be applied with any existing two-dimensional finite-element or finite-difference algorithm.

THEORY

Governing Equations

The governing equation that will be used to compute streamlines is based on the concept of a stream function (Ψ), defined as a function which is constant in value along a streamline and is related to the specific discharge ($\underline{q}$) through equations (1) (Vennard, 1961; Bear, 1972, 1979):

$$q_x = -\frac{\partial \Psi}{\partial y} \quad \text{and} \quad q_y = \frac{\partial \Psi}{\partial x} \tag{1}$$

In other words, the stream function represents a series of numbers distributed in two-dimensional space which can be contoured to give streamlines (Figure 1). The gradient of the stream function ($\nabla \Psi$) equals the specific discharge ($\underline{q}$), and the difference in value of two stream functions gives the flow rate (Q, L^3/T) through the corresponding streamtube. If Ψ can be evaluated for a given flow field, simple contouring of both head and Ψ yields a very accurate flow net. Below, we derive a partial differential equation that can be solved numerically for Ψ in a variety of flow problems.

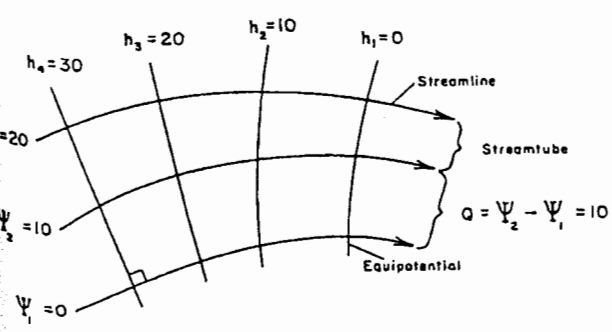


Fig. 1. Example of a flow net consisting of two sets of contours representing hydraulic head (h) and the stream function (Ψ). If the stream function contour interval is constant, the flow rate (Q, L^3/T) is equal in each streamtube.

Following Bear (1972), for steady two-dimensional flow of a constant-density fluid in a heterogeneous, anisotropic medium the "curl" of the hydraulic gradient ($-\nabla h$) is zero:

$$\text{curl}\,(-\nabla h) = \text{curl}\ \underline{q}/\underline{\underline{K}} = \frac{\partial}{\partial x}\frac{q_y}{K_y} - \frac{\partial}{\partial y}\frac{q_x}{K_x} = 0 \tag{2}$$

where K is the hydraulic conductivity tensor, and K_x and K_y are the principal hydraulic conductivities. "Curl" is a mathematical operator that gives a measure of the degree of rotation in a vector field. In ground-water flow of the type described above, there is no rotation of the driving force ($-\nabla h$), and hence curl ($-\nabla h$) = 0. [In mathematical terms, the curl of the gradient of any twice continuously differentiable scalar function such as h is zero (Kreyzig, 1972)].

Now by inserting equations (1) into (2), we get the governing equation:

$$\frac{\partial}{\partial x}\left(\frac{1}{K_y}\frac{\partial \Psi}{\partial x}\right) + \frac{\partial}{\partial y}\left(\frac{1}{K_x}\frac{\partial \Psi}{\partial y}\right) = 0 \tag{3}$$

Importantly, equation (3) is of the same form as the steady-state ground-water flow equation solved in ground-water models:

$$\frac{\partial}{\partial x}\left(K_x\frac{\partial h}{\partial x}\right) + \frac{\partial}{\partial y}\left(K_y\frac{\partial h}{\partial y}\right) = 0 \tag{4}$$

where h is hydraulic head. Thus, both equations (3) and (4) can be solved using the exact same numerical modeling codes. For example, to solve equation (3) using a conventional modeling code, one need only input $1/K_y$ and $1/K_x$ in place of K_x and K_y, treat the hydraulic head term as Ψ, and apply the appropriate boundary conditions. In horizontal plane models the K terms are replaced by transmissivity (T) terms.

Boundary Conditions

Boundary conditions are needed to define h and Ψ or their gradients on the boundaries of the flow region. Boundary conditions for the head solution [equation (4)] are typically either prescribed head (Dirichlet type) or prescribed flux (Neumann type). Similarly, one may specify in the stream function (Ψ) solution [equation (3)] either Dirichlet or Neumann types, respectively:

$$\Psi(x, y) = C \quad \text{on } \Gamma_1 \tag{5}$$

or

$$\nabla \Psi \cdot \underline{n} \equiv \frac{\partial \Psi}{\partial n} \quad \text{on } \Gamma_2 \tag{6}$$

where $\underline{n}$ is a unit normal to the boundary defined by Γ, and C is a constant. Data for prescribed Ψ

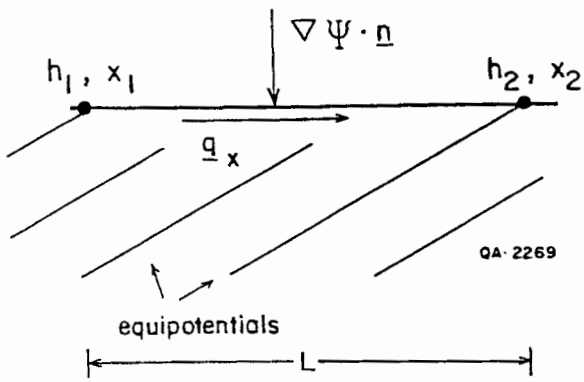


Fig. 2. Application of the Neumann boundary condition in terms of the stream function (Ψ) where n is a unit normal to the boundary and h_1 and h_2 represent hydraulic head at points x_1 and x_2, respectively.

(Dirichlet) conditions must be obtained from boundary fluxes that are either known from field data or computed via the hydraulic head solution [equation (4)]. However, an easier course is generally to use the Neumann boundary condition which can be determined solely from data on hydraulic head differentials along the boundary. Explanation of how and why this useful boundary condition works is given below.

Consider the boundary in Figure 2 with a component of ground-water flow (q_x) parallel to the boundary. Then there exists a non-zero stream function gradient, $\partial\Psi/\partial n$, perpendicular to the boundary. From equations (1) and Darcy's law,

$$\underline{q}_x = \frac{\partial\Psi}{\partial n} = K_x \frac{\partial h}{\partial x} \tag{7}$$

and

$$\frac{1}{K_x}\frac{\partial\Psi}{\partial n} = \frac{\partial h}{\partial x} \tag{8}$$

Integrating along the boundary from x_1 to x_2

$$\int_{x_2}^{x_1} \frac{1}{K_x}\frac{\partial\Psi}{\partial n}\,dx = \int_{h_2}^{h_1} \frac{\partial h}{\partial x}\,dx = \int_{h_2}^{h_1} dh \tag{9}$$

$$\frac{1}{K_x}\frac{\partial\Psi}{\partial n}(x_1 - x_2) = h_1 - h_2 \tag{10}$$

or

$$\frac{1}{K_x}\nabla\Psi \cdot \underline{n}(L) = h_1 - h_2 = F \tag{11}$$

The left-hand side represents the source term, F, for the stream function solution and is directly analogous to the volumetric flow rate, Q, used to impose Neumann (prescribed flux) boundary conditions in the hydraulic head solution (note the similarity to Darcy's law). Thus, F can be conveniently determined from head differentials along the boundary and used to prescribe Neumann boundary conditions in the stream function solution [equation (3)]. The appropriate F value for a node is equal to the head differential occurring along the boundary segment represented by the node. If the head differential is zero, F = 0 and the Ψ contours will be perpendicular to the boundary just as head contours are perpendicular to a no-flow boundary. Note that for a given flow region the head differentials must all be measured in the same direction along the boundary (that is, clockwise or counterclockwise) to maintain consistent signs in the F values.

Now, turning again to the Dirichlet condition, the values of Ψ to be prescribed can be determined from the fact that change in Ψ parallel to the boundary is equal to the flow rate across the boundary:

$$d\Psi = \int_\Gamma \underline{q} \cdot dA \qquad \text{or} \qquad \Delta\Psi = \sum_i Q_i \tag{12}$$

where A is the cross-sectional area of flow. To calculate values of Ψ at nodal points on a boundary, one need only start at a known value of Ψ and cumulatively add values of Q_i along the boundary (Figure 3). Because the configuration of streamlines will depend only on ΔΨ, absolute values of Ψ are unimportant. Hence, to provide a starting point for the summation, a "known" value of Ψ = 0 can often be assigned arbitrarily to one of the no-flow boundaries, along which Ψ must be constant.

Besides requiring additional calculations, a disadvantage of the Dirichlet condition compared to the Neumann condition is that the flow rates are generally unknown and must be obtained from the head solution. In other words, if only Dirichlet conditions are being used, solution of equation (4) is typically a prerequisite to solution of equation (3); but with Neumann conditions, solution of

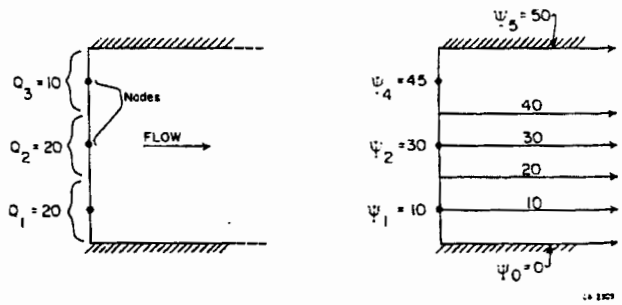


Fig. 3. Relationship between flow rates (Q) at nodes on a boundary and values of the stream function (Ψ).

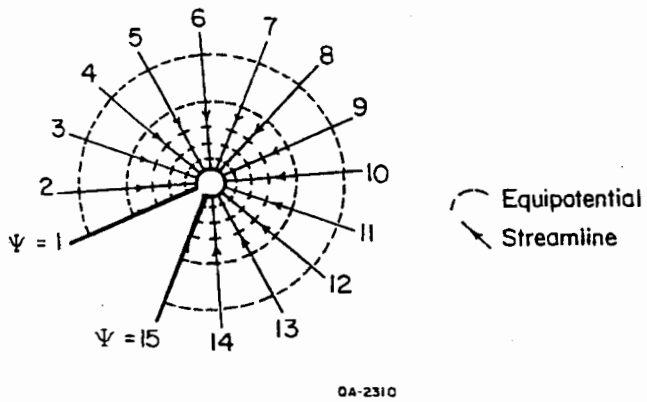


Fig. 4. Example of a point singularity at a discharging well. This creates a discontinuity in Ψ which can be removed from the flow region to solve equation (3).

equation (4) can be bypassed, solving directly for Ψ. This latter option may be an advantage in problems where only simulation of flow patterns and not heads is desired. Furthermore, if Dirichlet conditions are determined from the head solution, fluxes computed at nodes must be reapportioned to intervals between nodes (Figure 3). This can create significant discretization errors, especially where flow rates vary sharply as around local discharge points.

LIMITATIONS OF METHOD

Internal Sources or Sinks

A drawback of the method is that sources or sinks inside the modeled area generally cannot be handled. When sources or sinks exist inside the flow region, Ψ is no longer unique or continuous. To demonstrate, consider the streamlines to a discharging well in Figure 4. Obviously, one cannot number the streamlines consecutively without having a discontinuity between the highest and lowest values, in which case equation (3) no longer applies to the entire flow region. Equation (3) is not valid unless Ψ can be considered a potential function that is uniquely defined everywhere in the flow region and is continuous together with its first and second space derivatives.

The problem of point sources or sinks often can be circumvented by removing from the flow region the section where the discontinuity occurs as shown in Figure 4. Boundary conditions would then be applied to the new boundaries created by removal of the slice. However, when sources or sinks are applied to large areas of a finite-difference or finite-element mesh, as is often done to represent recharge and discharge in a horizontal-plane model, the concept of a stream function does not exist and the proposed method cannot be used. In effect, the recharge or discharge would cause the flow (Q) to vary along a streamtube, which violates the definition of a stream function. Thus, the proposed method is more applicable to cross-sectional models, in which internal sources and sinks are generally not used, than to horizontal-plane models.

Transient Modeling

Transient flow modeling of the stream function is not possible, because in transient flow Q is not necessarily constant along a streamtube. Thus, similar to the case of internal recharge or discharge, the definition of the stream function is violated. As an alternative, one may use the streamline-generating method of Charbeneau and Street (1979), which handles internal sources and sinks or transient conditions routinely; however, their method requires special software.

SUMMARY OF STEPS IN SOLVING FOR THE STREAM FUNCTION

1. Determine whether the stream function Ψ can be defined for the flow region of interest. If internal (i.e., inside the boundaries) recharge or discharge or transient conditions exist, Ψ generally cannot be defined, and the proposed method is inappropriate. One exception is the case of point sources and sinks, which under steady-state conditions can sometimes be handled in the manner discussed earlier (Figure 4).

2. Determine boundary conditions for the Ψ solution. Typically, the easiest course is to assign an arbitrary value of Ψ to the longest, continuous no-flow boundary via the Dirichlet (prescribed Ψ) boundary condition, and assign source or sink terms (F) to the remainder of the boundary nodes via the Neumann boundary condition. The values of F are merely the head differentials measured consistently in one direction (clockwise or counter-clockwise) for each node segment along the boundary. The F value can always be determined from either field data or model simulation of the head distribution.

3. Input $1/K_y$ or $1/T_y$ in place of K_x or T_x and input $1/K_x$ or $1/T_x$ in place of K_y or T_y. An arbitrary value can be assigned to the specific storage or storativity coefficient, since only the steady-state solution is pertinent.

4. Simulate the steady-state Ψ distribution, treating the head term as Ψ; and contour the results. If desired, calculate the travel times within

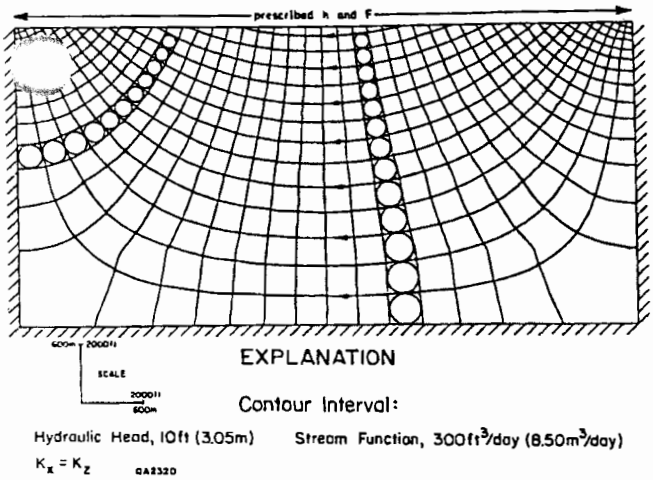


Fig. 5. Hypothetical example with linear topography and isotropic K. A Ψ value of zero was prescribed along the no-flow boundary at the bottom and sides. Values of F along the upper surface were determined from the corresponding head differentials. The tangent circles demonstrate good accuracy.

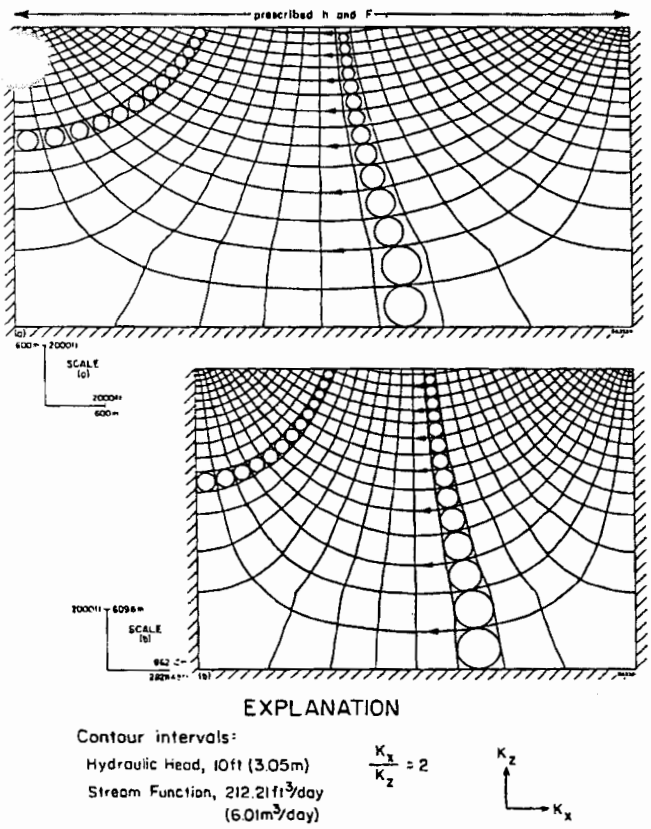


Fig. 6. Hypothetical example with linear topography and isotropic K ($K_x/K_z = 2$): (a) at true scale, and (b) at transformed scale for an equivalent isotropic domain. Theoretically, the Ψ contour interval of 212.21 ft³/day (6.01 m³/day) should give curvilinear squares in the transformed domain (b).

streamtubes by dividing the flow rate (Q) in a streamtube by the area of each tube as determined by planimetry or numerical integration.

HYPOTHETICAL EXAMPLES

Accuracy of the method is tested with three hypothetical cases depicting flow in a homogeneous, rectangular cross section with (1) linear topography and isotropic K (Figure 5), (2) linear topography and anisotropic K (Figure 6), and (3) hilly topography and isotropic K (Figure 7). The latter case is equivalent to Tóth's (1963) model of local, intermediate, and regional ground-water flow cells and illustrates performance of the method with complex boundary conditions.

Solution of equations (3) and (4) was accomplished with FREESURF I, a two-dimensional finite-element computer program designed to simulate steady-state ground-water flow with or without a free surface (Neuman and Witherspoon, 1970). This program was chosen because it is especially efficient for steady-state problems. The free surface option was not used. Contouring of equipotentials and streamlines was performed with a simple program that interpolates linearly within each triangular element. Hence, the contours shown represent precisely the simulated results.

In each case, boundary conditions for the Ψ solutions are Dirichlet (prescribed Ψ = 0) along the base and sides, and Neumann along the upper recharge and discharge boundary.

Accuracy of the computed streamlines is determined by plotting the stream function (Ψ)

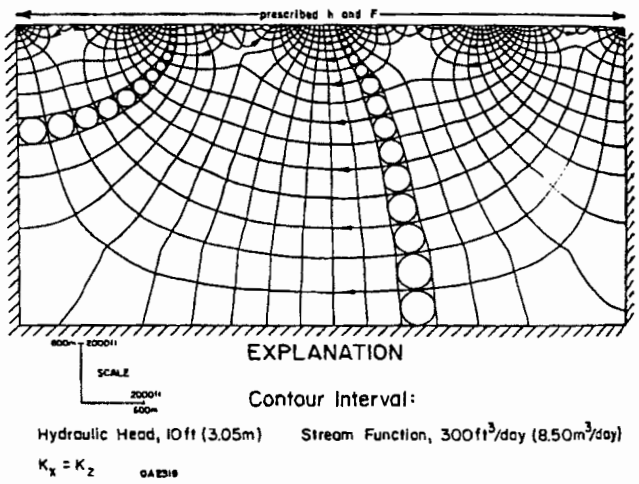


Fig. 7. Hypothetical example with hilly topography and isotropic K.

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with a contour interval calculated to give curvilinear-square flow net elements. Thus, with the exception of Figure 6(a) showing the anisotropic case at true scale, one should be able to draw a circle in each flow net element with all four sides of the element tangent to the circle; otherwise, the method is not working properly or numerical inaccuracies are occurring. For the isotropic cases, the proper Ψ contour interval is calculated from the hydraulic conductivity (K) and hydraulic head contour interval (Δh):

$$\Psi \text{ contour interval} = \Delta Q = K \Delta h \qquad (13)$$

based on Darcy's law. For the anisotropic case, the Ψ contour interval is chosen to give square elements in the equivalent isotropic domain that is created by reducing length of the flow region by the factor $\sqrt{K_z}/\sqrt{K_x}$ (Freeze and Cherry, 1979). The interval is obtained from the equation

$$\Delta Q = \sqrt{K_x \cdot K_z}\ \Delta h \qquad (14)$$

where $\sqrt{K_x \cdot K_z}$ is an equivalent hydraulic conductivity for the transformed domain.

In the isotropic cases, K and Δh are 30 ft/d (9.1 m/d) and 10 ft (3.0 m), respectively; hence, each streamtube carries 300 ft^3/d (91.4 m^3/d). Similarly, in the anisotropic case, K_x = 30 ft/d (9.1 m/d) and K_z = 15 ft/d (4.6 m/d), and each streamtube carries 212.21 ft^3/d (64.7 m^3/d).

The simulated flow nets in Figures 5, 6, and 7 demonstrate convincingly that the method produces accurate results. Two strings of circles are plotted on each flow net to show squareness of the elements. The circles are tangent in each case, except in Figure 6(a) where the anisotropic case is plotted in the untransformed domain.

Careful scrutiny of Figures 5, 6(b), and 7 will show small errors where the circles are not precisely tangent to all four sides. Such inaccuracies stem from numerical discretization and contour interpolation errors. Improved results could no doubt be achieved with finer node spacing, particularly in the lower half of the mesh where vertical spacing is relatively coarse. Interestingly, flow net simulation like that performed here may be an effective means of determining whether discretization errors are significant for various mesh designs.

Another way of checking the results is to compare values of total flow through the system calculated in both the Ψ and h solutions. This was done for the first two cases, which afford easy calculation of total Q by finding the difference between minimum and maximum values of Ψ in the flow regions. The comparison is very favorable, as shown in Table 1.

Table 1. Comparison of Total Flow Rates Computed by the Head and Stream Function Solutions for the Cases with Isotropic and Anisotropic K's in Figures 5 and 6

	— — *Total inflow* (m^3/d) — —		
	Head solution	*Stream function solution*	Δ%
Isotropic	1250.62	1244.54	−0.49
Anisotropic	950.30	937.27	−1.37

PALO DURO BASIN EXAMPLE

Hydrogeologic Setting

The Palo Duro Basin, located in the Texas Panhandle and New Mexico (Figure 8), is being studied for possible location of a high-level nuclear waste repository. A two-dimensional, cross-sectional flow model was constructed through the basin to better understand the system hydrogeology and, in particular, to test possible causes of abnormally low pressures occurring in the Deep-Basin Brine Aquifer (Senger and Fogg, 1983 and in preparation).

General hydrostratigraphy along the cross section modeled is shown with the finite-element mesh in Figure 8. Important components of the system include shallow fresh-water aquifers of the Ogallala and Dockum units beneath the High Plains, the underlying Permian evaporite aquitard containing bedded halite (the proposed repository host media), the Deep-Basin Brine Aquifer, and the Pecos River lying just west of the High Plains and serving as an important discharge area. The abnormally low pressures, or underpressuring, in the Deep-Basin Brine Aquifer results in hydraulic heads that are as much as 2300 ft (700 m) lower than the water table of the Ogallala. Repeated simulations with the model have demonstrated that chief causes of the underpressuring are the regional topography and geology. Specifically, the Ogallala water table is relatively high due to the elevation of the High Plains; the potentiometric surface of the Deep-Basin Brine Aquifer is relatively low due to the draining effect of permeable granite wash strata (Figure 8) and very low recharge rates; and the low-permeability evaporite aquitard effectively segregates the two aquifer systems, thereby maintaining the large head differential.

A major uncertainty in the model is hydraulic conductivity (K). Most of the K estimates are based on data from drill-stem pumping tests and

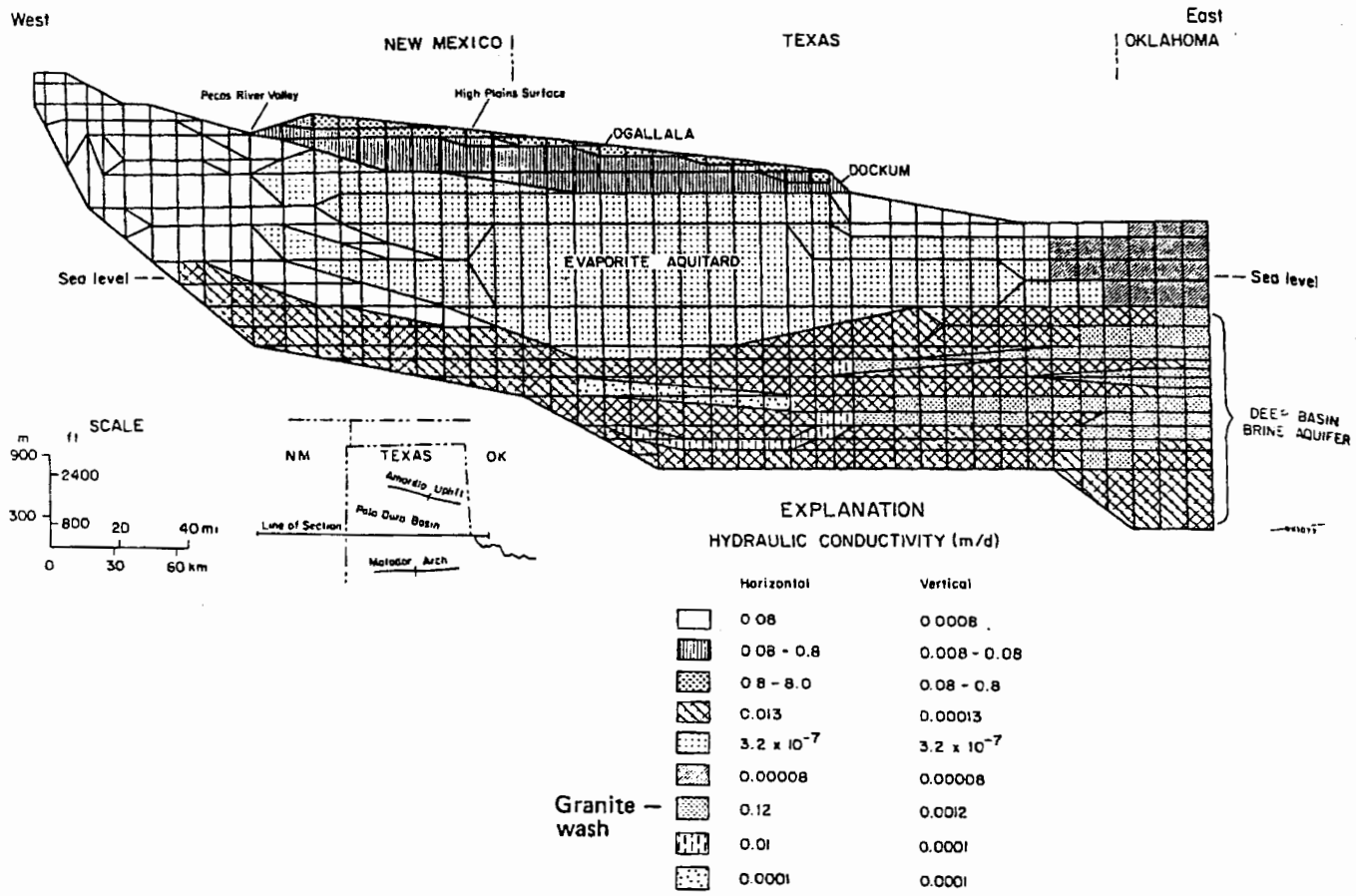

Fig. 8. Finite-element grid and general stratigraphy used in the Palo Duro Basin model. Vertical exaggeration of scale is 98.4.

core-permeameter tests, but in certain cases no data were available, and typical values for similar geologic materials had to be assumed from the literature.

It is important to note that vertical exaggeration of scale is 98.4 in Figure 8, and the ratio between horizontal and vertical node spacing averages about 2,400. Thus, at true scale the elements are extremely long and thin in the horizontal direction. This extreme directionality in the elements can theoretically cause substantial errors in the numerical solution; but such errors are

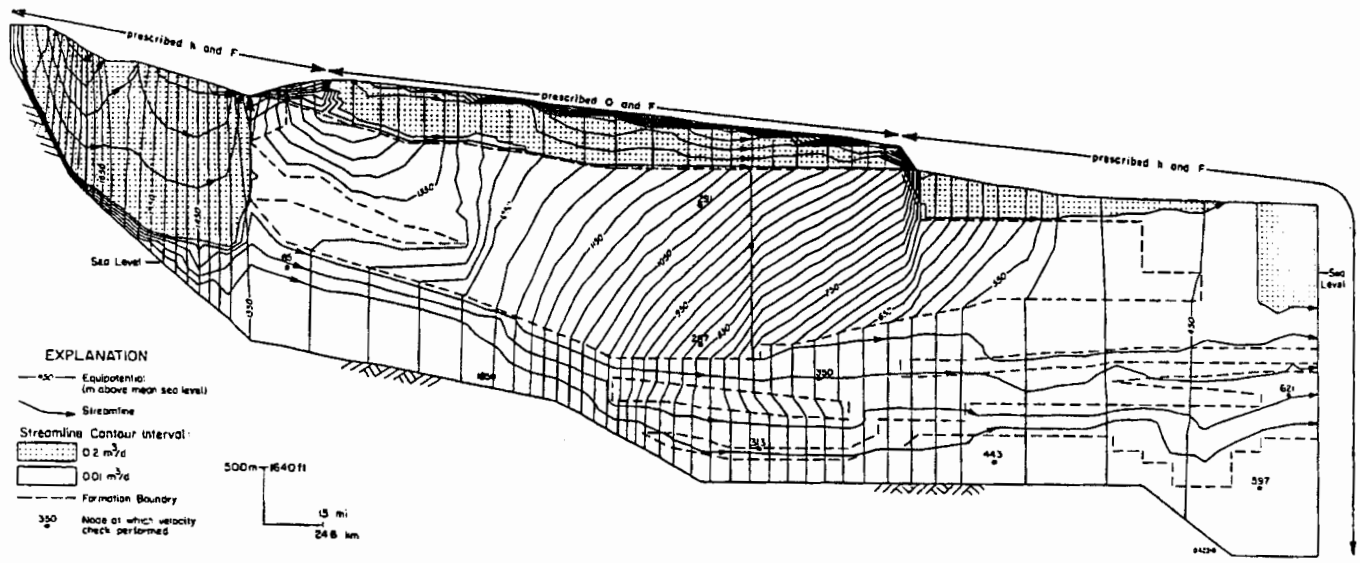

Fig. 9. Flow net simulated by the model. Two contour intervals for Ψ had to be used to depict both shallow and deep flow systems. The head data alone would give a distorted, misleading picture of the flow system.

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negligible in the present model as demonstrated by numerical experiments in Senger and Fogg (in preparation). As in the hypothetical examples, FREESURF I is the program used. Execution times on the University of Texas at Austin CDC Dual Cyber 170/750 System were 10.8 and 10.9 seconds for the head and streamline solutions, respectively.

Results

A simulated flow net for the Palo Duro Basin cross section is shown in Figure 9. Boundary conditions in the head solution are no-flow along the base, Neumann type (prescribed flux) along the Ogallala (High Plains) surface based on data from Knowles and others (1982), and Dirichlet type (prescribed head) elsewhere. Boundary conditions in the stream function solution are Dirichlet type along the base (prescribed $\Psi = 0$) and Neumann type along the top surface and eastern boundary. Values of F [equation (11)] for the Neumann condition were determined from the simulated hydraulic heads.

The wide range of flow rates in the system necessitated use of two different contour intervals for Ψ: 7.1 ft^3/d (0.2 m^3/d) in the relatively rapidly circulating shallow section (patterned area in Figure 9) and 0.35 ft^3/d (0.01 m^3/d) in the slowly circulating deep section. These two streamtube intervals nicely define shallow versus deep flow cells much the same as Tóth's (1963) model (Figure 9).

Clearly, analysis of the computed hydraulic heads alone would have yielded a misleading, oversimplified description of ground-water circulation. Furthermore, it would be impossible to construct the flow lines by hand because of the anisotropic K values and extreme vertical exaggeration of scale.

Note that of the several flow lines originating at the upper left corner of the model, only three make it into the Deep-Basin Brine Aquifer while the remainder discharge to the Pecos River valley. One streamline occurs through the evaporite aquitard, indicating some leakage; however, it is important to realize that widths of the streamtubes flanking this streamline are hundreds of miles, and corresponding ground-water velocities are therefore very small. The steep downward hydraulic gradients in the evaporite aquitard are caused largely by the draining effect of the granite wash deposits, as demonstrated by model simulations with lower K values for the Granite Wash (Senger and Fogg, in preparation).

Table 2. Comparison of Specific Discharge Values (q) Computed in the Head Solution [Equation (4)] and the Streamline Solution [Equation (3)]

	$q\ (m^3/d)$		
Node (s)	*Head solution*	*Streamline solution*	Δ%
287-291*	6.42×10^{-8}	6.68×10^{-8}	4.0
313	4.37×10^{-5}	4.23×10^{-5}	−3.2
443	1.02×10^{-5}	1.01×10^{-5}	−1.0
185	4.11×10^{-5}	4.16×10^{-5}	1.2
621	4.40×10^{-5}	4.36×10^{-5}	−0.9
350	3.27×10^{-5}	3.31×10^{-5}	1.2
85	7.51×10^{-5}	7.59×10^{-5}	1.1
597	5.20×10^{-6}	5.48×10^{-6}	5.4

* Vertical leakage.

Accuracy of the streamline solution is shown in Table 2 which compares flow rates indicated by the streamlines with those calculated using Darcy's law and hydraulic gradients from the simulated heads. The values are considered very close, verifying that the streamlines are reliable. The small percent differences (usually less than 5 percent) can be attributed largely to errors in measurement of the hydraulic gradients and streamtube widths. The hydraulic gradients used are average values estimated within the respective streamtubes.

SUMMARY

A method has been outlined for generating the steady-state streamlines of a flow net in heterogeneous, anisotropic media in the absence of internal sources or sinks. The method can be implemented with most flow modeling algorithms. Boundary conditions can be of the Dirichlet (prescribed Ψ) or Neumann (prescribed F) types, and for the latter only information on head differentials along the boundary is needed. With the Neumann boundary conditions, the technique is a viable alternative to solving for hydraulic heads when only flow patterns are desired. Several test cases demonstrate that the method produces accurate flow nets.

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Graham E. Fogg received his B.S. and M.S. degrees in Hydrology from the Universities of New Hampshire and Arizona, respectively. He is currently working on a Ph.D. in Geology at The University of Texas at Austin. He has worked for the Texas Bureau of Economic Geology as a Ground-Water Hydrologist since 1978 on projects concerning nuclear waste disposal and deep-basin lignite development in Texas. Graham's specialties include numerical ground-water modeling, regional aquifer characterization, and stochastic analysis of aquifer heterogeneity.

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Attachment 6

Analyte	Well	Sample Date	Sample Type	Concentration	Units	Qualifier	MDL	Analytical Method	COC	Laboratory	2 - Sigma Error
Uranium	MWL-BW1	14-MAR-95	F	6.3	pCi/L		0.05	ASTM	2847	TMA EBERLINE	0.31
Uranium-233/234	MWL-MW4	14-MAR-94	F	7.7	pCi/L	B	0.019	HASL-300		TMA EBERLINE	1.2
Uranium-233/234	MWL-BW1	10-NOV-93	F	6.8	pCi/L		0.1	GAMMA		TMA EBERLINE	0.9
Uranium-233/234	MWL-MW2	16-OCT-95	SA	6.61	pCi/L		0.025	LAL-0108	04394	LAS	0.47
Uranium-233/234	MWL-MW2	02-MAY-94	F	6.5	pCi/L		0.076	HASL-300		TMA EBERLINE	1.3
Uranium-233/234	MWL-BW1	10-NOV-93	D	6.3	pCi/L		0.056	GAMMA		TMA EBERLINE	0.7
Uranium-233/234	MWL-MW2	17-APR-95	SA	6.28	pCi/L		0.035	LAL-0108	03308	LAS	0.48
Uranium-233/234	MWL-MW1	09-NOV-93	F	6.1	pCi/L		0.085	GAMMA		TMA EBERLINE	0.82
Uranium-233/234	MWL-MW1	20-OCT-95	SA	5.9	pCi/L		0.034	LAL-0108	04408	LAS	0.46
Uranium-233/234	MWL-BW1	23-OCT-95	SA	5.81	pCi/L		0.027	LAL-0108	04396	LAS	0.42
Uranium-233/234	MWL-MW1	03-MAY-94	D	5.5	pCi/L	B	0.053	HASL-300		TMA EBERLINE	1.1
Uranium-233/234	MWL-MW2	08-NOV-93	F	5.5	pCi/L		0.08	GAMMA		TMA EBERLINE	0.74
Uranium-233/234	MWL-MW1	04-MAY-94	D	5.4	pCi/L		0.065	HASL-300		TMA EBERLINE	1.1
Uranium-233/234	MWL-MW4	11-NOV-93	F	5.4	pCi/L		0.021	GAMMA		TMA EBERLINE	0.39
Uranium-233/234	MWL-MW3	17-APR-95	SA	5.29	pCi/L		0.032	LAL-0108	03308	LAS	0.41
Uranium-233/234	MWL-MW3	09-NOV-93	F	5.2	pCi/L		0.079	GAMMA		TMA EBERLINE	0.65
Uranium-233/234	MWL-MW3	03-MAY-94	F	5.2	pCi/L		0.074	HASL-300		TMA EBERLINE	1.1
Uranium-233/234	MWL-MW4	31-MAY-94	F	5.1	pCi/L	B	0.023	HASL-300		TMA EBERLINE	1
Uranium-233/234	MWL-MW3	16-OCT-95	SA	4.85	pCi/L		0.028	LAL-0108	04394	LAS	0.37
Uranium-233/234	MWL-MW4	19-APR-95	DU	4.21	pCi/L		0.034	LAL-0108	03312	LAS	0.35
Uranium-233/234	MWL-MW4	20-OCT-95	DU	3.95	pCi/L		0.025	LAL-0108	04408	LAS	0.32
Uranium-233/234	MWL-MW4	19-APR-95	SA	3.92	pCi/L		0.035	LAL-0108	03312	LAS	0.35
Uranium-233/234	MWL-MW4	20-OCT-95	SA	3.34	pCi/L		0.029	LAL-0108	04408	LAS	0.3
Uranium-234	MWL-BW1	27-OCT-94	F	7.97	pCi/L		0.19	NAS-3050		QUANTERRA	1.7
Uranium-234	MWL-BW1	27-OCT-94	F	7.36	pCi/L		0.07	NAS-3050		QUANTERRA	1.57
Uranium-234	MWL-MW2	24-OCT-94	F	7.34	pCi/L		0.09	NAS-3050		QUANTERRA	1.66
Uranium-234	MWL-MW1	25-OCT-94	F	7.28	pCi/L		0.13	NAS-3050		QUANTERRA	1.51
Uranium-234	MWL-BW1	01-SEP-90	F	6.94	pCi/L		0.703	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-234	MWL-BW1	01-SEP-90	F	6.6	pCi/L		0.662	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-234	MWL-BW1	01-SEP-90	D	6.38	pCi/L		0.646	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-234	MWL-BW1	01-SEP-90	D	6.19	pCi/L		0.632	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-234	MWL-MW3	25-OCT-94	F	6.19	pCi/L		0.25	NAS-3050		QUANTERRA	1.51
Uranium-234	MWL-MW4	28-OCT-94	F	5.24	pCi/L		0.17	NAS-3050		QUANTERRA	1.3
Uranium-234	MWL-MW1	24-OCT-94	F	.056	pCi/L		0.076	NAS-3050		QUANTERRA	0.08
Uranium-235	MWL-MW2	16-OCT-95	SA	7	pCi/L		10	LAL-0063	04394	LAS	15
Uranium-235	MWL-MW3	02-APR-98	SA	22	pCi/L		15.9	EPI A-013	510614	EPI	20.5

Analyte	Well	Sample Date	Sample Type	Concentration	Units	Qualifier	MDL	Analytical Method	COC	Laboratory	2 - Sigma Error
Uranium-235	MWL-MW1	20-OCT-95	SA	-15	pCi/L		19	LAL-0063	04408	LAS	21
Uranium-235	MWL-MW4	20-OCT-95	DU	15	pCi/L		16	LAL-0063	04408	LAS	27
Uranium-235	MWL-BW1	23-OCT-95	SA	-13	pCi/L		23	LAL-0063	04396	LAS	34
Uranium-235	MWL-MW3	16-OCT-95	SA	-11	pCi/L		19	LAL-0063	04394	LAS	28
Uranium-235	MWL-MW4	20-OCT-95	SA	1	pCi/L		10	LAL-0063	04408	LAS	15
Uranium-235	MWL-MW2	26-APR-93	F	<35	pCi/L	U	35	GAMMA		TMA EBERLINE	9999.9999
Uranium-235	MWL-MW4	30-APR-93	F	<35	pCi/L	U	35	GAMMA		TMA EBERLINE	9999.9999
Uranium-235	MWL-BW1	28-APR-93	F	<34	pCi/L	U	34	GAMMA		TMA EBERLINE	9999.9999
Uranium-235	MWL-MW1	27-APR-93	F	<34	pCi/L	U	34	GAMMA		TMA EBERLINE	9999.9999
Uranium-235	MWL-MW3	27-APR-93	F	<34	pCi/L	U	34	GAMMA		TMA EBERLINE	9999.9999
Uranium-235	MWL-MW4	28-APR-93	F	<33	pCi/L	U	33	GAMMA		TMA EBERLINE	9999.9999
Uranium-235	MWL-MW1	23-APR-97	F	<28	pCi/L	U	28	LAL-0063	06275	Lockheed	31
Uranium-235	MWL-MW4	23-APR-97	D	<24	pCi/L	U	24	LAL-0063	06275	Lockheed	7.4
Uranium-235	MWL-MW2	24-APR-97	F	<21	pCi/L	U	21	LAL-0063	06276	Lockheed	27
Uranium-235	MWL-MW1	15-OCT-97	DU	<19	pCi/L	U	19	LAL-0063	510007	LAS	29
Uranium-235	MWL-MW2	16-OCT-97	SA	<19	pCi/L	U	19	LAL-0063	510008	LAS	29
Uranium-235	MWL-MW4	15-OCT-97	SA	<18	pCi/L	U	18	LAL-0063	510007	LAS	29
Uranium-235	MWL-MW1	15-OCT-97	SA	<17	pCi/L	U	17	LAL-0063	510007	LAS	27
Uranium-235	MWL-MW4	23-APR-97	F	<16	pCi/L	U	16	LAL-0063	06275	Lockheed	14
Uranium-235	MWL-BW1	17-OCT-97	SA	<16	pCi/L	U	16	LAL-0063	510009	LAS	24
Uranium-235	MWL-MW2	02-APR-98	SA	<13.7	pCi/L	U	13.7	EPI A-013	510614	EPI	21
Uranium-235	MWL-BW1	28-APR-97	F	<13	pCi/L	U	13	LAL-0063	06609	Lockheed	19
Uranium-235	MWL-MW3	24-APR-97	F	<13	pCi/L	U	13	LAL-0063	06276	Lockheed	19
Uranium-235	MWL-MW3	16-OCT-97	SA	<13	pCi/L	U	13	LAL-0063	510008	LAS	10
Uranium-235	MWL-BW1	31-MAR-98	SA	<12.7	pCi/L	U	12.7	EPI A-013	510612	EPI	19.6
Uranium-235	MWL-BW1	31-MAR-98	SA	<12.4	pCi/L	U	12.4	EPI A-013	510612	EPI	23.9
Uranium-235	MWL-MW2	02-MAY-94	F	.23	pCi/L		0.025	HASL-300		TMA EBERLINE	0.1
Uranium-235	MWL-MW4	14-MAR-94	F	.21	pCi/L		0.019	HASL-300		TMA EBERLINE	0.082
Uranium-235	MWL-BW1	23-OCT-95	SA	.187	pCi/L		0.011	LAL-0108	04396	LAS	0.055
Uranium-235	MWL-MW2	17-APR-95	SA	.184	pCi/L		0.015	LAL-0108	03308	LAS	0.062
Uranium-235	MWL-MW1	20-OCT-95	SA	.176	pCi/L		0.019	LAL-0108	04408	LAS	0.065
Uranium-235	MWL-MW4	19-APR-95	SA	.171	pCi/L		0.016	LAL-0108	03312	LAS	0.062
Uranium-235	MWL-MW2	16-OCT-95	SA	.169	pCi/L		0.013	LAL-0108	04394	LAS	0.054
Uranium-235	MWL-MW3	17-APR-95	SA	.163	pCi/L		0.017	LAL-0108	03308	LAS	0.058
Uranium-235	MWL-MW3	16-OCT-95	SA	.146	pCi/L		0.012	LAL-0108	04394	LAS	0.05
Uranium-235	MWL-MW4	19-APR-95	DU	.142	pCi/L		0.021	LAL-0108	03312	LAS	0.056

Analyte	Well	Sample Date	Sample Type	Concentration	Units	Qualifier	MDL	Analytical Method	COC	Laboratory	2 - Sigma Error
Uranium-235	MWL-MW4	20-OCT-95	SA	.139	pCi/L		0.012	LAL-0108	04408	LAS	0.051
Uranium-235	MWL-MW4	11-NOV-93	F	.13	pCi/L		0.021	GAMMA		TMA EBERLINE	0.042
Uranium-235	MWL-MW2	08-NOV-93	F	.12	pCi/L		0.036	GAMMA		TMA EBERLINE	0.082
Uranium-235	MWL-MW4	20-OCT-95	DU	.116	pCi/L		0.017	LAL-0108	04408	LAS	0.048
Uranium-235	MWL-BW1	10-NOV-93	D	.11	pCi/L		0.025	GAMMA		TMA EBERLINE	0.066
Uranium-235	MWL-MW1	04-MAY-94	D	.1	pCi/L		0.048	HASL-300		TMA EBERLINE	0.06
Uranium-235	MWL-MW3	09-NOV-93	F	.099	pCi/L		0.03	GAMMA		TMA EBERLINE	0.066
Uranium-235	MWL-MW1	03-MAY-94	D	.094	pCi/L		0.053	HASL-300		TMA EBERLINE	0.062
Uranium-235	MWL-BW1	01-SEP-90	D	.0909	pCi/L		0.0289	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-235	MWL-MW3	03-MAY-94	F	.089	pCi/L		0.062	HASL-300		TMA EBERLINE	0.064
Uranium-235	MWL-BW1	01-SEP-90	D	.0833	pCi/L		0.0276	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-235	MWL-BW1	01-SEP-90	F	.0782	pCi/L		0.0266	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-235	MWL-BW1	10-NOV-93	F	.071	pCi/L		0.039	GAMMA		TMA EBERLINE	0.064
Uranium-235	MWL-MW1	09-NOV-93	F	.064	pCi/L		0.085	GAMMA		TMA EBERLINE	0.064
Uranium-235	MWL-BW1	01-SEP-90	F	.0629	pCi/L		0.0229	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-235	MWL-MW4	31-MAY-94	F	.061	pCi/L		0.023	HASL-300		TMA EBERLINE	0.048
Uranium-235/236	MWL-MW1	24-OCT-94	F	0	pCi/L		0.094	NAS-3050		QUANTERRA	0
Uranium-235/236	MWL-BW1	27-OCT-94	F	.43	pCi/L		0.24	NAS-3050		QUANTERRA	0.26
Uranium-235/236	MWL-MW1	25-OCT-94	F	.38	pCi/L		0.17	NAS-3050		QUANTERRA	0.22
Uranium-235/236	MWL-MW3	25-OCT-94	F	.32	pCi/L		0.19	NAS-3050		QUANTERRA	0.25
Uranium-235/236	MWL-BW1	27-OCT-94	F	.26	pCi/L		0.14	NAS-3050		QUANTERRA	0.19
Uranium-235/236	MWL-MW4	28-OCT-94	F	.22	pCi/L		0.19	NAS-3050		QUANTERRA	0.2
Uranium-235/236	MWL-MW2	24-OCT-94	F	.2	pCi/L		0.11	NAS-3050		QUANTERRA	0.18
Uranium-238	MWL-MW3	19-JAN-93	F	38	pCi/L		0	RAD SCR		ITRSL	166
Uranium-238	MWL-BW1	27-OCT-94	F	3.18	pCi/L		0.07	NAS-3050		QUANTERRA	0.81
Uranium-238	MWL-BW1	27-OCT-94	F	3.05	pCi/L		0.23	NAS-3050		QUANTERRA	0.8
Uranium-238	MWL-BW1	10-NOV-93	D	3	pCi/L		0.025	GAMMA		TMA EBERLINE	0.41
Uranium-238	MWL-BW1	10-NOV-93	F	3	pCi/L		0.1	GAMMA		TMA EBERLINE	0.5
Uranium-238	MWL-MW1	09-NOV-93	F	3	pCi/L		0.085	GAMMA		TMA EBERLINE	0.49
Uranium-238	MWL-MW4	28-OCT-94	F	2.94	pCi/L		0.1	NAS-3050		QUANTERRA	0.85
Uranium-238	MWL-MW4	14-MAR-94	F	2.8	pCi/L	B	0.056	HASL-300		TMA EBERLINE	0.49
Uranium-238	MWL-MW2	08-NOV-93	F	2.6	pCi/L		0.095	GAMMA		TMA EBERLINE	0.44
Uranium-238	MWL-MW3	09-NOV-93	F	2.5	pCi/L		0.079	GAMMA		TMA EBERLINE	0.39
Uranium-238	MWL-MW1	25-OCT-94	F	2.45	pCi/L		0.12	NAS-3050		QUANTERRA	0.64
Uranium-238	MWL-BW1	01-SEP-90	F	2.43	pCi/L		0.272	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-238	MWL-MW2	17-APR-95	SA	2.41	pCi/L		0.029	LAL-0108	03308	LAS	0.25

Analyte	Well	Sample Date	Sample Type	Concentration	Units	Qualifier	MDL	Analytical Method	COC	Laboratory	2 - Sigma Error
Uranium-238	MWL-MW4	11-NOV-93	F	2.4	pCi/L		0.008	GAMMA		TMA EBERLINE	0.21
Uranium-238	MWL-BW1	01-SEP-90	F	2.38	pCi/L		0.262	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-238	MWL-BW1	01-SEP-90	D	2.36	pCi/L		0.262	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-238	MWL-MW2	24-OCT-94	F	2.33	pCi/L		0.09	NAS-3050		QUANTERRA	0.7
Uranium-238	MWL-BW1	01-SEP-90	D	2.28	pCi/L		0.257	UNK		ITAS-OAK RIDGE	9999.9999
Uranium-238	MWL-MW2	16-OCT-95	SA	2.26	pCi/L		0.021	LAL-0108	04394	LAS	0.22
Uranium-238	MWL-MW1	20-OCT-95	SA	2.23	pCi/L		0.027	LAL-0108	04408	LAS	0.25
Uranium-238	MWL-BW1	23-OCT-95	SA	2.21	pCi/L		0.021	LAL-0108	04396	LAS	0.22
Uranium-238	MWL-MW2	02-MAY-94	F	2.2	pCi/L		0.025	HASL-300		TMA EBERLINE	0.49
Uranium-238	MWL-MW3	25-OCT-94	F	2.2	pCi/L		0.21	NAS-3050		QUANTERRA	0.71
Uranium-238	MWL-MW4	31-MAY-94	F	2.1	pCi/L		0.023	HASL-300		TMA EBERLINE	0.48
Uranium-238	MWL-MW3	17-APR-95	SA	2.02	pCi/L		0.028	LAL-0108	03308	LAS	0.22
Uranium-238	MWL-MW3	03-MAY-94	F	2	pCi/L		0.095	HASL-300		TMA EBERLINE	0.46
Uranium-238	MWL-MW2	02-APR-98	SA	156	pCi/L		88.3	EPI A-013	510614	EPI	119
Uranium-238	MWL-BW1	31-MAR-98	SA	127	pCi/L		79.8	EPI A-013	510612	EPI	191
Uranium-238	MWL-BW1	20-JAN-93	F	120	pCi/L		0	RAD SCR		ITRSL	208
Uranium-238	MWL-MW2	18-JAN-93	F	119	pCi/L		0	RAD SCR		ITRSL	165
Uranium-238	MWL-BW1	31-MAR-98	SA	108	pCi/L		69.6	EPI A-013	510612	EPI	115
Uranium-238	MWL-MW1	04-MAY-94	D	1.9	pCi/L		0.078	HASL-300		TMA EBERLINE	0.42
Uranium-238	MWL-MW3	16-OCT-95	SA	1.86	pCi/L		0.019	LAL-0108	04394	LAS	0.2
Uranium-238	MWL-MW4	19-APR-95	DU	1.81	pCi/L		0.029	LAL-0108	03312	LAS	0.21
Uranium-238	MWL-MW4	19-APR-95	SA	1.81	pCi/L		0.031	LAL-0108	03312	LAS	0.22
Uranium-238	MWL-MW1	03-MAY-94	D	1.8	pCi/L		0.053	HASL-300		TMA EBERLINE	0.42
Uranium-238	MWL-MW4	20-OCT-95	DU	1.76	pCi/L		0.02	LAL-0108	04408	LAS	0.19
Uranium-238	MWL-MW4	20-OCT-95	SA	1.72	pCi/L		0.02	LAL-0108	04408	LAS	0.2
Uranium-238	MWL-MW2	26-APR-93	F	<1200	pCi/L	U	1200	GAMMA		TMA EBERLINE	9999.9999
Uranium-238	MWL-MW3	27-APR-93	F	<1200	pCi/L	U	1200	GAMMA		TMA EBERLINE	9999.9999
Uranium-238	MWL-MW4	28-APR-93	F	<1200	pCi/L	U	1200	GAMMA		TMA EBERLINE	9999.9999
Uranium-238	MWL-MW3	02-APR-98	SA	<114	pCi/L	U	114	EPI A-013	510614	EPI	211
Uranium-238	MWL-BW1	28-APR-93	F	<1100	pCi/L	U	1100	GAMMA		TMA EBERLINE	9999.9999
Uranium-238	MWL-MW1	27-APR-93	F	<1100	pCi/L	U	1100	GAMMA		TMA EBERLINE	9999.9999
Uranium-238	MWL-MW4	30-APR-93	F	<1100	pCi/L	U	1100	GAMMA		TMA EBERLINE	9999.9999
Uranium-238	MWL-MW1	24-OCT-94	F	-.002	pCi/L		0.117	NAS-3050		QUANTERRA	0.006
Uranium-238	MWL-MW2	24-OCT-94	F	7.84	ug/L		1	ASTM 517		QUANTERRA	0.83
Uranium-238	MWL-MW2	17-APR-95	SA	6.64	ug/L		0.14	LAL-0168	03308	LAS	0.34
Uranium-238	MWL-MW4	19-APR-95	DU	6.5	ug/L		0.14	LAL-0168	03312	LAS	0.33

Analyte	Well	Sample Date	Sample Type	Concentration	Units	Qualifier	MDL	Analytical Method	COC	Laboratory	2 - Sigma Error
Uranium-238	MWL-MW4	19-APR-95	SA	6.17	ug/L		0.14	LAL-0168	03312	LAS	0.32
Uranium-238	MWL-MW3	17-APR-95	SA	5.49	ug/L		0.14	LAL-0168	03308	LAS	0.28
Uranium-238	MWL-MW1	25-OCT-94	F	5.48	ug/L		1	ASTM 517		QUANTERRA	0.57
Uranium-238	MWL-BW1	27-OCT-94	F	5.09	ug/L		1	ASTM 517		QUANTERRA	0.53
Uranium-238	MWL-MW3	25-OCT-94	F	4.82	ug/L		1	ASTM 517		QUANTERRA	0.5
Uranium-238	MWL-MW4	28-OCT-94	F	2690	ug/L		1	ASTM 517		QUANTERRA	347
Uranium-238	MWL-MW1	24-OCT-94	F	1.34	ug/L		1	ASTM 517		QUANTERRA	0.14
Uranium-238	MWL-BW1	27-OCT-94	F	<1	ug/L	U	1	ASTM 517		QUANTERRA	9999.9999

Attachment 8

4.6.4.5 Radiochemistry

Radiochemical results for borehole soil samples are presented in Appendix E. The borehole number, sample number, sample depth (linear borehole depth and true depth), radionuclide, and activity are given. Two anomalous values were identified during initial review of the radiochemical analytical data. Plutonium-238 and Plutonium-239/240 were detected at 50 ft in BH-8 at levels exceeding the MDA, and Strontium-90 was detected at 130 ft in BH-10 at a level exceeding the MDA. SNL,NM reanalyzed the two soil samples. Results of the reanalysis showed levels of both radionuclides to be below the MDAs. All other analyses performed on borehole soil samples for isotopic uranium, thorium, and plutonium, total-radio strontium, and gross alpha/beta were below MDAs. The only other radionuclide detected in borehole soil samples was tritium.

4.6.4.6 Tritium (Revised)

The range of tritium activities in borehole soil samples are presented in Table 4.6-7. Tritium was detected in all 15 boreholes. Tritium activities ranged from 0.001 pCi/g in BH-15 to 206.7 pCi/g in BH-12. The highest tritium activities were encountered around the classified area in BH-8 through BH-12 and in BH-14 and BH-15.

Tritium activities with depth are presented in Table 4.6-8. Table 4.6-8 provides the borehole number, the borehole depth (linear ft), true depth (ft bgs), and tritium activity with depth. Of the 120 soil samples collected and analyzed for tritium, 28 were non-detects. Tritium activities from Table 4.6-8 are projected into two longitudinal cross-sections, A-A' and B-B', in Figures 4.6-2 and 4.6-3, respectively. Figure 4.6-4 shows the bearing of cross-sections A-A' and B-B'. Four of the five highest overall tritium activities (5.07 pCi/g at 43 ft bgs, 4.72 pCi/g in the 43 ft duplicate sample, 206.70 pCi/g at 26 ft bgs, and 29.48 pCi/g at 9 ft bgs) were detected in the upper 43 ft of BH-12. The fifth highest overall tritium activity, 13.54 pCi/g, was detected in BH-10 at 26 ft bgs. All other tritium activities in the remaining borehole soil samples were below 2.09 pCi/g. In all but one case, BH-1 at 61 ft bgs, the highest tritium activities were encountered within the upper 26 ft of soil. Ten of the 15 boreholes showed the highest tritium activities within the upper 9 ft of soil (Table 4.6-8).

There are no RCRA proposed Subpart S action levels for radionuclides in soil. As a result, tritium activities from borehole drilling were compared to local background tritium levels. To determine local background levels for tritium, soil sampling was conducted 600 ft west of the MWL in June 1994 (Section 3.4). Samples were collected at depths of 6 ft bgs and 12 ft bgs in ten soil borings. A total of 20 samples and two duplicates were collected. Local background tritium results are presented in Table 4.6-9. Tritium activities ranged from 0.004 pCi/g to 0.042 pCi/g.

Table 4.6-7 Range of Tritium Activities in Borehole Soil Samples (Revised)

Borehole	Range of Tritium Activities (pCi/g)
BH-1	0.002 - 0.04
BH-2	0.064[a]
BH-3	0.008 - 0.009[b]
BH-4	0.003 - 0.075
BH-5	0.002 - 0.395
BH-6	0.003 - 0.745
BH-7	0.004 - 0.106
BH-8	0.004 - 1.043
BH-9	0.112 - 1.403
BH-10	0.01 - 13.541
BH-11	0.007 - 0.295
BH-12	0.017 - 206.7
BH-13	0.005 - 0.1
BH-14	0.008 - 0.07
BH-15	0.001 - 1.773

[a] Only soil sample in which tritium was detected. All other soil samples from this borehole were non-detect.

[b] Only two samples in which tritium was detected. All other soil samples from this borehole were non-detect.

Table 4.6-8 Tritium Activity with Depth in Borehole Soil Samples (Revised)

Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Borehole				
		BH-1	BH-2	BH-3	BH-4	BH-5
10	9	0.038	0.064	0.009	0.075	0.395
30	26	0.01 (0.011)	ND	ND	0.006 (0.012)	0.003
50	43	ND	ND	ND	0.003	ND (0.014)
70	61	0.04	ND	ND (ND)	ND	0.002
90	78	0.008	ND (ND)	ND	ND	ND
110	95	0.004	ND	ND	0.003	ND
120	104	0.002	ND	0.008	ND	0.009
		BH-6	BH-7	BH-8	BH-9	BH-10
10	9	0.187	0.106	0.583	1.403	2.09
30	26	0.742 (0.745)	ND (ND)	0.155 (1.043)	0.557 (0.456)	13.541
50	43	ND	ND	0.005	0.391	0.558 (1.406)
70	61	ND	0.05	0.009	0.112	0.08
90	78	0.003	0.007	0.009	0.135	0.161
110	95	ND	0.004	0.004	ND	0.074
120	104	0.009	0.064	NS	NS	NS
130	113	NS	NS	0.010	NS	0.017
135	117	NS	NS	NS	NS	0.01
139	120	NS	NS	NS	NS	0.029
		BH-11	BH-12	BH-13	BH-14[c]	BH-15[c]
10	9	0.295	29.48	0.10	0.07	1.773
30	26	0.014 (0.01)	206.70	ND (0.045)	0.027 (0.017)	0.059 (0.041)
50	43	0.03	5.073 (4.723)	0.008	0.03	0.011
70	61	0.016	0.116	0.01	0.02	0.036
90	78	0.022	0.046	0.008	0.023	0.011
110	95	0.007	0.017	0.005	0.008	0.019
119	103	NS	NS	0.01	NS	NS
122	106	NS	0.017	NS	NS	0.001
126	109	0.012	NS	NS	NS	NS

[a] Depth reported is linear feet for boreholes 1 through 13. These boreholes were drilled at an angle of 30 degrees from vertical.

[b] Depth reported is actual feet bgs.

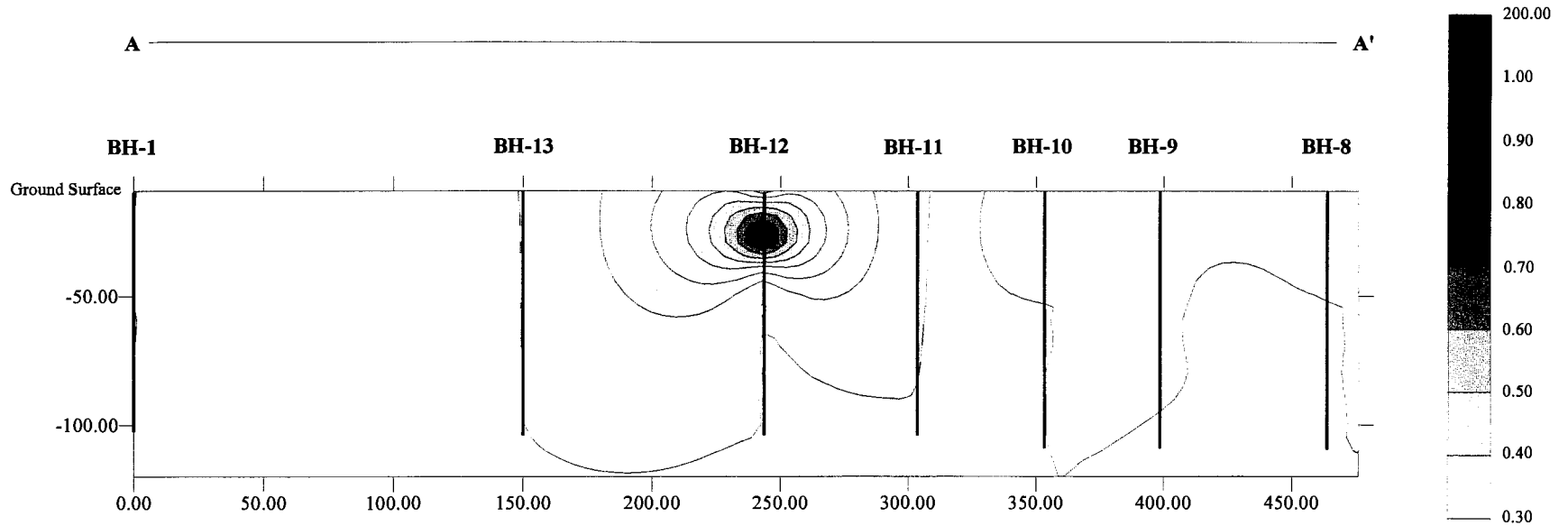
[c] Boreholes 14 and 15 were drilled vertically, therefore, the depths reported are actual feet bgs.

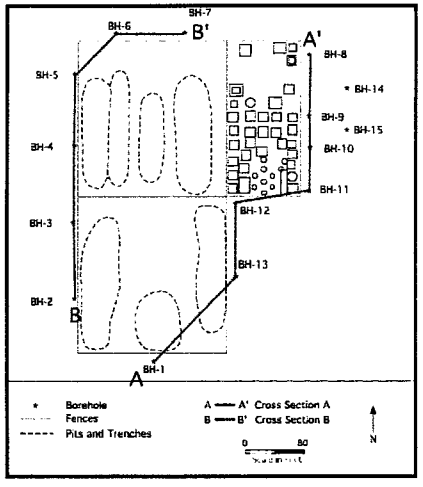
* All concentrations reported in pico curies per gram (pCi/g).

ND - Tritium was not detected above minimum detectable activity.

NS - No sample was collected.

( ) - Duplicate sample





Mixed Waste Landfill

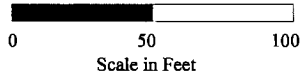
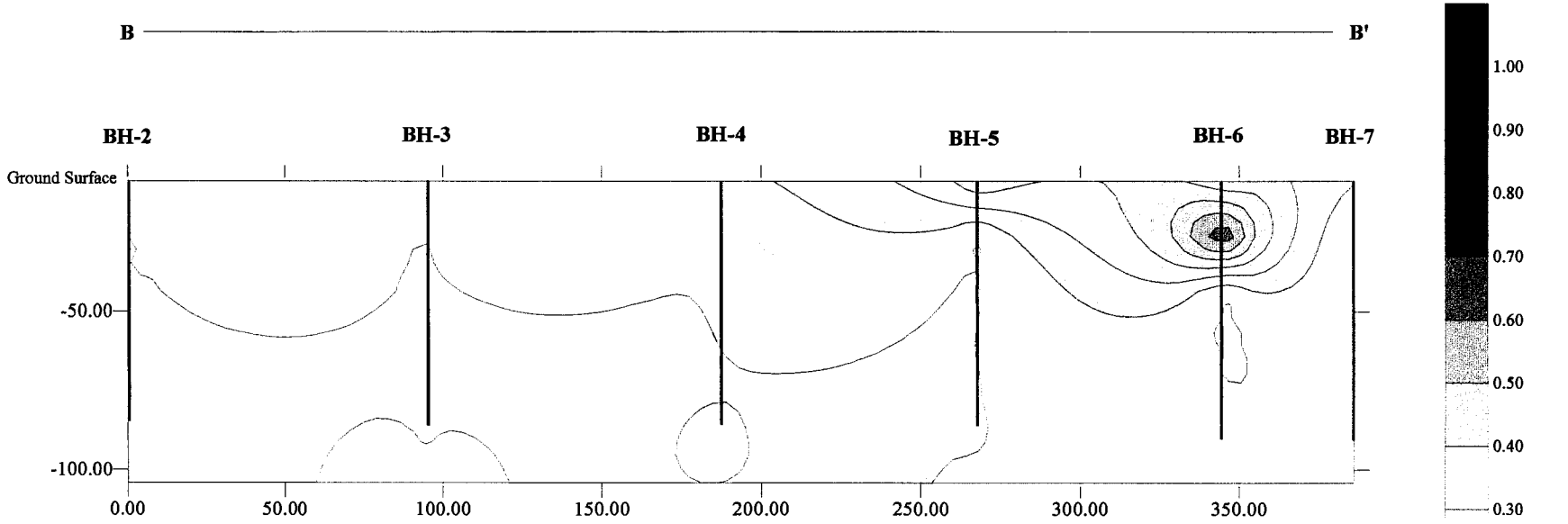
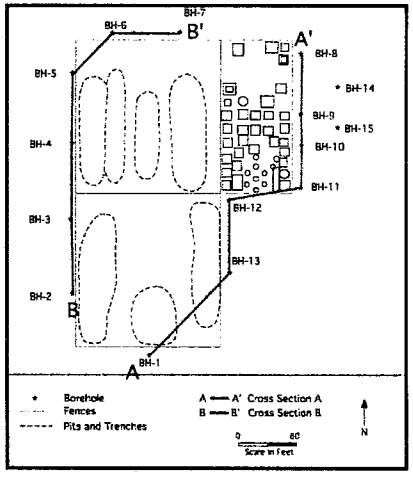


Figure 4.6-2
Tritium Activity in Soil Beneath the Mixed Waste Landfill (MWL), Cross Section A-A'

tritium.srf a-a' PTGD-01/10/99





Mixed Waste Landfill

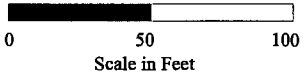


Figure 4.6-3
Tritium Activity in Soil Beneath the Mixed Waste Landfill (MWL), Cross Section A-A'

tritium.srf b-b' PTGD-01/10/99

Appendix E MWL Borehole Drilling Radiochemical Analytical Results (Revised)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Radionuclide	Concentration (pCi/g)
BH-1	022411-03	10	9	Tritium	0.038
	022412-03	30	26	Tritium	0.01
	022413-03	30 dup	26	Tritium	0.011
	022414-03	50	43	-	ND
	022416-03	70	61	Tritium	0.04
	022415-03	90	78	Tritium	0.008
	022417-03	110	95	Tritium	0.004
	022418-03	120	104	Tritium	0.002
BH-2	022421-03	10	9	Tritium	0.064
	022422-03	30	26	-	ND
	022423-03	50	43	-	ND
	022424-03	70	61	-	ND
	022426-03	90	78	-	ND
	022427-03	90 dup	78	-	ND
	022428-03	110	95	-	ND
	022429-03	120	104	-	ND
BH-3	022432-03	10	9	Tritium	0.009
	022433-03	30	26	-	ND
	022434-03	50	43	-	ND
	022435-03	70	61	-	ND
	022436-03	70 dup	61	-	ND
	022437-03	90	78	-	ND
	022439-03	110	95	-	ND
	022440-03	120	104	Tritium	0.008
BH-4	022443-03	10	9	Tritium	0.075
	022444-03	30	26	Tritium	0.006
	022445-03	30 dup	26	Tritium	0.012
	022446-03	50	43	Tritium	0.003
	022448-03	70	61	-	ND
	022449-03	90	78	-	ND
	022450-03	110	95	Tritium	0.003
	022451-03	120	104	-	ND
BH-5	022455-03	10	9	Tritium	0.395
	022456-03	30	26	Tritium	0.003
	022457-03	50	43	-	ND
	022458-03	50 dup	43	Tritium	0.014
	023286-03	70	61	Tritium	0.002
	023287-03	90	78	-	ND
	023289-03	110	95	-	ND
	023290-03	120	104	Tritium	0.009

Appendix E MWL Borehole Drilling Radiochemical Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Radionuclide	Concentration (pCi/g)
BH-6	023291-03	10	9	Tritium	0.187
	023294-03	30	26	Tritium	0.742
	023295-03	30 dup	26	Tritium	0.745
	023296-03	50	43	-	ND
	023297-03	70	61	-	ND
	023298-03	90	78	Tritium	0.003
	023300-03	110	95	-	ND
	023301-03	120	104	Tritium	0.009
BH-7	023306-03	10	9	Tritium	0.106
	023307-03	30	26	-	ND
	023308-03	30 dup	26	-	ND
	023309-03	50	43	-	ND
	023310-03	70	61	Tritium	0.05
	023312-03	90	78	Tritium	0.007
	023313-03	110	95	Tritium	0.004
	023314-03	120	104	Tritium	0.064
BH-8	023318-03	10	9	Tritium	0.583
	023319-03	30	26	Tritium	0.155
	023320-03	30 dup	26	Tritium	1.043
	023321-03	50	43	Tritium	0.005
	023322-03	70	61	Tritium	0.009
	023324-03	90	78	Tritium	0.009
	023325-03	110	95	Tritium	0.004
	023326-03	130	113	Tritium	0.01
BH-9	023329-03	10	9	Tritium	1.403
	023330-03	30	26	Tritium	0.557
	023331-03	30 dup	26	Tritium	0.456
	023332-03	50	43	Tritium	0.391
	023333-03	70	61	Tritium	0.112
	023335-03	90	78	Tritium	0.135
	023336-03	110	95	Tritium	ND
BH-10	023340-03	10	9	Tritium	2.09
	023341-03	30	26	Tritium	13.541
	023337-03	50	43	Tritium	0.558
	023342-03	50 dup	43	Tritium	1.406
	023343-03	70	61	Tritium	0.08
	023344-03	90	78	Tritium	0.161
	023345-03	110	95	Tritium	0.074
	023346-03	130	113	Tritium	0.017
	023347-03	135	117	Tritium	0.01
	023350-03	139	120	Tritium	0.029

Appendix E MWL Borehole Drilling Radiochemical Analytical Results (continued)

Borehole Number	Sample Number	Borehole Depth[a] (linear ft)	True Depth[b] (ft bgs)	Radionuclide	Concentration (pCi/g)
BH-11	023351-03	10	9	Tritium	0.295
	023352-03	30	26	Tritium	0.014
	023353-03	30 dup	26	Tritium	0.01
	023354-03	50	43	Tritium	0.03
	023355-03	70	61	Tritium	0.016
	023356-03	90	78	Tritium	0.022
	023883-03	110	95	Tritium	0.007
	023884-03	126	109	Tritium	0.012
BH-12	023888-03	10	9	Tritium	29.48
	023890-03	30	26	Tritium	206.70
	023889-03	50	43	Tritium	5.073
	023891-03	50 dup	43	Tritium	4.723
	023892-03	70	61	Tritium	0.116
	023893-03	90	78	Tritium	0.046
	023895-03	110	95	Tritium	0.017
	023896-03	122	106	Tritium	0.017
BH-13	023899-03	10	9	Tritium	0.10
	023900-03	30	26	-	ND
	023901-03	30 dup	26	Tritium	0.045
	023902-03	50	43	Tritium	0.008
	023903-03	70	61	Tritium	0.01
	023905-03	90	78	Tritium	0.008
	023906-03	110	95	Tritium	0.005
	023907-03	119	103	Tritium	0.01
BH-14	023910-03	NA	10	Tritium	0.07
	023911-03	NA	30	Tritium	0.027
	023912-03	NA	30 dup	Tritium	0.017
	023913-03	NA	50	Tritium	0.03
	023914-03	NA	70	Tritium	0.02
	023916-03	NA	90	Tritium	0.023
	023917-03	NA	110	Tritium	0.008
BH-15	023921-03	NA	10	Tritium	1.773
	023922-03	NA	30	Tritium	0.059
	023923-03	NA	30 dup	Tritium	0.041
	023924-03	NA	50	Tritium	0.011
	023927-03	NA	70	Tritium	0.036
	023925-03	NA	90	Tritium	0.011
	023928-03	NA	110	Tritium	0.019
	023929-03	NA	122	Tritium	0.001

[a] Depth reported is linear feet for boreholes 1 through 13. These boreholes were drilled at an angle of 30 degrees from vertical.

[b] Depth reported is actual feet below ground surface.

pCi/g - Pico curies per gram

ND - Not detected above instrument method detection limits

NA - Boreholes 14 and 15 were drilled vertically, therefore the depths reported are actual feet below ground surface.

"dup" - Duplicate sample

Attachment 9D

Attachment 9E

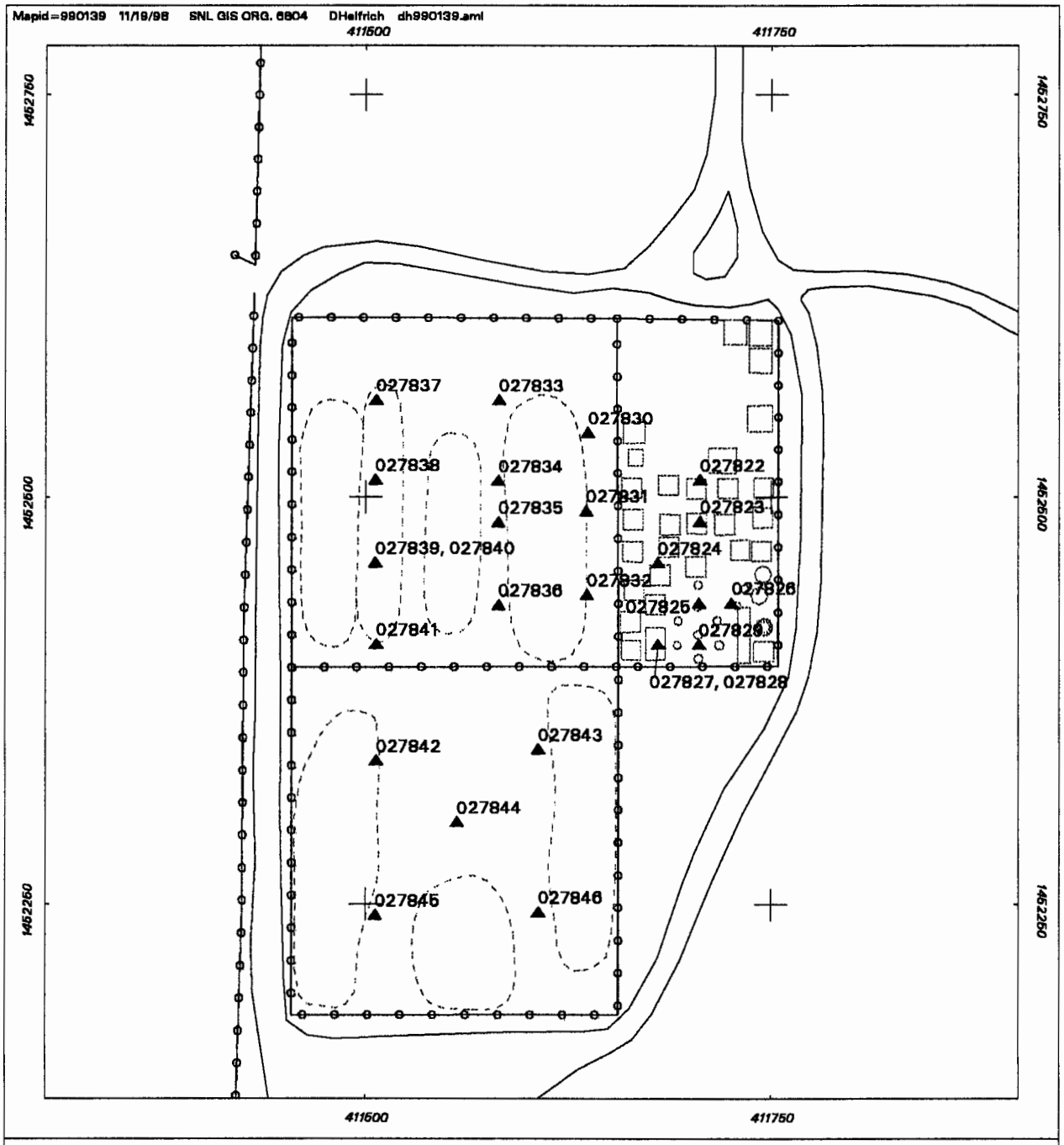
In March 1996, 25 surface soil samples were collected at the MWL for VOC, SVOC, TAL metals, and Gamma Spec analysis. VOC, SVOC, and TAL metals analyses were performed by Quanterra St. Louis. VOCs were analyzed by EPA Method 8260, SVOCs by EPA Method 8270, TAL metals by EPA Method 6010, and mercury by EPA Method 7470. Gamma Spec analysis was performed onsite at SNL/NM by the Radiation Protection Sample Diagnostics Program. The VOC, SVOC, TAL metals, and Gamma Spec results for the 25 surface soil samples, as well as all associated QA/QC data, are presented in Appendix 9E.

The 1996 surface soil sample locations are presented in Figure 9.E-1. Seven samples (027822, 027823, 027824, 027825, 027826, 027827, 027829) were collected from the classified area of the MWL; twelve samples (027830, 027831, 027832, 027833, 027834, 027835, 027836, 027837, 027838, 027839, 027841) were collected from the northern unclassified area of the MWL; and five samples (027842, 027843, 027844, 027845, 027846) were collected from the southern unclassified area of the MWL. In addition, two duplicate samples were collected (027828 and 027840). QA/QC samples consisted of one equipment blank (analyzed for VOCs, SVOCs, and TAL metals) and two trip blanks (analyzed for VOCs).

VOC and SVOC sample results were compared to EPA Region 6 PRG soil screening levels. TAL metals were compared to DOE OB suggested maximum background levels and EPA Region 6 PRG soil screening levels.

In evaluating VOC and SVOC data, EPA guidance was used to discount specific VOCs and SVOCs that were present in the surface soil sample and the associated laboratory or field blanks. The EPA states that: "The purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory (or field) activities. The criteria for evaluation of blanks apply to any blank associated with the samples (e.g., method blanks, instrument blanks, trip blanks, and equipment blanks). If problems with <u>any</u> blank exist, all associated data must be carefully evaluated to determine whether or not there is an inherent variability in the data, or if the problem is an isolated occurrence not affecting other data" (EPA, 1994). Common VOC laboratory contaminants identified are acetone, 2-butanone, and methylene chloride. Common SVOC laboratory contaminants identified are phthalates (i.e., di-n-butyl phthalate, bis(2-ethylhexyl)phthalate) and other ubiquitous compounds in laboratory blanks. Specific guidance states that an analytical result may be discounted if the compound is identified in a sample at a concentration that is less than or equal to 10 times the concentration that was identified in a blank sample or 5 times the amount for other volatile target compounds. In instances where more than one blank is associated with a given sample, qualification should be based upon a comparison with the associated blank having the highest concentration of a contaminant (EPA, 1994).

The VOCs, SVOCs, and TAL metals detected in field and laboratory blanks associated with the 25 surface soil samples are presented in Table 9.E-1. The table shows the sample number and matrix, the analyte, the concentration of the analyte present in the blank, the laboratory detection limit, and associated comments.



Legend

027837 ▲ Surface Soil Sample Location & ER Sample ID

Road

Fence

Trench

Pit

Figure 9.E-1
VOC, SVOC, Metals, & Gamma Spec Surface Soil Sample Locations

0 50 100
Scale in Feet

0 12 24
Scale in Meters

N

Sandia National Laboratories, New Mexico
Environmental Restoration Geographic Information System

Table 9.E - 1 VOCs, SVOCs, and Metals Detected in Field and Laboratory Blanks

ER Sample ID	Analyte	Concentration	Laboratory Detction Limit	Comments
VOCs:				
027853-03/EB (water)	acetone	6 J ug/L	20 ug/L	Field and laboratory blanks associated with samples 027830-01 through 027841-01.
027855-01/TB (water)	acetone	12 J ug/L	20 ug/L	
027854-01/TB (soil)	methylene chloride	8 ug/kg	5 ug/kg	
	acetone	37 ug/kg	20 ug/kg	
QCBLK94619-1 (soil)	acetone	12 J ug/kg	20 ug/kg	
SVOCs:				
027853-01/EB[a] (water)	di-n-butyl phthalate	7 BJ ug/L	10 ug/L	Field and laboratory blanks associated with samples 027830-01 through 027841-01.
QCBLK94871-1 (water)	di-n-butyl phthalate	5 J ug/L	10 ug/L	
	butyl benzyl phthalate	1 J ug/L	10 ug/L	
METALS:				
027853-02/EB (water)	aluminum	0.054 J mg/L	0.20 mg/L	Equipment blank associated with samples 027830-02 through 027841-02.
	barium	0.0047 J mg/L	0.20 mg/L	
	calcium	2.2 J mg/L	5.0 mg/L	
	iron	0.14 mg/L	0.10 mg/L	
	magnesium	0.18 J mg/L	5.0 mg/L	
	sodium	0.23 J mg/L	5.0 mg/L	
	zinc	0.022 mg/L	0.020 mg/L	
QCBLK95112-1 (water)	aluminum	0.048 J mg/L	0.20 mg/L	Laboratory method blank associated with samples 02783-01 through 027841-02.
	calcium	0.052 J mg/L	5.0 mg/L	
	copper	0.011 J mg/L	0.025 mg/L	
	iron	0.036 J mg/L	0.10 mg/L	
	zinc	0.0073 J mg/L	0.020 mg/L	
QCBLK95243-1 (soil)	aluminum	3.4 J mg/kg	20.0 mg/kg	Laboratory method blank associated with samples 027830-02 through 027841-02.
	calcium	4.9 J mg/kg	500 mg/kg	
	copper	1.1 J mg/kg	2.5 mg/kg	
	iron	2.8 J mg/kg	10.0 mg/kg	
	lead	0.20 J mg/kg	0.30 mg/kg	
	zinc	0.54 J mg/kg	2.0 mg/kg	
QCBLK94465-1 (soil)	aluminum	5.7 J mg/kg	20.0 mg/kg	Laboratory method blank associated with samples 027822-02 through 027829-02.
	barium	-0.083 J mg/kg	20.0 mg/kg	
	calcium	3.1 J mg/kg	500 mg/kg	
	iron	1.9 J mg/kg	10.0 mg/kg	
QCBLK93998-1 (soil)	aluminum	4.4 J mg/kg	20.0 mg/kg	Laboratory method blank associated with samples 027842-02 through 027846-02.
	barium	-0.12 J mg/kg	20.0 mg/kg	
	calcium	2.2 J mg/kg	500 mg/kg	
	iron	1.6 J mg/kg	10.0 mg/kg	
	magnesium	-15.3 J mg/kg	500 mg/kg	
	sodium	-7.1 J mg/kg	100 mg/kg	
	vanadium	-0.95 J mg/kg	5.0 mg/kg	
	zinc	-0.23 J mg/kg	2.0 mg/kg	

[a]Analyzed 3 days out of hold time
"EB" - Equipment blank
"TB" - Trip blank
"QCBLK" - Laboratory method blank
ug/L - micrograms per liter
"J" - Concentration of the compound in the blank was below the reporting Limit but above the detection limit
"B" - Analyte found in laboratory method blank

VOCs

Table 9.E-2 summarizes VOCs detected in surface soil samples. The table provides the ER Sample ID, the analyte, the concentration, the laboratory detection limit, whether the analyte was eliminated based on the 10 times rule, the residential PRG soil screening level, and whether the analyte was below the PRG soil screening level.

Methylene chloride was detected in two of the 25 surface soil samples. Both detections were eliminated based on the 10 times rule (methylene chloride was detected in the corresponding trip blank).

Acetone was detected in 15 of the 25 surface soil samples. Ten of the 15 acetone detects were subsequently eliminated by the 10 times rule (acetone was detected in a laboratory method blank, an equipment blank, and a trip blank associated with 15 of the samples). Concentrations of acetone in the five remaining samples ranged from 12 J ug/kg to 13 J ug/kg (ER Sample ID 027842-01 through 027846-01). All five acetone detects were "J" qualified. The residential PRG soil screening level established by EPA Region 6 for acetone is 1.4×10^6 ug/kg. All acetone detects were well below the PRG soil screening level. Acetone is a common laboratory contaminant.

Toluene was detected in one surface soil sample at 2 J ug/kg (ER Sample ID 027833-01). The residential PRG soil screening level established by EPA Region 6 for toluene is 5.2×10^5 ug/kg.

SVOCs

Table 9.E-3 summarizes SVOCs detected in surface soil samples. The table provides the ER Sample ID, the analyte, the concentration, the laboratory detection limit, whether the analyte was eliminated based on the 10 times rule, and the residential PRG soil screening level, and whether the analyte was below the PRG soil screening level.

Di-n-butyl phthalate was detected in six of the 25 surface soil samples (ER Sample ID 027827-02, 027839-02, 027842-02 through 027845-02). Concentrations ranged from 38 J ug/kg to 160 J ug/kg. All six detects were "J" qualified. Di-n-butyl phthalate was detected in blank samples associated with only one of the samples (sample number 027839-02). The concentration present in the sample was greater than 10 times the amount that was detected in the blank, therefore it could not be eliminated based on the 10 times rule. No PRG soil screening level was identified by the EPA for di-n-butyl phthalate.

Di-n-octyl phthalate was detected in five of the 25 samples (ER Sample ID 027842-02 through 027846-02). Concentrations ranged from 67 J ug/kg to 74 J ug/kg. All five detects were "J" qualified. Di-n-octyl phthalate was not detected in any blank samples. The residential PRG soil screening level established by EPA Region 6 for di-n-octyl phthalate is 1.1×10^6 ug/kg. All concentrations detected are well below the PRG soil screening level.

Table 9.E - 2 VOCs Detected in MWL Surface Soils

ER Sample ID	Analyte	Concentration (ug/kg)	Laboratory Detection Limit (ug/kg)	Eliminated Based on 10x Rule[a]	Residential PRG Soil Screening Level (ug/kg)[b]	Below PRG Screening Level	Comments
027822-01	acetone	13 J	20	Y	1.4×10^6	Y	Acetone detected in laboratory method blank associated with samples 027822-01 through 027829-01 at 12 J ug/kg.
027823-01	acetone	12 J	20	Y	1.4×10^6	Y	
027824-01	acetone	13 BJ	20	Y	1.4×10^6	Y	
027825-01	acetone	12 BJ	20	Y	1.4×10^6	Y	
027826-01	acetone	12 BJ	20	Y	1.4×10^6	Y	
027827-01	acetone	12 J	20	Y	1.4×10^6	Y	
027828-01; dup of 027827-01	acetone	12 J	20	Y	1.4×10^6	Y	
027829-01	acetone	12 J	20	Y	1.4×10^6	Y	
027830-01	ND	-	-	-	-	-	Acetone detected in equipment blank associated with samples 027830-01 through 027841-01 at 6 J ug/kg. Acetone and Methylene Chloride detected in trip blank associated with samples 027830-01 through 027841-01 at 37 ug/kg and 8 ug/kg, respectively.
027831-01	ND	-	-	-	-	-	
027832-01	ND	-	-	-	-	-	
027833-01	toluene	2 J	5	N	5.2×10^5	Y	
027834-01	ND	-	-	-	-	-	
027835-01	ND	-	-	-	-	-	
027836-01	ND	-	-	-	-	-	
027837-01	ND	-	-	-	-	-	
027838-01	ND	-	-	-	-	-	
027839-01	ND	-	-	-	-	-	
027840-01; dup of 027839-01	methylene chloride	5	5	Y	8.5×10^3	Y	
	acetone	29	20	Y	1.4×10^6	Y	
027841-01	methylene chloride	10	5	Y	8.5×10^3	Y	
	acetone	180	20	Y	1.4×10^6	Y	

Table 9.E - 2 VOCs Detected in MWL Surface Soils (Concluded)

ER Sample ID	Analyte	Concentration (ug/kg)	Laboratory Detection Limit (ug/kg)	Eliminated Based on 10x Rule[a]	Residential PRG Soil Screening Level (ug/kg)[b]	Below PRG Screening Level	Comments
027842-01	acetone	12 J	20	N	1.4×10^6	Y	
027843-01	acetone	13 J	20	N	1.4×10^6	Y	
027844-01	acetone	12 J	20	N	1.4×10^6	Y	
027845-01	acetone	13 J	20	N	1.4×10^6	Y	
027846-01	acetone	12 J	20	N	1.4×10^6	Y	

[a]Guidance on Evaluation, Resolution, and Documentation of Analytical Problems Associated with Compliance Monitoring, EPA 821-B-93-001, February 1993

[b]EPA Region 6 Human Health Media-Specific Screening Levels, US EPA, Region 6, Dallas TX

ug/kg - micrograms per kilogram

ND - No volatile organic compound was detected above instrument method detection limits

"J" - Concentration of the compound in the sample was below the Reporting Limit (RL) but above the Detection Limit (DL)

"B" - Compound found in method blank

Table 9.E - 3 SVOCs Detected in MWL Surface Soils

ER Sample ID	Analyte	Concentration (ug/kg)	Laboratory Detection Limit (ug/kg)	Eliminated Based on 10x Rule[a]	Residential PRG Soil Screening Level (ug/kg)[b]	Below PRG Screening Level	Comments
027822-02	ND	-	-	-	-	-	
027823-02	ND	-	-	-	-	-	
027824-02	ND	-	-	-	-	-	
027825-02	ND	-	-	-	-	-	
027826-02	ND	-	-	-	-	-	
027827-02	di-n-butyl phthalate	38 J	330	N	NA	-	
	bis(2-ethylhexyl)phthalate	38 J	330	N	3.2×10^4	Y	
027828-02; dup of 027827-02	ND	-	-	-	-	-	
027829-02	ND	-	-		-	-	
027830-02	ND	-	-	-	-	-	Di-n-butyl phthalate detected in equipment blank associated with samples 027830-02 through 027841-02 at 7 BJ ug/kg.
027831-02	ND	-	-	-	-	-	
027832-02	ND	-	-	-	-	-	
027833-02	ND	-	-	-	-	-	
027834-02	ND	-	-	-	-	-	
027835-02	ND	-	-	-	-	-	
027836-02	ND	-	-	-	-	-	
027837-02	ND	-	-	-	-	-	Di-n-butyl phthalate and butyl benzyl phthalate detected in laboratory method blank at 5 J ug/kg and 1 J ug/kg, respectively.
027838-02	ND	-	-	-	-	-	
027839-02	di-n-butyl phthalate	140 J	330	N	NA	-	
027840-02; dup of 027839-02	ND	-	-	-	-	-	
027841-02	ND	-	-	-	-	-	

Table 9.E - 3 SVOCs Detected in MWL Surface Soils (Concluded)

ER Sample ID	Analyte	Concentration (ug/kg)	Laboratory Detection Limit (ug/kg)	Eliminated Based on 10x Rule[a]	Residential PRG Soil Screening Level (ug/kg)[b]	Below PRG Screening Level	Comments
027842-02	di-n-butyl phthalate	150 J	330	N	NA	-	
	bis(2-ethylhexyl)phthalate	34 J	330	N	3.2×10^4	Y	
	di-n-octyl phthalate	74 J	330	N	1.1×10^6	Y	
027843-02	di-n-butyl phthalate	160 J	330	N	NA	-	
	di-n-octyl phthalate	70 J	330	N	1.1×10^6	Y	
027844-02	di-n-butyl phthalate	140 J	330	N	NA	-	
	di-n-octyl phthalate	72 J	330	N	1.1×10^6	Y	
027845-02	di-n-butyl phthalate	93 J	330	N	NA	-	
	di-n-octyl phthalate	72 J	330	N	1.1×10^6	Y	
027846-02	bis(2-ethylhexyl)phthalate	73 J	330	N	3.2×10^4	Y	
	di-n-octyl phthalate	67 J	330	N	1.1×10^6	Y	

[a]Guidance on Evaluation, Resolution, and Documentation of Analytical Problems Associated with Compliance Monitoring, EPA 821-B-93-001, February 1993

[b]EPA Region 6 Human Health Media-Specific Screening Levels, US EPA, Region 6, Dallas TX

ND - No semivolatile organic compound was detected above instrument method detection limits

NA - Residential PRG soil screening level not available

ug/kg - micrograms per kilogram

"J" - Concentration of the compound in the sample was below the Reporting Limit (RL) but above the Detection Limit (DL)

"B" - Compound found in method blank

Bis(2-ethylhexyl)phthalate was detected in three of the 25 samples (ER Sample ID 027827-02, 027842-02, 027846-02). Concentrations ranged from 34 J ug/kg to 73 J ug/kg. All three detects were "J" qualified. Bis(2-ethylhexyl)phthalate was not detected in any blank samples. The residential PRG soil screening level established by EPA Region 6 for bis(2-ethylhexyl)phthalate is 3.2×10^4 ug/kg. All concentrations detected are well below the PRG soil screening level.

Phthalates are considered to be common laboratory contaminants and are also used as plasticizers.

TAL Metals

Table 9.E-4 presents the TAL metals results for the 25 surface soil samples. The table provides the ER Sample ID, the metal, and the concentration of the metal detected in the sample. Laboratory detection limits for each of the TAL metals are presented in Table 9.E-5. A summary of the TAL metals results are presented in Table 9.E-6. The table provides the ER Sample ID, the metal, the highest measured concentration of each specific metal, and a comparison to both the DOE OB suggested maximum background and the residential PRG soil screening level.

The maximum concentrations of barium (168 mg/kg), thallium (1.9 mg/kg), and vanadium (21.1 mg/kg) slightly exceeded the DOE OB suggested maximum background concentrations of 130 mg/kg, <1.1 mg/kg, and 20.4 mg/kg, respectively. The maximum concentration of beryllium was equivalent to the DOE OB suggested maximum background concentration of 0.65 mg/kg.

All TAL metals concentrations were below the corresponding residential PRG soil screening levels with the exception of arsenic (3.7 mg/kg). The residential PRG soil screening level for arsenic is 0.38 mg/kg.

Conclusions

Acetone was detected in five samples in concentrations ranging from 12 J ug/kg to 13 J ug/kg. Toluene was detected in one surface soil sample at 2 J ug/kg. All detects were "J" qualified. The concentrations of acetone and toluene detected were orders of magnitude less than the residential PRG soil screening level established by EPA Region 6 for these analytes.

Di-n-butyl phthalate was detected in six samples in concentrations ranging from 38 J ug/kg to 160 J ug/kg. No PRG soil screening level has been identified by the EPA for di-n-butyl phthalate.

Di-n-octyl phthalate was detected in five samples in concentrations ranging from 67 J ug/kg to 74 J ug/kg. Bis(2-ethylhexyl)phthalate was detected in three samples in concentrations ranging from 34 J ug/kg to 73 J ug/kg. All detects of di-n-octyl phthalate and bis(2-ethylhexyl)phthalate were "J" qualified. The concentrations of di-n-octyl

Table 9.E- 4 TAL Metals Detected in MWL Surface Soils

ER Sample ID	Mercury Hg (mg/kg)	Silver Ag (mg/kg)	Aluminum Al (mg/kg)	Arsenic As (mg/kg)	Barium Ba (mg/kg)	Beryllium Be (mg/kg)	Calcium Ca (mg/kg)	Cadmium Cd (mg/kg)	Cobalt Co (mg/kg)	Chromium Cr (mg/kg)	Copper Cu (mg/kg)	Iron Fe (mg/kg)
027822-02	ND	ND	6240	3.4	139.0	0.52	38400	ND	3.8 J	7.6	6.8	8760
027823-02	ND	ND	7210	3.2	129.0	0.53	30600	ND	3.6 J	7.8	5.7	9480
027824-02	ND	ND	7700	3.4	137.0	0.53	32400	ND	3.7 J	8.2	6.4	10200
027825-02	ND	ND	5810	3.1	121.0	0.46 J	39700	ND	3.4 J	6.8	6.4	8320
027826-02	ND	0.54 J	4020	2.7	118.0	0.41 J	32700	ND	2.9 J	4.6	5.3	5630
027827-02	ND	ND	4410	3.3	136.0	0.44 J	35000	ND	3.3 J	5.0	5.0	6720
027828-02(a)	ND	0.56 J	6940	3.4	140.0	0.52	38900	0.37 J	3.6 J	7.4	6.2	9110
027829-02	ND	0.57 J	6550	2.6	94.0	0.48 J	34300	ND	3.2 J	7.1	5.5	8440
027830-02	ND	ND	4430	2.0	58.0	0.36 J	6940	0.35 J	2.6 J	6.0	3.6	7030
027831-02	ND	ND	4610	2.3	94.6	0.43 J	42100	ND	2.5 J	4.4	5.2	5450
027832-02	ND	ND	4880	3.3	126.0	0.47 J	30600	ND	3.1 J	5.5	6.2	7100
027833-02	ND	ND	2750	1.5	44.0	0.27 J	1540	ND	2.4 J	4.0	4.0	5100
027834-02	ND	ND	9590	3.4	97.3	0.61	2330	ND	3.5 J	8.6	5.3	10100
027835-02	ND	ND	4740	2.9	106.0	0.43 J	36600	ND	2.9 J	5.4	5.8	6870
027836-02	ND	ND	4910	2.7	56.5	0.37 J	2950	ND	2.4 J	5.9	3.6	6800
027837-02	ND	ND	4830	3.0	139.0	0.42 J	28100	ND	3.3 J	6.2	5.6	7450
027838-02	ND	ND	4090	3.1	145.0	0.45 J	39000	ND	3.5 J	5.1	6.6	6550
027839-02	ND	ND	4250	3.3	168.0	0.43 J	43100	ND	3.3 J	5.4	6.1	6680
027840-02(b)	ND	ND	5070	3.7	156.0	0.47 J	38300	ND	3.4 J	6.4	6.4	7720
027841-02	ND	ND	7080	3.0	76.6	0.51	2000	ND	3.2 J	6.9	3.5	7890
027842-02	ND	0.85 J	12100	3.7 J	68.1	0.65	2590	ND	3.0 J	10.2	4.7	11100
027843-02	ND	0.96 J	12300	3.4 J	84.1	0.62	2460	ND	3.6 J	11.5	4.7	11700
027844-02	ND	0.80 J	5750	2.7 J	128.0	0.4 J	33800	ND	2.6 J	6.8	4.9	7800
027845-02	ND	0.86 J	9860	3.2 J	82.8	0.54	2120	ND	3.1 J	9.7	4.6	10600
027846-02	ND	0.72 J	7240	2.1 J	58.4	0.41 J	1900	ND	3.3 J	8.9	4.0	9580

Table 9.E- 4 TAL Metals Detected in MWL Surface Soils (Concluded)

ER Sample ID	Potassium K (mg/kg)	Magnesium Mg (mg/kg)	Manganese Mn (mg/kg)	Sodium Na (mg/kg)	Nickel Ni (mg/kg)	Lead Pb (mg/kg)	Antimony Sb (mg/kg)	Selenium Se (mg/kg)	Thallium Tl (mg/kg)	Vanadium V (mg/kg)	Zinc Zn (mg/kg)
027822-02	1190	3750	137.0	149 J	6.3	4.8	ND	ND	0.51 J	18.1	22.7
027823-02	1200	3500	143.0	232 J	7.6	5.2	ND	ND	ND	18.9	24.0
027824-02	1400	3880	153.0	506.0	6.6	4.8	ND	ND	0.63 J	21.1	24.4
027825-02	1370	3450	132.0	79.1 J	6.4	5.3	ND	ND	0.52 J	16.9	23.8
027826-02	979	2840	118.0	389 J	6.3	4.9	ND	ND	ND	12.0	17.2
027827-02	1020	3130	174.0	63.3 J	7.3	4.1	ND	ND	ND	14.4	19.1
027828-02(a)	1290	3840	142.0	83.2 J	6.5	5.6	ND	ND	ND	18.9	22.3
027829-02	1490	3120	127.0	385 J	6.3	5.0	ND	ND	ND	17.1	23.5
027830-02	1040	1550	122.0	75.4 J	4.0	5.5	ND	0.56	1.10	12.5	17.9
027831-02	946	2540	75.4	58.1 J	4.7	4.0	ND	ND	ND	13.2	13.9
027832-02	921	2860	119.0	363 J	5.5	5.1	ND	ND	0.70 J	15.7	18.9
027833-02	714	1050	123.0	313 J	3.4 J	5.5	ND	ND	ND	8.8	13.9
027834-02	1620	2140	133.0	117 J	7.3	6.4	ND	0.56	1.90	17.7	23.4
027835-02	1060	2660	111.0	219 J	5.0	5.1	ND	ND	0.92 J	14.9	17.8
027836-02	1200	1400	108.0	218 J	4.6	5.3	ND	0.54	0.98 J	11.8	16.9
027837-02	716	2940	119.0	61.5 J	6.1	5.0	ND	ND	0.93 J	16.1	19.1
027838-02	780	3300	128.0	77.7 J	5.6	5.2	ND	ND	0.58 J	15.2	19.1
027839-02	789	3290	124.0	131 J	6.6	5.1	ND	ND	0.69 J	15.3	18.8
027840-02(b)	185	3430	128.0	206 J	6.1	5.5	ND	0.56	0.98 J	16.9	20.4
027841-02	1190	1710	99.1	158 J	5.8	5.4	ND	0.47 J	1.40	14.0	18.8
027842-02	2400	2690	114.0	66 J	7.5	5.4 J	ND	ND	0.65 J	20.0	25.7
027843-02	2510	2610	150.0	78.2 J	7.3	6.8 J	ND	ND	ND	19.6	28.5
027844-02	1020	2930	110.0	63.2 J	6.2	3.7 J	ND	ND	ND	16.4	17.6
027845-02	1790	2330	124.0	63.8 J	7.7	5.5 J	ND	ND	ND	19.3	23.1
027846-02	1650	1720	161.0	57.5 J	6.2	7.5 J	ND	ND	ND	15.8	26.8

(a) - Duplicate of 027827-02

(b) - Duplicate of 027839-02

mg/kg Milligrams per kilogram

ND - No metal was detected above laboratory instrument method detection limits

"J" - Concentration of the metal in the sample was below the reporting limit but above the detection limit

Table 9.E- 5 Laboratory Detection Limits for TAL Metals

Mercury Hg (mg/kg)	Silver Ag (mg/kg)	Aluminum Al (mg/kg)	Arsenic As (mg/kg)	Barium Ba (mg/kg)	Beryllium Be (mg/kg)	Calcium Ca (mg/kg)	Cadmium Cd (mg/kg)	Cobalt Co (mg/kg)
0.10	1.0	20.0	1.0	20.0	0.50	500	0.50	5.0

Chromium Cr (mg/kg)	Copper Cu (mg/kg)	Iron Fe (mg/kg)	Potassium K (mg/kg)	Magnesium Mg (mg/kg)	Manganese Mn (mg/kg)	Sodium Na (mg/kg)	Nickel Ni (mg/kg)	Lead Pb (mg/kg)
1.0	2.5	10.0	500	500	1.5	500[a]	4.0	0.30

Antimony Sb (mg/kg)	Selenium Se (mg/kg)	Thallium Tl (mg/kg)	Vanadium V (mg/kg)	Zinc Zn (mg/kg)
6.0	0.50	1.00	5.0	2.0

[a]Sample numbers 027842-02 through 027846-02 - detection limit for Na is 100 mg/kg

mg/kg - Milligrams per kilogram

Table 9.E- 6 Maximum Concentrations of TAL Metals Detected in MWL Surface Soil Samples

ER Sample ID	Metal	Highest Measured Concentration (mg/kg)	DOE OB Suggested Maximum Background (mg/kg)	Below DOE OB Suggested Maximum Background	Residential PRG Soil Screening Level (mg/kg)[a]	Below PRG Screening Level
-	Mercury	ND	-	-	-	-
027843-02	Aluminum	12300	NA	-	75000	Y
027840-02; dup of	Antimony	ND	-	-	-	-
027839-02	Arsenic	3.7	5.6	Y	0.38	N
027839-02	Barium	168	130	N	5200	Y
027842-02	Beryllium	0.65	0.65	N	150	Y
027828-02; dup of 027827-02	Cadmium	0.37J	<1	Y	37	Y
027839-02	Calcium	43100	NA	-	NA	-
027843-02	Total Chromium	11.5	17.3	Y	210	Y
027822-02	Cobalt	3.8J	5.2	Y	3300	Y
027822-02	Copper	6.8	15.4	Y	2800	Y
027843-02	Iron	11700	NA	-	22000	Y
027846-02	Lead	7.5J	21.4	Y	400	Y
027824-02	Magnesium	3880	NA	-	NA	-
027827-02	Manganese	174	NA	-	3100	Y
027845-02	Nickel	7.7	11.5	Y	1500	Y
027843-02	Potassium	2510	NA	-	NA	-
027830-02 027834-02 027840-02; dup of 027839-02	Selenium	0.56	<1	Y	370	Y
027843-02	Silver	0.96J	<1	Y	370	Y
027824-02	Sodium	506	NA	-	NA	-
027834-02	Thallium	1.9	<1.1	N	6	Y
027824-02	Vanadium	21.1	20.4	N	520	Y
027843-02	Zinc	28.5	62	Y	22000	Y

[a]EPA Region 6 Human Health Media-Specific Screening Levels, US EPA, Region 6, Dallas TX

mg/kg - Milligrams per kilogram

ND - No metal was detected above laboratory instrument method detection limits

NA - Not available

"J" - Concentration of the metal in the sample was below the reporting limit but above the detection limit

phthalate and bis(2-ethylhexyl)phthalate detected were orders of magnitude less than the residential PRG soil screening level established by EPA Region 6 for these analytes.

The maximum concentrations of barium, thallium, and vanadium slightly exceeded the DOE OB suggested maximum background concentrations. The maximum concentration of beryllium was equivalent to the DOE OB suggested maximum background concentration.

All TAL metals concentrations were below the corresponding residential PRG soil screening levels established by EPA Region 6, with the exception of arsenic.

References

EPA, 1994, "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," publication 9240.1-05, PB94-963501, EPA540/R-94/012, February 1994, Office of Emergency and Remedial Response, U.S. Environmental Protection Agency, Washington, DC.

Appendix 9E

VOC, SVOC, TAL Metals, and Gamma Spec Data for MWL Surface Soil Sampling

SMO ANALYTICAL DATA ROUTING FORM

Project Name: MWL RISK ASSESSMENT Case Number: 3618.500

SNL Task Leader: J. PEACE Org/Mail Stop: 7585/1148

SMO Project Coordinator: P. PUISSANT Sample Ship Date: 3/8/96

ARCOC	Lab	Lab ID
04893	QUANTERRA/SL	10541

Date Results Received:

Preliminary: _____ Final: 4/8/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 4/8/96 Reviewer: PUISSANT

Date Review Complete: 5-3-96 Signature: Katherine M Becker

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 5-3-96 Transmitted To: Jerry Peace

Transmitted By: KMB Filed In Record Center: KMB

Comments: _____

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Rev. 1
Attachment A
November 1995

Dmd 11-9-96

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: Jerry Peace Project Name: MWL Risk Assessment Case No. 3618.500

AR/COC No. 04893 Analytical Lab: QSTL SDG No. 10541

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	✓				
1.2	Container type(s) correct for analyses requested	✓				
1.3	Sample volume adequate for # and types of analyses requested	✓				
1.4	Preservative correct for analyses requested	✓				
1.5	Custody records continuous and complete	✓				
1.6	Lab sample number(s) provided	✓				
1.7	Condition upon receipt information provided	✓				
1.8	Tritium Screen data provided (Rad labs)		✓			

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	✓				
2.2	Date samples received	✓				
2.3	Method reference number(s) complete and correct	✓				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)		✓	See memo to Diane Mueller from Mike Franks		
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	NA				
2.6	Narrative provided	✓				
2.7	TAT met	✓				
2.8	Hold times met	✓				
2.9	All requested result data provided	✓				

Based on the review, this data package is complete ☒ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: Katherine M Becker Date: 5-3-96 Closed by: _____ Date: _____

ANALYSIS REQUEST AND CHAIN OF CUSTODY

Internal Lab Batch No. _____

SF 2001-COC.doc

PAGE _ OF 1

AR/COC- 04893

Dept. No./Mail Stop: 7085/MS
Project/Task Manager: Jerry Peace
Project Name: Risk Assessment
Record Center Code: WMF2 MWD/DAM
Logbook Ref No: N/A
Service Order No.: [illegible]

Date Samples Shipped: 3-8-96
Carrier/Waybill No.: A 6[illegible]
Lab Contact: Dianne Meeker
Lab Destination: Quanterra St. Louis
SMO Contact/Phone: [illegible]
Send Report to SMO Yes, Tim Gorring

Contract No.: AT-24[illegible]
Case No.: 3618.5[illegible]
SMD Authorization: [illegible]
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Location Tech Area 3
Building N/A Room N/A

Parameter & Method Requested: VOC (8260); SVOC (8270); TPH Kerosene

Reference LOV (available at SMO)

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270); TPH Kerosene								Lab Sample ID
027842-01	3705: 50E	0"	76	3/5/96 [illegible]	S	G	4 oz	None	G	SA	X									
027842-02	"	0"	76	[illegible]	S	G	8 oz	None	G	SA		X								
027843-01	3055: 15E	0"	76	3/5/96 [illegible]	S	G	4 oz	None	G	SA	X									
027843-02	"	0"	76	3/5/96 [illegible]	S	G	8 oz	None	G	SA		X								
027844-01	3105: 10SE	0"	76	3/5/96 9:55	S	G	4 oz	None	G	SA	X									
027844-02	"	0"	76	3/5/96 9:55	S	G	8 oz	None	G	SA		X								
027845-01	3055: 5E	0"	76	3/5/96 9:50	S	G	4 oz	None	G	SA	X									
027845-02	"	0"	76	3/5/96 [illegible]	S	G	8 oz	None	G	SA		X								
027846-01	3055: 15SE	0"	76	3/5/96 [illegible]	S	G	4 oz	None	G	SA	X									
027846-02	"	0"	76	3/5/96 [illegible]	S	G	8 oz	None	G	SA		X								

RMMA ☒ Yes ☐ No Ref. No. _____

Sample Disposal ☐ Return to Client ☒ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date _____

Sample Tracking
Date Entered (mm/dd/yy) 3/11/96
Entered by: [illegible]
QC Inits. _____

Special Instructions/QC Requirements
Will be released by 04/29/96

Abnormal Conditions on Receipt

Sample Team Members

Name	Signature	Init	Company/Organization/Phone
Jerry Peace	[illegible]	JP	SNL/[illegible]
Tim Gorring	[illegible]	TG	[illegible]
Mike McVey	[illegible]	MM	[illegible]

	Org.	Date	Time
1. Relinquished by [illegible]	[illegible]	[illegible]	[illegible]
1. Received by [illegible]	[illegible]	[illegible]	[illegible]
2. Relinquished by [illegible]	[illegible]	[illegible]	[illegible]
2. Received by			
3. Relinquished by			
3. Received by			
4. Relinquished by			
4. Received by			
5. Relinquished by			
5. Received by			
6. Relinquished by			
6. Received by			

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

Sandia National Laboratories

Albuquerque, New Mexico 87185-1305

date: March 8, 1996

to: D.L. McLaughlin, MS-1331 (7513)

H. Seeley

from: Howard Seeley, MS-1331 (7513)

subject: Samples 027842, 027843, 027844, 027845, 027846, 027851, and 027852 on COC 04894.

Per the license agreement of Quanterra - St. Louis Laboratory and US Nuclear Regulatory Commission (NRC), License Number 24-24817-01, the above referenced samples, contained on COC 04894, may be sent to the aforementioned laboratory without violating their license agreements.

If you have any questions, please contact me at 848-0846.

HS:7513:hws

Copy to:
(1095) K. A. Roberts, 7713
Dayfile

SAT. DELIVERY

SHIPPER

SF 6951-AE(1-93)

Sandia National Laboratories

1 [XXX] New Mexico [ ] California [ ] Other

SHIP TO: *Typed or neatly printed*

Quanterra Saint Louis
13715 Rider Trail North
Earth City, MO 63045

Attention: Dianne Meuller
(314) 298-8566 or 1 800 333-3305
Contract # AJ-2480B

ARCOC 4857/4859/4893

Date Exit Time & Date 3 | Highest Material Security Class. 4 U | Page 1 Of 1

Date to be Returned 5 | Document No. A 60044 | Shipping Code 6 C | Shipment Register No. 7 109327

Due at Destination 8 3-9-96 Date | [XXX] Firm (Premium transportation authorized) [ ] Flex (Most economical transportation)

Originator of Form 9 D. L. McLaughlin | Org. 7513 | Phone 844-0481 | Date Prepared 10 3-8-96

FROM: 11 TA 1 | Site 870B | Bldg. Lab | Room | Org. 7513

Requester's E No. 12 03319 | Requester's Name (Write "Same" if also originator) Same | Case No. 13 0876,123 6991-124

Material Billing 14: [ ] Charge [XXX] No Charge

Freight Billing 15: [XXX] Prepaid [ ] Collect *If collect, carrier & acct no. (if known)*

Reason for Shipment 16: Analysis of Environmental Samples

Authority for Shipment 17: N/A

Item No. 18	Sec. Class. 19	Quantity 20	Unit 21	Haz. Mat'l. 22	Property Tag No. And/Or MID No. 23	Description 24	Unit Value 25	$ Total 26
1	4	1	EA	No	N/A	Environmental Samples (MLL-Rich Ass Bwown)	N/A	N/A

Last Item

Important: Please Fax Copy of Completed Shipper to SMO at 844-4976

3/8/96

Grand Total 27 $ 1.05

DOE Transportation Safeguards Div. Courier Required? 28 [ ] YES [XXX] NO

Service Clerk 29 | Property Mgmt. Rep. 30 N/A

Date Shipped or Hand-carried 31 | Routing 32 5 1996 | B/L No. 33 296-3215943 | No. of Boxes 34 1 | Weight 35 100 | Total Cubic Feet/Dimensions 36 30x16x16 4.4

Authorizing Signature 37: D. L. McLaughlin 7513
Signature of manager above typed or printed name and Org.
I certify that the material being offered for shipment is nonhazardous unless noted as hazardous in block 22 and required information is being provided.

Special Approval 38: Name | Org.

Special Approval: Name | Org.

39: Bearer's Signature

40 Receipt Acknowledged: Recipient's Signature/Company | Date

Contract or PEL/MEL Rep. 41: Name | Org. [ ] External Loan

The listed material and accompanying information has been examined and the hazardous material designations and all preparations for shipment are certified correct. 42: Hazardous Material Consultant

43: Packed by

Ply 1:
Corporate File - Retained by the Traffic Organization after shipper is complete and items are ready for shipment.

RECEIVED
MAR 13 1996
SNL/SMO

Memorandum

TO: Kathy Becker

FROM: Diane Mueller

DATE: 3/12/96

SUBJECT: AR/COC 04893

Attached are the following:

Signed and dated copy of AR/COC 04893

Quanterra's in-house COC (Login Number 10541) which can be used as a cross reference for client and lab sample I.D's

Signed and dated Quanterra Condition Upon Receipt

Preliminary Invoice

On March 9, 1996, one (1) cooler was received at Quanterra, St. Louis. The temperature of this cooler was 4° C.

TAT requested is Normal turn = 30 days

ANALYSIS REQUEST AND CHAIN OF CUSTODY

nternal Lab Batch No. _____

PAGE 1 OF 1

AR/COC- 893

SF 2001-COC (6-95)

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/5 MWL/DAT
Logbook Ref No: N/A
Service Order No.: 550235

Date Samples Shipped: 3-8-96
Carrier/Waybill No.: A 60044
Lab Contact: Dianne Meuller
Lab Destination: Quanterra St. Louis
SMO Contact/Phone: Ram Poissant 848-0402
Send Report to SMO: Yes, Ram Poissant

Contract No.: AT-2480
Case No.: 3618.500
SMO Authorization: [illegible]
Bill to: Sandia National Laboratories, Supplier Services Department, P.O. Box 5800 MS 0154, Albuquerque, NM 87185-0154

Location Tech Area 3
Building N/A Room N/A

Parameter & Method Requested: VOC (8260), SVOC (8270), TAL Metals

	Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270)	TAL Metals	Lab Sample ID
1.	027842-01	2705: 50E	6"	76	3/5/96 9:[illegible]	S	G	4oz	None	G	SA	X			
2.	027842-02	"	6"	76	3/5/96 9:[illegible]	S	G	8oz	None	G	SA		X		
3.	027843-01	2655: 150E	6"	76	3/5/96 9:35	S	G	4oz	None	G	SA	X			
4.	027843-02	"	6"	76	3/5/96 9:35	S	G	8oz	None	G	SA		X		
5.	027844-01	3105: 100E	6"	76	3/5/96 9:35	S	G	4oz	None	G	SA	X			
6.	027844-02	"	6"	76	3/5/96 9:35	S	G	8oz	None	G	SA		X		
7.	027845-01	3655: 50E	6"	76	3/5/96 9:50	S	G	4oz	None	G	SA	X			
8.	027845-02	"	6"	76	3/5/96 9:50	S	G	8oz	None	G	SA		X		
9.	027846-01	3655: 150E	6"	76	3/5/96 9:55	S	G	4oz	None	G	SA	X			
10.	027846-02	"	6"	76	3/5/96 9:55	S	G	8oz	None	G	SA		X		

RMMA ☒ Yes ☐ No Ref. No. _____

Sample Disposal ☐ Return to Client ☒ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date _____

Sample Tracking
Date Entered (mm/dd/yy) _____
Entered by: _____
QC Inits. _____

Special Instructions/QC Requirements
Will be released by 04894

Abnormal Conditions on Receipt

Sample Team Members

Name	Signature	Init	Company/Organization/Phone
Jerry Peace	[signature]	JP	SNL/7585/284-2472
Tim Goecking	[signature]	TG	GRAM/7785/284-2563
Mike McVey	[signature]	MM	GRAM/7585/284-2591

	Org.	Date	Time
1. Relinquished by [signature]	7585	3/8/96	1000
1. Received by [signature]	GRAM 7513	3/8/96	1000
2. Relinquished by [signature]	GRAM 7513	3/8/96	1400
2. Received by [signature]	Quanterra	3-9-96	0840
3. Relinquished by			
3. Received by			
4. Relinquished by			
4. Received by			
5. Relinquished by			
5. Received by			
6. Relinquished by			
6. Received by			

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

Quanterra March 11, 1996 02:51 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10541

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by: S. Fournier PM Review: Kathy A. Giacofelli

Sample Header Template:

Sample No. / #	Client ID / Container Type	C-Matrix / Analysis	Date: Collected / Class	Received / Preservative	Due / Anal. Due Date	Shipper / Hold Date	Rad Category / Site	Rad Sample No. / (Container Numbers:% Filled)
10541-001	027842-01/270S:50E	Soil	05-MAR-96 09:10	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-010
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219446:100)
1		VOA/8260/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219446:100)
10541-002	027843-01/265S:150E	Soil	05-MAR-96 09:25	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-009
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219447:100)
1		VOA/8260/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219447:100)
10541-003	027844-01/310S:100E	Soil	05-MAR-96 09:35	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-008
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219448:100)
1		VOA/8260/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219448:100)
10541-004	027845-01/365S:50E	Soil	05-MAR-96 09:50	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-007
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219449:100)
1		VOA/8260/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219449:100)
10541-005	027846-01/365S:150E	Soil	05-MAR-96 09:55	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-006
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219450:100)
1		VOA/8260/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219450:100)
10541-006	027842-02/270S:50E	Soil	05-MAR-96 09:10	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-005
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219451:100)
1		HG/7470/Q4	S	COLD	01-APR-96	02-APR-96	S4E	(219451:100)
1		ICAPT/6010/Q4	S	COLD	01-APR-96	01-SEP-96	S4E	(219451:100)
1		RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219451:100)
10541-007	027843-02/265S:150E	Soil	05-MAR-96 09:25	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-004
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219452:100)
1		HG/7470/Q4	S	COLD	01-APR-96	02-APR-96	S4E	(219452:100)

Data:

3*=Sample has not been rad screened.

Quanterra March 11, 1996 02:51 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10541

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
# Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)	
Data:								
1	ICAPT/6010/Q4	S	COLD	01-APR-96	01-SEP-96	S4E	(219452:100)	
1	RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219452:100)	
10541-008	027844-02/310S:100E	Soil	05-MAR-96 09:35	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-003
1 AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219453:100)	
1	HG/7470/Q4	S	COLD	01-APR-96	02-APR-96	S4E	(219453:100)	
1	ICAPT/6010/Q4	S	COLD	01-APR-96	01-SEP-96	S4E	(219453:100)	
1	RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219453:100)	
10541-009	027845-02/365S:50E	Soil	05-MAR-96 09:50	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-002
1 AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219454:100)	
1	HG/7470/Q4	S	COLD	01-APR-96	02-APR-96	S4E	(219454:100)	
1	ICAPT/6010/Q4	S	COLD	01-APR-96	01-SEP-96	S4E	(219454:100)	
1	RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219454:100)	
10541-010	027846-02/365S:150E	Soil	05-MAR-96 09:55	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-001
1 AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219455:100)	
1	HG/7470/Q4	S	COLD	01-APR-96	02-APR-96	S4E	(219455:100)	
1	ICAPT/6010/Q4	S	COLD	01-APR-96	01-SEP-96	S4E	(219455:100)	
1	RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219455:100)	

3*=Sample has not been rad screened.

Quanterra
Environmental Services

C.. and C.O.C.
COPIED TO: BW / DM
DATE: 3-9-96
TIME: 11:00
BY: GWB

Login No.: 10541-2

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Sandia.
Date: 3-9-96 Time: 08:40
Project No: 605.09
Initiated by: Gerry W Byrd
Shipper/No: Fed Ex.
RFA/COC Numbers: 04893

Condition/Variance (Check all that apply):

1. ☐ Sample received broken/leaking.
2. ☐ Sample received without proper preservative.
   - ☐ Cooler temperature not within 4°C ± 2°C
     Record temperature: _____
   - ☐ pH _____
   - ☐ other: _____
3. ☐ Sample received in improper container.
4. ☐ Sample received without proper paperwork. Explain: _____
5. ☐ Paperwork received without sample.
6. ☐ No sample ID on sample container.
7. ☐ Custody tape disturbed/broken/missing.
8. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
9. ☐ All coolers on airbill not received with shipment.
10. ☐ Other (explain below): _____

☑ No variances were noted during sample receipt. Cooler Temperature Upon Receipt: 4°C

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____
☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is". _____
☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: (or designate) Gerry W Byrd Date: 3-9-96
Project Management Review: Kathy A Gearhart Date: 3-11-96

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 11/24/95

6529

Quanterra
Environmental Services

RECEIVED
APR 08 1996
SNL/SMO

CASE NARRATIVE

April 5, 1996

Sandia National Laboratory
BDM Bldg-2301 Buena Vista SE
Mail Stop 1347
Albuquerque, NM 87106

ATTN: Pam Puissant

This is the Case Narrative of the following samples:

Sandia Case Number	:	3618.500
Sandia Contract Number	:	AJ-2480B
Sandia Dept. Number	:	7585
Sandia Project Manager	:	Jerry Peace
Sandia Project Name	:	MWL Risk Assessment
AR/COC Number	:	04893
Quanterra Login Number	:	10541
St. Louis Project ID	:	605.09
Date Received	:	March 9, 1996
Number of Samples	:	Ten (10)
Samples Type	:	Soil

I. INTRODUCTION

On March 9, 1996, ten (10) soil samples were received at Quanterra Environmental Services, Earth City, MO from Sandia National Laboratories. The list of analytical tests performed, as well as date of receipt and analysis, can be found in the attached report.

All analytical results and quality control data for this data package were obtained in accordance with the contractual requirements and meet Quanterra's Quality Assurance Program which has been approved by Sandia National Laboratory.

Reviewed and Approved:

Diane W Mueller

Diane W. Mueller
Quanterra Project Manager

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10541
Lab Project ID : 605.09

I. INTRODUCTION (continued)

The samples were labeled as follows:

CLIENT SAMPLE ID	LAB SAMPLE NUMBER	PARAMETERS REQUIRED
027842-01/270S:50E	10541-001	Volatiles 8260
027843-01/265S:150E	10541-002	Volatiles 8260
027844-01/310S:100E	10541-003	Volatiles 8260
027845-01/365S:50E	10541-004	Volatiles 8260
027846-01/365S:150E	10541-005	Volatiles 8260
027842-02/270S:50E	10541-006	Semivolatiles; Metals & Mercury
027843-02/265S:150E	10541-007	Semivolatiles; Metals & Mercury
027844-02/310S:100E	10541-008	Semivolatiles; Metals & Mercury
027845-02/365S:50E	10541-009	Semivolatiles; Metals & Mercury
027846-01/365S:150E	10541-010	Semivolatiles; Metals & Mercury

II. RESULTS/METHODOLOGY

The analytical results for this report are presented by analytical tests. Each set of data will include sample identification, analytical results and the appropriate detection limits.

The samples were prepared and analyzed using the following methods:

Test	Method
Volatiles	EPA 8260
Semivolatiles	EPA 8270
Metals	EPA 6010
Mercury	EPA 7470

III. QUALITY CONTROL

QA/QC information was performed on the enclosed analytical data. The purpose of QA/QC information is to ensure the user that the data enclosed are scientifically valid and are used to assess the laboratory's performance.

IV. ABBREVIATIONS/DEFINITIONS

NC = No criteria at this time

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10541
Lab Project ID : 605.09

IV. ABBREVIATIONS/DEFINITIONS

NA	=	Not applicable
ND	=	Non - detect
MG/KG	=	Milligrams per kilogram
UG/KG	=	Micrograms per kilogram
%REC	=	Percent Recovery
QCBLK	=	Method Blank
QCLCS	=	Laboratory Control Sample
CRDL	=	Customer Required Detection Limit
RPD	=	Relative Percent Difference
IDL	=	Instrument detection limit
DL	=	PQL
J	=	Estimated Value
NC	=	No criteria
E	=	Exceeds calibration
D	=	Diluted
U	=	Non - Detect

Quanterra holds to the following belief for Organic analyses:
The MDL is the minimum value at which a found concentration can be measured with confidence (99%) as being greater than zero. The MDL is not a limit of detection if a concentration is not measured. Therefore, the PQL is the practical limit of detection when a value is not measured.

Our SOP is written with a minimum value that would have been reported by software or reviewed by the analysts. For GC/MS analyses (method 8240, 8260, and 8270), Quanterra, St. Louis reports positive results for analytes less than the PQL, but greater than 1-ug/ml for 8270 and 1-ng/ml for 8240 and 8260 with a "J" flag, indication "estimated concentration." The software has thresholds which are set to reject results less than 1. This minimum reportable value is the MRV. GC analyses (Pest/PCB) requires a second column confirmation of positive results. Results less than the PQL are not reported since a valid confirmation analysis would not necessarily have been performed.

Quanterra believes that the appropriate value to be reported for all organic sample results that are non detected is the PQL value with a "U" flag. At Sandia's request, we have reported the MRV (minimum reportable value) or the MDL, whichever is greater, as the sample result with a "U" flag for any nondetected results for VOA and BNA. For GC analyses, (Pest/PCB), results less than the PQL are not reported. The MVR, or MDL is the PQL for Pest/PCB.

Quanterra Incorporated
13715 Rider Trail North
Earth City, Missouri 63045
314 298-8566 Telephone
314 298-8757 Fax

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10541
Lab Project ID : 605.09

V. NONCONFORMANCES

VOLATILES 8260

There are no nonconformances associated with this analysis.

SEMIVOLATILES

There are no nonconformances associated with this analysis.

METALS & MERCURY

There are no nonconformances associated with this analysis.

VI. COMMENTS

VOLATILES 8260

027843-01/265S:150E (10541-002)gave a slightly low response for 1,4-dichlorobenzene-d4 internal standard per the CLP SOW criteria. Re-analysis gave a similar result. Both analyses are reported.

Please refer to E-mail correspondence regarding surrogate recoveries on the hard copy report. The hard copy will be revised to accommodate this information, but at the present time only the found value is reflected on the hard copy. We have supplied the missing information on a Form II. The EDD contains all of the information for surrogate recoveries.

SEMIVOLATILES

Please refer to E-mail correspondence regarding surrogate recoveries on the hard copy report. The hard copy will be revised to accommodate this information, but at the present time only the found value is reflected on the hard copy. We have supplied the missing information on a Form II. The EDD contains all of the information for surrogate recoveries.

METALS & MERCURY

There are no comments associated with this analysis.

Memorandum

TO: Kathy Becker

FROM: Diane Mueller

DATE: 3/12/96

SUBJECT: AR/COC 04893

Attached are the following:

Signed and dated copy of AR/COC 04893

Quanterra's in-house COC (Login Number 10541) which can be used as a cross reference for client and lab sample I.D's

Signed and dated Quanterra Condition Upon Receipt

Preliminary Invoice

On March 9, 1996, one (1) cooler was received at Quanterra, St. Louis. The temperature of this cooler was 4° C.

TAT requested is Normal turn = 30 days

ANALYSIS REQUEST AND CHAIN OF CUSTODY

Internal Lab Batch No. _____

PAGE 1 OF 1

AR/COC- 04893

SF 2001-COC (6-95)

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM13 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0225

Date Samples Shipped: 3-8-96
Carrier/Waybill No.: A 60044
Lab Contact: Dianne Meuller
Lab Destination: Quanterra St. Louis
SMO Contact/Phone: Pam Poissant 845-0402
Send Report to SMO: Yes, Pam Poissant

Contract No.: AT-2780
Case No.: 36
SMO Authorization: [illegible]
Bill to: Sandia National Laboratories, Supplier Services Department, P.O. Box 5800 MS 0154, Albuquerque, NM 87185-0154

Location Tech Area 374 Building N/A Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	VOC (8260)	Pb, Ba, Ni, Zn, Tl, Mn								Lab Sample ID
027842-01	2705: 50E	6"	76	3/5/96 9:[illegible]am	S	G	4oz	None	G	SA	X									
027842-02	"	6"	76	3/5/96 9:[illegible]am	S	G	8oz	None	G	SA		X								
027843-01	2655: 150E	6"	76	3/5/96 9:25am	S	G	4oz	None	G	SA	X									
027843-02	"	6"	76	3/5/96 9:25am	S	G	8oz	None	G	SA		X								
027844-01	3105: 100E	6"	76	3/5/96 9:35am	S	G	4oz	None	G	SA	X									
027844-02	"	6"	76	3/5/96 9:35am	S	G	8oz	None	G	SA		X								
027845-01	3655: 50E	6"	76	3/5/96 9:50am	S	G	4oz	None	G	SA	X									
027845-02	"	6"	76	3/5/96 9:50am	S	G	8oz	None	G	SA		X								
027846-01	3655: 150E	6"	76	3/5/96 9:55am	S	G	4oz	None	G	SA	X									
027846-02	"	6"	76	3/5/96 9:55am	S	G	8oz	None	G	SA		X								

RMMA ☒ Yes ☐ No Ref. No. _____

Sample Disposal ☐ Return to Client ☒ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date _____

Special Instructions/QC Requirements: Will be [illegible] by 04894

Abnormal Conditions on Receipt

Sample Team Members	Name	Signature	Init	Company/Organization/Phone
	Jerry Peace	[signature]	JP	SNL/7585/284-2472
	Tim Goecking	[signature]	TG	GRAM/7785/281-2563
	Mike McVey	[signature]	MM	GRAM/7585/284-2551

	Org.	Date	Time
1. Relinquished by [signature]	7585	3/8/96	1000
1. Received by [signature]	SNL 7513	3/8/96	1300
2. Relinquished by [signature]	SNL 7513	3/8/96	1400
2. Received by [signature]	Quanterra	3-9-96	0840
3. Relinquished by			
3. Received by			
4. Relinquished by			
4. Received by			
5. Relinquished by			
5. Received by			
6. Relinquished by			
6. Received by			

WHITE - T[illegible] company Samples, L[illegible]tory Copy BLUE- To Accompany Samples, Return to SMO YELLOW [illegible]O Suspense Copy PINK- Field Copy

Quanterra March 11, 1996 02:51 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10541

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by: S. Fournier PM Review: Karley A. Franceschi

Sample Header Template:

Sample No. / #	Client ID / Comments / Container Type	C-Matrix / Analysis	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No. (Container Numbers:% Filled)
Data:								
10541-001	027842-01/270S:50E	Soil	05-MAR-96 09:10	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-010
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	01-APR-96	05-SEP-96	S4E		(219446:100)
1		VOA/8260/Q4	S COLD	01-APR-96	19-MAR-96	S4E		(219446:100)
10541-002	027843-01/265S:150E	Soil	05-MAR-96 09:25	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-009
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	01-APR-96	05-SEP-96	S4E		(219447:100)
1		VOA/8260/Q4	S COLD	01-APR-96	19-MAR-96	S4E		(219447:100)
10541-003	027844-01/310S:100E	Soil	05-MAR-96 09:35	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-008
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	01-APR-96	05-SEP-96	S4E		(219448:100)
1		VOA/8260/Q4	S COLD	01-APR-96	19-MAR-96	S4E		(219448:100)
10541-004	027845-01/365S:50E	Soil	05-MAR-96 09:50	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-007
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	01-APR-96	05-SEP-96	S4E		(219449:100)
1		VOA/8260/Q4	S COLD	01-APR-96	19-MAR-96	S4E		(219449:100)
10541-005	027846-01/365S:150E	Soil	05-MAR-96 09:55	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-006
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	01-APR-96	05-SEP-96	S4E		(219450:100)
1		VOA/8260/Q4	S COLD	01-APR-96	19-MAR-96	S4E		(219450:100)
10541-006	027842-02/270S:50E	Soil	05-MAR-96 09:10	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-005
1	AW - Amber Glass-8oz	BNA/8270/Q4	S COLD	01-APR-96	19-MAR-96	S4E		(219451:100)
1		HG/7470/Q4	S COLD	01-APR-96	02-APR-96	S4E		(219451:100)
1		ICAPT/6010/Q4	S COLD	01-APR-96	01-SEP-96	S4E		(219451:100)
1		RAD/SCREEN/Q4	S COLD	01-APR-96	05-SEP-96	S4E		(219451:100)
10541-007	027843-02/265S:150E	Soil	05-MAR-96 09:25	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-004
1	AW - Amber Glass-8oz	BNA/8270/Q4	S COLD	01-APR-96	19-MAR-96	S4E		(219452:100)
1		HG/7470/Q4	S COLD	01-APR-96	02-APR-96	S4E		(219452:100)

3*=Sample has not been rad screened.

Quanterra March 11, 1996 02:51 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10541

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No.	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
Comments #	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
Data:								
1		ICAPT/6010/Q4	S	COLD	01-APR-96	01-SEP-96	S4E	(219452:100)
1		RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219452:100)
10541-008	027844-02/310S:100E	Soil	05-MAR-96 09:35	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-003
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219453:100)
1		HG/7470/Q4	S	COLD	01-APR-96	02-APR-96	S4E	(219453:100)
1		ICAPT/6010/Q4	S	COLD	01-APR-96	01-SEP-96	S4E	(219453:100)
1		RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219453:100)
10541-009	027845-02/365S:50E	Soil	05-MAR-96 09:50	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-002
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219454:100)
1		HG/7470/Q4	S	COLD	01-APR-96	02-APR-96	S4E	(219454:100)
1		ICAPT/6010/Q4	S	COLD	01-APR-96	01-SEP-96	S4E	(219454:100)
1		RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219454:100)
10541-010	027846-02/365S:150E	Soil	05-MAR-96 09:55	09-MAR-96 08:40	08-APR-96	FED EX	3*	R4767-001
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	01-APR-96	19-MAR-96	S4E	(219455:100)
1		HG/7470/Q4	S	COLD	01-APR-96	02-APR-96	S4E	(219455:100)
1		ICAPT/6010/Q4	S	COLD	01-APR-96	01-SEP-96	S4E	(219455:100)
1		RAD/SCREEN/Q4	S	COLD	01-APR-96	05-SEP-96	S4E	(219455:100)

3*=Sample has not been rad screened.

Quanterra
Environmental Services

COPIED BY: BW / DM
DATE: 3-9-96
TIME: 11:00
BY: BWB

Login No.: 10541-010

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Sandia.
Date: 3-9-96 Time: 08:40
Project No: 605.09
Initiated by: Gerger W Byd
Shipper/No: Fed Ex.
RFA/COC Numbers: 04893

Condition/Variance (Check all that apply):

1. ☐ Sample received broken/leaking.
2. ☐ Sample received without proper preservative.
   - ☐ Cooler temperature not within 4°C ± 2°C
     Record temperature: _____
   - ☐ pH _____
   - ☐ other: _____
3. ☐ Sample received in improper container.
4. ☐ Sample received without proper paperwork. Explain: _____
5. ☐ Paperwork received without sample.
   - ☐ No sample ID on sample container.
7. ☐ Custody tape disturbed/broken/missing.
8. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
9. ☐ All coolers on airbill not received with shipment.
10. ☐ Other (explain below): _____

☑ No variances were noted during sample receipt. Cooler Temperature Upon Receipt: 4°C

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____
☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is".
☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: (or designate) Gerger W Byd Date: 3-9-96
ct Management Review: Kathy A Hemsfelt Date: 3-11-96

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 11/24/95

file 10541
10577

Mueller, Diane

To: Pam Puissant
Subject: Hardcopy report for Organic Analysis

Pam, ARCOC 04893 (login 10541) will be shipped out by Fed-ex the today. We ran into a little problem with the hardcopy report in regards to the surrogates. The only value hardcopy report is set for at present time for surrogates in the found value. All of the information is contained in the EDD. Please refer to Mike Franks below.
For ARCOC 04893 (login10541)due out today and ARCOC 04892 (login 10577) due to Sandia on April 12, 1996, we will leave the hardcopy report as is and will supply the missing information on a seperate forms.

If you have any questions, please call.

From: Franks, Mike
To: Mueller, Diane
Cc: Darnell, Darren; Giacopelli, Kathy
Subject: SANDIA NAT. LAB.
Date: Friday, April 05, 1996 10:47AM

ISSUE : SURROGATES ON THE HARD-COPY REPORT

SURROGATES ARE TO BE REPORTED LIKE LCS/DCS SAMPLES. i.e., WITH SPIKE ADDED AMOUNTS, UPPER CONTROL LIMIT, LOWER CONTROL, FOUND AMOUNT, AND PERCENT RECOVERY.

HOWEVER, I DID NOT TAKE THIS INTO CONSIDERATION WHILE THE HARD-COPY REPORT WAS BEING FORMATTED. THEREFORE, THE ONLY VALUES CONTAINED ON THE HARD-COPY REPORT FOR SURROGATES IS THE FOUND VALUE (OR RESULT). THE OTHER ITEMS MENTIONED ARE IN THE EDD.

FOR THE SAKE OF GETTING THIS REPORT (10541) OUT TODAY, WE WILL LEAVE THE REPORT AS IS, ALSO WE WILL SEND A FORM II ALONG WITH THE REPORT (FOR %REC.). THE REPORT WILL HAVE TO BE REVISED AT A LATER DATE (POSSIBLY WHEN I RETURN FROM VACATION)

MIKE

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: QUANTERRA MO Contract: 605-09

Lab Code: ITMO Case No.: S54106 SAS No.: SDG No.: 10541

Level: (low/med) LOW

Analyst		EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
			50	50	50	75	75	75		
JO	01	10541-006	81	71	78	88	85	83	0	0
	02	10541-007	78	69	81	90	87	75	0	0
	03	10541-008	79	72	89	88	86	63	0	0
	04	10541-009	76	70	79	84	83	64	0	0
	05	10541-010	74	65	52	82	77	66	0	0
	06	SSPK01A	77	68	65	87	84	84	0	0
	07	SSPK01B	80	67	62	90	84	84	0	0
	08	SBLK01	76	68	70	88	84	85	0	0

-006 027842-02
-007 027843-02
-008 027844-02
-009 027845-02
-0 ~~01~~ 027846-01

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

Need True Values for Surrogates

~~Missing MDL Values~~

37192
12266

FORM II SV-2

1/87 Rev.

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027842-02/270S:50E
Lab Sample ID : 10541-006

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.1	1	13-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.1	1	13-MAR-96	19-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.1	1	13-MAR-96	19-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.1	1	13-MAR-96	19-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.1	1	13-MAR-96	19-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.1	1	13-MAR-96	19-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.1	1	13-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30.1	1	13-MAR-96	19-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.1	1	13-MAR-96	19-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.1	1	13-MAR-96	19-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.1	1	13-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.1	1	13-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30.1	1	13-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.1	1	13-MAR-96	19-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027842-02/270S:50E
Lab Sample ID : 10541-006

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.1	1	13-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.1	1	13-MAR-96	19-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.1	1	13-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Acenaphthylene	30.1	1	13-MAR-96	19-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.1	1	13-MAR-96	19-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.1	1	13-MAR-96	19-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.1	1	13-MAR-96	19-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.1	1	13-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30.1	1	13-MAR-96	19-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027842-02/270S:50E
Lab Sample ID : 10541-006

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.1	1	13-MAR-96	19-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.1	1	13-MAR-96	19-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30.1	1	13-MAR-96	19-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.1	1	13-MAR-96	19-MAR-96	36	150	J	330	UG/KG	
Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.1	1	13-MAR-96	19-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.1	1	13-MAR-96	19-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.1	1	13-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30.1	1	13-MAR-96	19-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.1	1	13-MAR-96	19-MAR-96	57	34	J	330	UG/KG	
di-N-OctylPhthalate	30.1	1	13-MAR-96	19-MAR-96	52	74	J	330	UG/KG	
Benzo(b)Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.1	1	13-MAR-96	19-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.1	1	13-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.1	1	13-MAR-96	19-MAR-96		41			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027842-02/270S:50E
Lab Sample ID : 10541-006

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.1	1	13-MAR-96	19-MAR-96		36			UG/KG	
Terphenyl-d14	30.1	1	13-MAR-96	19-MAR-96		39			UG/KG	
Phenol-d5	30.1	1	13-MAR-96	19-MAR-96		66			UG/KG	
2-Fluorophenol	30.1	1	13-MAR-96	19-MAR-96		64			UG/KG	
2,4,6-Tribromophenol	30.1	1	13-MAR-96	19-MAR-96		62			UG/KG	

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Client Sample ID : 027843-02/265S:150E
Lab Sample ID : 10541-007

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.1	1	13-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.1	1	13-MAR-96	19-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.1	1	13-MAR-96	19-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.1	1	13-MAR-96	19-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.1	1	13-MAR-96	19-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.1	1	13-MAR-96	19-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.1	1	13-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30.1	1	13-MAR-96	19-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.1	1	13-MAR-96	19-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.1	1	13-MAR-96	19-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.1	1	13-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.1	1	13-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30.1	1	13-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.1	1	13-MAR-96	19-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	30	ND	U	330	UG/KG	

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P.O. Box 5130
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Client Sample ID : 027843-02/265S:150E
Lab Sample ID : 10541-007

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.1	1	13-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.1	1	13-MAR-96	19-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.1	1	13-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Acenaphthylene	30.1	1	13-MAR-96	19-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.1	1	13-MAR-96	19-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.1	1	13-MAR-96	19-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.1	1	13-MAR-96	19-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.1	1	13-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30.1	1	13-MAR-96	19-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	

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P.O. Box 5130
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Client Sample ID : 027843-02/265S:150E
Lab Sample ID : 10541-007

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.1	1	13-MAR-96	19-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.1	1	13-MAR-96	19-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30.1	1	13-MAR-96	19-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.1	1	13-MAR-96	19-MAR-96	36	160	J	330	UG/KG	
Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	38*	ND	U	330	UG/KG	
Pyrene	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.1	1	13-MAR-96	19-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.1	1	13-MAR-96	19-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.1	1	13-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30.1	1	13-MAR-96	19-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.1	1	13-MAR-96	19-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.1	1	13-MAR-96	19-MAR-96	52	70	J	330	UG/KG	
Benzo(b)Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.1	1	13-MAR-96	19-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.1	1	13-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.1	1	13-MAR-96	19-MAR-96		39			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027843-02/265S:150E
Lab Sample ID : 10541-007

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.1	1	13-MAR-96	19-MAR-96		35			UG/KG	
Terphenyl-d14	30.1	1	13-MAR-96	19-MAR-96		41			UG/KG	
Phenol-d5	30.1	1	13-MAR-96	19-MAR-96		68			UG/KG	
2-Fluorophenol	30.1	1	13-MAR-96	19-MAR-96		65			UG/KG	
2,4,6-Tribromophenol	30.1	1	13-MAR-96	19-MAR-96		56			UG/KG	

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P.O. Box 5130
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Client Sample ID : 027844-02/310S:100E
Lab Sample ID : 10541-008

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.1	1	13-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.1	1	13-MAR-96	19-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.1	1	13-MAR-96	19-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.1	1	13-MAR-96	19-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.1	1	13-MAR-96	19-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.1	1	13-MAR-96	19-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.1	1	13-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30.1	1	13-MAR-96	19-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.1	1	13-MAR-96	19-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.1	1	13-MAR-96	19-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.1	1	13-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.1	1	13-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30.1	1	13-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.1	1	13-MAR-96	19-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	30	ND	U	330	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027844-02/310S:100E
Lab Sample ID : 10541-008

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.1	1	13-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.1	1	13-MAR-96	19-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.1	1	13-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Acenaphthylene	30.1	1	13-MAR-96	19-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.1	1	13-MAR-96	19-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.1	1	13-MAR-96	19-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.1	1	13-MAR-96	19-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.1	1	13-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30.1	1	13-MAR-96	19-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	

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Client Sample ID : 027844-02/310S:100E
Lab Sample ID : 10541-008

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.1	1	13-MAR-96	19-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.1	1	13-MAR-96	19-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30.1	1	13-MAR-96	19-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.1	1	13-MAR-96	19-MAR-96	36	140	J	330	UG/KG	
Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.1	1	13-MAR-96	19-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.1	1	13-MAR-96	19-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.1	1	13-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30.1	1	13-MAR-96	19-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.1	1	13-MAR-96	19-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.1	1	13-MAR-96	19-MAR-96	52	72	J	330	UG/KG	
Benzo(b)Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.1	1	13-MAR-96	19-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.1	1	13-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.1	1	13-MAR-96	19-MAR-96		40			UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
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Client Sample ID : 027844-02/310S:100E
Lab Sample ID : 10541-008

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.1	1	13-MAR-96	19-MAR-96		36			UG/KG	
Terphenyl-d14	30.1	1	13-MAR-96	19-MAR-96		45			UG/KG	
Phenol-d5	30.1	1	13-MAR-96	19-MAR-96		66			UG/KG	
2-Fluorophenol	30.1	1	13-MAR-96	19-MAR-96		65			UG/KG	
2,4,6-Tribromophenol	30.1	1	13-MAR-96	19-MAR-96		47			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027845-02/365S:50E
Lab Sample ID : 10541-009

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.2	1	13-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.2	1	13-MAR-96	19-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.2	1	13-MAR-96	19-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.2	1	13-MAR-96	19-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.2	1	13-MAR-96	19-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.2	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.2	1	13-MAR-96	19-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.2	1	13-MAR-96	19-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.2	1	13-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.2	1	13-MAR-96	19-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.2	1	13-MAR-96	19-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.2	1	13-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30.2	1	13-MAR-96	19-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.2	1	13-MAR-96	19-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.2	1	13-MAR-96	19-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.2	1	13-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.2	1	13-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.2	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30.2	1	13-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.2	1	13-MAR-96	19-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.2	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.2	1	13-MAR-96	19-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027845-02/365S:50E
Lab Sample ID : 10541-009

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.2	1	13-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.2	1	13-MAR-96	19-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.2	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.2	1	13-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.2	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.2	1	13-MAR-96	19-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.2	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Acenaphthylene	30.2	1	13-MAR-96	19-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.2	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.2	1	13-MAR-96	19-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.2	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.2	1	13-MAR-96	19-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.2	1	13-MAR-96	19-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.2	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.2	1	13-MAR-96	19-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.2	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.2	1	13-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30.2	1	13-MAR-96	19-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.2	1	13-MAR-96	19-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.2	1	13-MAR-96	19-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.2	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.2	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027845-02/365S:50E
Lab Sample ID : 10541-009

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.2	1	13-MAR-96	19-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.2	1	13-MAR-96	19-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.2	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30.2	1	13-MAR-96	19-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30.2	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.2	1	13-MAR-96	19-MAR-96	36	93	J	330	UG/KG	
Fluoranthene	30.2	1	13-MAR-96	19-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30.2	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.2	1	13-MAR-96	19-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.2	1	13-MAR-96	19-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.2	1	13-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30.2	1	13-MAR-96	19-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.2	1	13-MAR-96	19-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.2	1	13-MAR-96	19-MAR-96	52	72	J	330	UG/KG	
Benzo(b)Fluoranthene	30.2	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.2	1	13-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.2	1	13-MAR-96	19-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.2	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.2	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.2	1	13-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.2	1	13-MAR-96	19-MAR-96		38			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027845-02/365S:50E
Lab Sample ID : 10541-009

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.2	1	13-MAR-96	19-MAR-96		35			UG/KG	
Terphenyl-d14	30.2	1	13-MAR-96	19-MAR-96		40			UG/KG	
Phenol-d5	30.2	1	13-MAR-96	19-MAR-96		63			UG/KG	
2-Fluorophenol	30.2	1	13-MAR-96	19-MAR-96		62			UG/KG	
2,4,6-Tribromophenol	30.2	1	13-MAR-96	19-MAR-96		48			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027846-02/365S:150E
Lab Sample ID : 10541-010

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.1	1	13-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.1	1	13-MAR-96	19-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.1	1	13-MAR-96	19-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.1	1	13-MAR-96	19-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.1	1	13-MAR-96	19-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.1	1	13-MAR-96	19-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.1	1	13-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30.1	1	13-MAR-96	19-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.1	1	13-MAR-96	19-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.1	1	13-MAR-96	19-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.1	1	13-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.1	1	13-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30.1	1	13-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.1	1	13-MAR-96	19-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.1	1	13-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027846-02/365S:150E
Lab Sample ID : 10541-010

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.1	1	13-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.1	1	13-MAR-96	19-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.1	1	13-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Acenaphthylene	30.1	1	13-MAR-96	19-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.1	1	13-MAR-96	19-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.1	1	13-MAR-96	19-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.1	1	13-MAR-96	19-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.1	1	13-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30.1	1	13-MAR-96	19-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.1	1	13-MAR-96	19-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.1	1	13-MAR-96	19-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.1	1	13-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027846-02/365S:150E
Lab Sample ID : 10541-010

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.1	1	13-MAR-96	19-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.1	1	13-MAR-96	19-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30.1	1	13-MAR-96	19-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.1	1	13-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30.1	1	13-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.1	1	13-MAR-96	19-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.1	1	13-MAR-96	19-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.1	1	13-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30.1	1	13-MAR-96	19-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.1	1	13-MAR-96	19-MAR-96	57	73	J	330	UG/KG	
di-N-OctylPhthalate	30.1	1	13-MAR-96	19-MAR-96	52	67	J	330	UG/KG	
Benzo(b)Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.1	1	13-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.1	1	13-MAR-96	19-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.1	1	13-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.1	1	13-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.1	1	13-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.1	1	13-MAR-96	19-MAR-96		37			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027846-02/365S:150E
Lab Sample ID : 10541-010

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.1	1	13-MAR-96	19-MAR-96		33			UG/KG	
Terphenyl-d14	30.1	1	13-MAR-96	19-MAR-96		26			UG/KG	
Phenol-d5	30.1	1	13-MAR-96	19-MAR-96		62			UG/KG	
2-Fluorophenol	30.1	1	13-MAR-96	19-MAR-96		58			UG/KG	
2,4,6-Tribromophenol	30.1	1	13-MAR-96	19-MAR-96		50			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK93974-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30	1	14-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30	1	14-MAR-96	19-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30	1	14-MAR-96	19-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30	1	14-MAR-96	19-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30	1	14-MAR-96	19-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30	1	14-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30	1	14-MAR-96	19-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30	1	14-MAR-96	19-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30	1	14-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30	1	14-MAR-96	19-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30	1	14-MAR-96	19-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30	1	14-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30	1	14-MAR-96	19-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30	1	14-MAR-96	19-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30	1	14-MAR-96	19-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30	1	14-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30	1	14-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30	1	14-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30	1	14-MAR-96	19-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30	1	14-MAR-96	19-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30	1	14-MAR-96	19-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30	1	14-MAR-96	19-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK93974-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30	1	14-MAR-96	19-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30	1	14-MAR-96	19-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30	1	14-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30	1	14-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30	1	14-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30	1	14-MAR-96	19-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30	1	14-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Acenaphthylene	30	1	14-MAR-96	19-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30	1	14-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30	1	14-MAR-96	19-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30	1	14-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30	1	14-MAR-96	19-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30	1	14-MAR-96	19-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30	1	14-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30	1	14-MAR-96	19-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30	1	14-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30	1	14-MAR-96	19-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30	1	14-MAR-96	19-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30	1	14-MAR-96	19-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30	1	14-MAR-96	19-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30	1	14-MAR-96	19-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30	1	14-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK93974-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30	1	14-MAR-96	19-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30	1	14-MAR-96	19-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30	1	14-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30	1	14-MAR-96	19-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30	1	14-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30	1	14-MAR-96	19-MAR-96	36	ND	U	330	UG/KG	
Fluoranthene	30	1	14-MAR-96	19-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30	1	14-MAR-96	19-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30	1	14-MAR-96	19-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30	1	14-MAR-96	19-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30	1	14-MAR-96	19-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30	1	14-MAR-96	19-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30	1	14-MAR-96	19-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30	1	14-MAR-96	19-MAR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30	1	14-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30	1	14-MAR-96	19-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30	1	14-MAR-96	19-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30	1	14-MAR-96	19-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30	1	14-MAR-96	19-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30	1	14-MAR-96	19-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30	1	14-MAR-96	19-MAR-96		38			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK93974-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30	1	14-MAR-96	19-MAR-96		34			UG/KG	
Terphenyl-d14	30	1	14-MAR-96	19-MAR-96		35			UG/KG	
Phenol-d5	30	1	14-MAR-96	19-MAR-96		66			UG/KG	
2-Fluorophenol	30	1	14-MAR-96	19-MAR-96		63			UG/KG	
2,4,6-Tribromophenol	30	1	14-MAR-96	19-MAR-96		64			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS93974-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Phenol	30	1	13-MAR-96	19-MAR-96	2500	1900	UG/KG	76	112	5	
2-Chlorophenol	30	1	13-MAR-96	19-MAR-96	2500	1900	UG/KG	77	134	23	
1,4-Dichlorobenzene	30	1	13-MAR-96	19-MAR-96	1700	1200	UG/KG	71	121	19	
N-nitroso-di-n-propylamine	30	1	13-MAR-96	19-MAR-96	1700	1100	UG/KG	67	209	1	
1,2,4-Trichlorobenzene	30	1	13-MAR-96	19-MAR-96	1700	1300	UG/KG	79	142	43	
4-Chloro-3-Methylphenol	30	1	13-MAR-96	19-MAR-96	2500	2000	UG/KG	82	147	22	
Acenaphthene	30	1	13-MAR-96	19-MAR-96	1700	1000	UG/KG	63	142	50	
4-Nitrophenol	30	1	13-MAR-96	19-MAR-96	2500	1300	UG/KG	54	132	1	
2,4-Dinitrotoluene	30	1	13-MAR-96	19-MAR-96	1700	1200	UG/KG	74	132	33	
Pentachlorophenol	30	1	13-MAR-96	19-MAR-96	2500	1600	UG/KG	62	176	14	
Pyrene	30	1	13-MAR-96	19-MAR-96	1700	1200	UG/KG	70	116	52	
Nitrobenzene-d5	30	1	13-MAR-96	19-MAR-96	50	39	UG/KG	77	120	23	
2-Fluorobiphenyl	30	1	13-MAR-96	19-MAR-96	50	34	UG/KG	68	115	30	
Terphenyl-d14	30	1	13-MAR-96	19-MAR-96	50	33	UG/KG	65	137	18	
Phenol-d5	30	1	13-MAR-96	19-MAR-96	75	65	UG/KG	87	113	24	
2-Fluorophenol	30	1	13-MAR-96	19-MAR-96	75	63	UG/KG	84	121	25	
2,4,6-Tribromophenol	30	1	13-MAR-96	19-MAR-96	75	63	UG/KG	84	122	19	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS93974-2

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93974

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Phenol	30	1	13-MAR-96	19-MAR-96	2500	2000	UG/KG	79	35	0	4
2-Chlorophenol	30	1	13-MAR-96	19-MAR-96	2500	2000	UG/KG	80	50	0	4
1,4-Dichlorobenzene	30	1	13-MAR-96	19-MAR-96	1700	1200	UG/KG	72	27	0	1
N-nitroso-di-n-propylamine	30	1	13-MAR-96	19-MAR-96	1700	1100	UG/KG	69	38	0	3
1,2,4-Trichlorobenzene	30	1	13-MAR-96	19-MAR-96	1700	1300	UG/KG	79	23	0	0
4-Chloro-3-Methylphenol	30	1	13-MAR-96	19-MAR-96	2500	2000	UG/KG	82	33	0	0
Acenaphthene	30	1	13-MAR-96	19-MAR-96	1700	1000	UG/KG	61	19	0	3
4-Nitrophenol	30	1	13-MAR-96	19-MAR-96	2500	1400	UG/KG	55	50	0	2
2,4-Dinitrotoluene	30	1	13-MAR-96	19-MAR-96	1700	1200	UG/KG	73	47	0	1
Pentachlorophenol	30	1	13-MAR-96	19-MAR-96	2500	1500	UG/KG	59	47	0	5
Pyrene	30	1	13-MAR-96	19-MAR-96	1700	1200	UG/KG	72	36	0	3
Nitrobenzene-d5	30	1	13-MAR-96	19-MAR-96	50	40	UG/KG	80	120	23	
2-Fluorobiphenyl	30	1	13-MAR-96	19-MAR-96	50	34	UG/KG	67	115	30	
Terphenyl-d14	30	1	13-MAR-96	19-MAR-96	50	31	UG/KG	62	137	18	
Phenol-d5	30	1	13-MAR-96	19-MAR-96	75	68	UG/KG	90	113	24	
2-Fluorophenol	30	1	13-MAR-96	19-MAR-96	75	63	UG/KG	84	121	25	
2,4,6-Tribromophenol	30	1	13-MAR-96	19-MAR-96	75	63	UG/KG	84	122	19	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027842-01/270S:50E
Lab Sample ID : 10541-001

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	12	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027842-01/270S:50E
Lab Sample ID : 10541-001

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027842-01/270S:50E
Lab Sample ID : 10541-001

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		45			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		40			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		45			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027843-01/265S:150E
Lab Sample ID : 10541-002

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	12	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027843-01/265S:150E
Lab Sample ID : 10541-002

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027843-01/265S:150E
Lab Sample ID : 10541-002

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		45			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		43			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		44			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027843-01/265S:150E
Lab Sample ID : 10541-002RE

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	13	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027843-01/265S:150E
Lab Sample ID : 10541-002RE

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027843-01/265S:150E
Lab Sample ID : 10541-002RE

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		59			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		52			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		56			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027844-01/310S:100E
Lab Sample ID : 10541-003

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	12	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027844-01/310S:100E
Lab Sample ID : 10541-003

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027844-01/310S:100E
Lab Sample ID : 10541-003

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		55			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		46			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		52			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
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Albuquerque, NM 87185-5130

Client Sample ID : 027845-01/365S:50E
Lab Sample ID : 10541-004

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	13	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027845-01/365S:50E
Lab Sample ID : 10541-004

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027845-01/365S:50E
Lab Sample ID : 10541-004

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		47			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		43			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		48			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027846-01/365S:150E
Lab Sample ID : 10541-005

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	12	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027846-01/365S:150E
Lab Sample ID : 10541-005

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027846-01/365S:150E
Lab Sample ID : 10541-005

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		50			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		47			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		51			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94452-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94452-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94452-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		52			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		42			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		51			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94528-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94528-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94528-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		54			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		43			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		52			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94452-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	50	49	UG/KG	98	234	1	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	50	37	UG/KG	73	157	71	
Benzene	5	1	19-MAR-96	19-MAR-96	50	38	UG/KG	75	151	37	
Toluene	5	1	19-MAR-96	19-MAR-96	50	36	UG/KG	71	150	47	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	50	35	UG/KG	70	160	37	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96	50	46	UG/KG	93	117	81	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96	50	40	UG/KG	80	121	74	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96	50	42	UG/KG	85	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94452-2

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94452

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	50	56	UG/KG	112	22	0	13
Trichloroethene	5	1	19-MAR-96	19-MAR-96	50	42	UG/KG	83	24	0	13
Benzene	5	1	19-MAR-96	19-MAR-96	50	43	UG/KG	85	21	0	12
Toluene	5	1	19-MAR-96	19-MAR-96	50	41	UG/KG	82	21	0	14
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	50	41	UG/KG	82	21	0	16
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96	50	50	UG/KG	100	117	81	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96	50	41	UG/KG	82	121	74	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96	50	46	UG/KG	91	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94528-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	50	58	UG/KG	116	234	1	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	50	44	UG/KG	87	157	71	
Benzene	5	1	19-MAR-96	19-MAR-96	50	45	UG/KG	91	151	37	
Toluene	5	1	19-MAR-96	19-MAR-96	50	43	UG/KG	85	150	47	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	50	40	UG/KG	80	160	37	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96	50	54	UG/KG	107	117	81	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96	50	44	UG/KG	88	121	74	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96	50	51	UG/KG	101	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94528-2

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	50	56	UG/KG	112	22	0	4
Trichloroethene	5	1	19-MAR-96	19-MAR-96	50	42	UG/KG	85	24	0	2
Benzene	5	1	19-MAR-96	19-MAR-96	50	43	UG/KG	86	21	0	6
Toluene	5	1	19-MAR-96	19-MAR-96	50	40	UG/KG	80	21	0	6
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	50	40	UG/KG	80	21	0	0
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96	50	52	UG/KG	104	117	81	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96	50	42	UG/KG	84	121	74	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96	50	47	UG/KG	94	120	80	

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: QUANTERRA MO Contract: 605-09

Lab Code: ITMO Case No.: V54101 SAS No.: SDG No.: 10541

Level: (low/med) LOW

Amelwt

		EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
027842-01	RER 01	10541-001	90	80	89	0	0
027843-01	RER 02	10541-002	89	85	88	0	0
" "	KRB 03	10541-002RE	117	104	113	0	0
	RER 04	10541-003	110	91	103	0	0
027844-01	RER 05	10541-004	93	85	95	0	0
027845-01	KRB 06	10541-005	100	93	102	0	0
	RER 07	VSPK01A	93	80	85	0	0
027846-01	RER 08	VSPK01B	100	82	91	0	0
	KRB 09	VSPK02A	107	88	101	0	0
	KRB 10	VSPK02B	104	84	94	0	0
	RER 11	VBLK01	104	84	101	0	0
	KRB 12	VBLK02	107	85	103	0	0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(81-117)
SMC2 (BFB)	= Bromofluorobenzene	(74-121)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

True = 50 ug/Kg

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027842-02/270S:50E
Lab Sample ID : 10541-006

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93998

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	13-MAR-96	13-MAR-96	2.7	12100		20.0	MG/KG
Antimony	1	1	13-MAR-96	13-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	13-MAR-96	13-MAR-96	0.46	3.7	J	1.0	MG/KG
Barium	1	1	13-MAR-96	13-MAR-96	0.050	68.1		20.0	MG/KG
Beryllium	1	1	13-MAR-96	13-MAR-96	0.060	0.65		0.50	MG/KG
Cadmium	1	1	13-MAR-96	13-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	13-MAR-96	13-MAR-96	1.5	2590		500	MG/KG
Chromium	1	1	13-MAR-96	13-MAR-96	0.44	10.2		1.0	MG/KG
Cobalt	1	1	13-MAR-96	13-MAR-96	0.36	3.0	J	5.0	MG/KG
Copper	1	1	13-MAR-96	13-MAR-96	0.62	4.7		2.5	MG/KG
Iron	1	1	13-MAR-96	13-MAR-96	0.73	11100		10.0	MG/KG
Lead	1	1	13-MAR-96	13-MAR-96	0.17	5.4	J	0.30	MG/KG
Magnesium	1	1	13-MAR-96	13-MAR-96	9.8	2690		500	MG/KG
Manganese	1	1	13-MAR-96	13-MAR-96	0.11	114		1.5	MG/KG
Nickel	1	1	13-MAR-96	13-MAR-96	1.6	7.5		4.0	MG/KG
Potassium	1	1	13-MAR-96	13-MAR-96	201	2400		500	MG/KG
Selenium	1	1	13-MAR-96	13-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	13-MAR-96	13-MAR-96	0.50	0.85	J	1.0	MG/KG
Sodium	1	1	13-MAR-96	13-MAR-96	5.7	66.0	J	100	MG/KG
Thallium	1	1	13-MAR-96	13-MAR-96	0.50	0.65	J	1.0	MG/KG
Vanadium	1	1	13-MAR-96	13-MAR-96	0.62	20.0		5.0	MG/KG
Zinc	1	1	13-MAR-96	13-MAR-96	0.22	25.7		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027843-02/265S:150E
Lab Sample ID : 10541-007

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93998

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	13-MAR-96	13-MAR-96	2.7	12300		20.0	MG/KG
Antimony	1	1	13-MAR-96	13-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	13-MAR-96	13-MAR-96	0.46	3.4	J	1.0	MG/KG
Barium	1	1	13-MAR-96	13-MAR-96	0.050	84.1		20.0	MG/KG
Beryllium	1	1	13-MAR-96	13-MAR-96	0.060	0.62		0.50	MG/KG
Cadmium	1	1	13-MAR-96	13-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	13-MAR-96	13-MAR-96	1.5	2460		500	MG/KG
Chromium	1	1	13-MAR-96	13-MAR-96	0.44	11.5		1.0	MG/KG
Cobalt	1	1	13-MAR-96	13-MAR-96	0.36	3.6	J	5.0	MG/KG
Copper	1	1	13-MAR-96	13-MAR-96	0.62	4.7		2.5	MG/KG
Iron	1	1	13-MAR-96	13-MAR-96	0.73	11700		10.0	MG/KG
Lead	1	1	13-MAR-96	13-MAR-96	0.17	6.8	J	0.30	MG/KG
Magnesium	1	1	13-MAR-96	13-MAR-96	9.8	2610		500	MG/KG
Manganese	1	1	13-MAR-96	13-MAR-96	0.11	150		1.5	MG/KG
Nickel	1	1	13-MAR-96	13-MAR-96	1.6	7.3		4.0	MG/KG
Potassium	1	1	13-MAR-96	13-MAR-96	201	2510		500	MG/KG
Selenium	1	1	13-MAR-96	13-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	13-MAR-96	13-MAR-96	0.50	0.96	J	1.0	MG/KG
Sodium	1	1	13-MAR-96	13-MAR-96	5.7	78.2	J	100	MG/KG
Thallium	1	1	13-MAR-96	13-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	13-MAR-96	13-MAR-96	0.62	19.6		5.0	MG/KG
Zinc	1	1	13-MAR-96	13-MAR-96	0.22	28.5		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027844-02/310S:100E
Lab Sample ID : 10541-008

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93998

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	13-MAR-96	13-MAR-96	2.7	5750		20.0	MG/KG
Antimony	1	1	13-MAR-96	13-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	13-MAR-96	13-MAR-96	0.46	2.7	J	1.0	MG/KG
Barium	1	1	13-MAR-96	13-MAR-96	0.050	128		20.0	MG/KG
Beryllium	1	1	13-MAR-96	13-MAR-96	0.060	0.40	J	0.50	MG/KG
Cadmium	1	1	13-MAR-96	13-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	13-MAR-96	13-MAR-96	1.5	33800		500	MG/KG
Chromium	1	1	13-MAR-96	13-MAR-96	0.44	6.8		1.0	MG/KG
Cobalt	1	1	13-MAR-96	13-MAR-96	0.36	2.6	J	5.0	MG/KG
Copper	1	1	13-MAR-96	13-MAR-96	0.62	4.9		2.5	MG/KG
Iron	1	1	13-MAR-96	13-MAR-96	0.73	7800		10.0	MG/KG
Lead	1	1	13-MAR-96	13-MAR-96	0.17	3.7	J	0.30	MG/KG
Magnesium	1	1	13-MAR-96	13-MAR-96	9.8	2930		500	MG/KG
Manganese	1	1	13-MAR-96	13-MAR-96	0.11	110		1.5	MG/KG
Nickel	1	1	13-MAR-96	13-MAR-96	1.6	6.2		4.0	MG/KG
Potassium	1	1	13-MAR-96	13-MAR-96	201	1020		500	MG/KG
Selenium	1	1	13-MAR-96	13-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	13-MAR-96	13-MAR-96	0.50	0.80	J	1.0	MG/KG
Sodium	1	1	13-MAR-96	13-MAR-96	5.7	63.2	J	100	MG/KG
Thallium	1	1	13-MAR-96	13-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	13-MAR-96	13-MAR-96	0.62	16.4		5.0	MG/KG
Zinc	1	1	13-MAR-96	13-MAR-96	0.22	17.6		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027845-02/365S:50E
Lab Sample ID : 10541-009

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93998

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	13-MAR-96	13-MAR-96	2.7	9860		20.0	MG/KG
Antimony	1	1	13-MAR-96	13-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	13-MAR-96	13-MAR-96	0.46	3.2	J	1.0	MG/KG
Barium	1	1	13-MAR-96	13-MAR-96	0.050	82.8		20.0	MG/KG
Beryllium	1	1	13-MAR-96	13-MAR-96	0.060	0.54		0.50	MG/KG
Cadmium	1	1	13-MAR-96	13-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	13-MAR-96	13-MAR-96	1.5	2120		500	MG/KG
Chromium	1	1	13-MAR-96	13-MAR-96	0.44	9.7		1.0	MG/KG
Cobalt	1	1	13-MAR-96	13-MAR-96	0.36	3.1	J	5.0	MG/KG
Copper	1	1	13-MAR-96	13-MAR-96	0.62	4.6		2.5	MG/KG
Iron	1	1	13-MAR-96	13-MAR-96	0.73	10600		10.0	MG/KG
Lead	1	1	13-MAR-96	13-MAR-96	0.17	5.5	J	0.30	MG/KG
Magnesium	1	1	13-MAR-96	13-MAR-96	9.8	2330		500	MG/KG
Manganese	1	1	13-MAR-96	13-MAR-96	0.11	124		1.5	MG/KG
Nickel	1	1	13-MAR-96	13-MAR-96	1.6	7.7		4.0	MG/KG
Potassium	1	1	13-MAR-96	13-MAR-96	201	1790		500	MG/KG
Selenium	1	1	13-MAR-96	13-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	13-MAR-96	13-MAR-96	0.50	0.86	J	1.0	MG/KG
Sodium	1	1	13-MAR-96	13-MAR-96	5.7	63.8	J	100	MG/KG
Thallium	1	1	13-MAR-96	13-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	13-MAR-96	13-MAR-96	0.62	19.3		5.0	MG/KG
Zinc	1	1	13-MAR-96	13-MAR-96	0.22	23.1		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027846-02/365S:150E
Lab Sample ID : 10541-010

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 93998

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	13-MAR-96	13-MAR-96	2.7	7240		20.0	MG/KG
Antimony	1	1	13-MAR-96	13-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	13-MAR-96	13-MAR-96	0.46	2.1	J	1.0	MG/KG
Barium	1	1	13-MAR-96	13-MAR-96	0.050	58.4		20.0	MG/KG
Beryllium	1	1	13-MAR-96	13-MAR-96	0.060	0.41	J	0.50	MG/KG
Cadmium	1	1	13-MAR-96	13-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	13-MAR-96	13-MAR-96	1.5	1900		500	MG/KG
Chromium	1	1	13-MAR-96	13-MAR-96	0.44	8.9		1.0	MG/KG
Cobalt	1	1	13-MAR-96	13-MAR-96	0.36	3.3	J	5.0	MG/KG
Copper	1	1	13-MAR-96	13-MAR-96	0.62	4.0		2.5	MG/KG
Iron	1	1	13-MAR-96	13-MAR-96	0.73	9580		10.0	MG/KG
Lead	1	1	13-MAR-96	13-MAR-96	0.17	7.5	J	0.30	MG/KG
Magnesium	1	1	13-MAR-96	13-MAR-96	9.8	1720		500	MG/KG
Manganese	1	1	13-MAR-96	13-MAR-96	0.11	161		1.5	MG/KG
Nickel	1	1	13-MAR-96	13-MAR-96	1.6	6.2		4.0	MG/KG
Potassium	1	1	13-MAR-96	13-MAR-96	201	1650		500	MG/KG
Selenium	1	1	13-MAR-96	13-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	13-MAR-96	13-MAR-96	0.50	0.72	J	1.0	MG/KG
Sodium	1	1	13-MAR-96	13-MAR-96	5.7	57.5	J	100	MG/KG
Thallium	1	1	13-MAR-96	13-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	13-MAR-96	13-MAR-96	0.62	15.8		5.0	MG/KG
Zinc	1	1	13-MAR-96	13-MAR-96	0.22	26.8		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK93998-1

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93998

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	13-MAR-96	13-MAR-96	2.7	4.4	J	20.0	MG/KG
Antimony	1	1	13-MAR-96	13-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	13-MAR-96	13-MAR-96	0.46	ND	U	1.0	MG/KG
Barium	1	1	13-MAR-96	13-MAR-96	0.050	-0.12	J	20.0	MG/KG
Beryllium	1	1	13-MAR-96	13-MAR-96	0.060	ND	U	0.50	MG/KG
Cadmium	1	1	13-MAR-96	13-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	13-MAR-96	13-MAR-96	1.5	2.2	J	500	MG/KG
Chromium	1	1	13-MAR-96	13-MAR-96	0.44	ND	U	1.0	MG/KG
Cobalt	1	1	13-MAR-96	13-MAR-96	0.36	ND	U	5.0	MG/KG
Copper	1	1	13-MAR-96	13-MAR-96	0.62	ND	U	2.5	MG/KG
Iron	1	1	13-MAR-96	13-MAR-96	0.73	1.6	J	10.0	MG/KG
Lead	1	1	13-MAR-96	13-MAR-96	0.17	ND	U	0.30	MG/KG
Magnesium	1	1	13-MAR-96	13-MAR-96	9.8	-15.3	J	500	MG/KG
Manganese	1	1	13-MAR-96	13-MAR-96	0.11	ND	U	1.5	MG/KG
Nickel	1	1	13-MAR-96	13-MAR-96	1.6	ND	U	4.0	MG/KG
Potassium	1	1	13-MAR-96	13-MAR-96	201	ND	U	500	MG/KG
Selenium	1	1	13-MAR-96	13-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	13-MAR-96	13-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	13-MAR-96	13-MAR-96	5.7	-7.1	J	100	MG/KG
Thallium	1	1	13-MAR-96	13-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	13-MAR-96	13-MAR-96	0.62	-0.95	J	5.0	MG/KG
Zinc	1	1	13-MAR-96	13-MAR-96	0.22	-0.23	J	2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS93998-1

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93998

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Aluminum	1	1	13-MAR-96	13-MAR-96	6760	7330	MG/KG	108	143	45	
Arsenic	1	1	13-MAR-96	13-MAR-96	82.5	96.3	MG/KG	117	149	49	
Barium	1	1	13-MAR-96	13-MAR-96	105	110	MG/KG	105	131	70	
Beryllium	1	1	13-MAR-96	13-MAR-96	159	168	MG/KG	106	140	64	
Cadmium	1	1	13-MAR-96	13-MAR-96	128	133	MG/KG	104	144	52	
Calcium	1	1	13-MAR-96	13-MAR-96	2540	2750	MG/KG	108	141	63	
Chromium	1	1	13-MAR-96	13-MAR-96	114	121	MG/KG	106	141	54	
Cobalt	1	1	13-MAR-96	13-MAR-96	182	199	MG/KG	110	142	60	
Copper	1	1	13-MAR-96	13-MAR-96	116	119	MG/KG	102	145	57	
Lead	1	1	13-MAR-96	13-MAR-96	87.6	90.9	MG/KG	104	142	53	
Magnesium	1	1	13-MAR-96	13-MAR-96	1970	2180	MG/KG	110	142	60	
Manganese	1	1	13-MAR-96	13-MAR-96	225	251	MG/KG	112	135	70	
Nickel	1	1	13-MAR-96	13-MAR-96	176	186	MG/KG	105	146	55	
Potassium	1	1	13-MAR-96	13-MAR-96	1900	2140	MG/KG	112	132	62	
Selenium	1	1	13-MAR-96	13-MAR-96	107	117	MG/KG	109	149	52	
Silver	1	1	13-MAR-96	13-MAR-96	71.6	76.8	MG/KG	107	145	45	
Sodium	1	1	13-MAR-96	13-MAR-96	1140	1150	MG/KG	101	120	80	
Thallium	1	1	13-MAR-96	13-MAR-96	130	183	MG/KG	141	163	37	
Vanadium	1	1	13-MAR-96	13-MAR-96	87.1	103	MG/KG	118	135	70	
Zinc	1	1	13-MAR-96	13-MAR-96	143	155	MG/KG	108	149	54	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS93998-2

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93998

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Aluminum	1	1	13-MAR-96	13-MAR-96	6760	6600	MG/KG	98	20	0	10.6
Arsenic	1	1	13-MAR-96	13-MAR-96	82.5	94.1	MG/KG	114	20	0	2.3
Barium	1	1	13-MAR-96	13-MAR-96	105	106	MG/KG	101	20	0	3.8
Beryllium	1	1	13-MAR-96	13-MAR-96	159	160	MG/KG	101	20	0	5
Cadmium	1	1	13-MAR-96	13-MAR-96	128	125	MG/KG	98	20	0	6
Calcium	1	1	13-MAR-96	13-MAR-96	2540	2560	MG/KG	101	20	0	7.1
Chromium	1	1	13-MAR-96	13-MAR-96	114	112	MG/KG	98	20	0	7.9
Cobalt	1	1	13-MAR-96	13-MAR-96	182	186	MG/KG	102	20	0	6.9
Copper	1	1	13-MAR-96	13-MAR-96	116	114	MG/KG	98	20	0	4.1
Lead	1	1	13-MAR-96	13-MAR-96	87.6	87.6	MG/KG	100	20	0	3.7
Magnesium	1	1	13-MAR-96	13-MAR-96	1970	2010	MG/KG	102	20	0	7.9
Manganese	1	1	13-MAR-96	13-MAR-96	225	232	MG/KG	103	20	0	8
Nickel	1	1	13-MAR-96	13-MAR-96	176	172	MG/KG	98	20	0	7.4
Potassium	1	1	13-MAR-96	13-MAR-96	1900	1930	MG/KG	101	20	0	10.3
Selenium	1	1	13-MAR-96	13-MAR-96	107	114	MG/KG	106	20	0	2.9
Silver	1	1	13-MAR-96	13-MAR-96	71.6	73.3	MG/KG	102	20	0	4.7
Sodium	1	1	13-MAR-96	13-MAR-96	1140	1120	MG/KG	99	20	0	2.3
Thallium	1	1	13-MAR-96	13-MAR-96	130	177	MG/KG	136	20	0	3.4
Vanadium	1	1	13-MAR-96	13-MAR-96	87.1	91.1	MG/KG	105	20	0	11.9
Zinc	1	1	13-MAR-96	13-MAR-96	143	151	MG/KG	106	20	0	2.3

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS93998-3

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93998

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Antimony	1	1	13-MAR-96	13-MAR-96	100	99.5	MG/KG	100	120	80	
Iron	1	1	13-MAR-96	13-MAR-96	100	105	MG/KG	105	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS93998-4

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 93998

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Antimony	1	1	13-MAR-96	13-MAR-96	100	96.5	MG/KG	96	20	0	3.1
Iron	1	1	13-MAR-96	13-MAR-96	100	102	MG/KG	102	20	0	2.3

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027842-02/270S:50E
Lab Sample ID : 10541-006

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94004

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	13-MAR-96	13-MAR-96	0.05	ND	U	0.10	MG/KG

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Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027843-02/265S:150E
Lab Sample ID : 10541-007

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94004

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	13-MAR-96	13-MAR-96	0.05	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027844-02/310S:100E
Lab Sample ID : 10541-008

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94004

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	13-MAR-96	13-MAR-96	0.05	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027845-02/365S:50E
Lab Sample ID : 10541-009

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94004

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	13-MAR-96	13-MAR-96	0.05	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027846-02/365S:150E
Lab Sample ID : 10541-010

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : Soil
Sample Date : 05-MAR-96
Receipt Date : 09-MAR-96
COC Number : 04893
SDG : 10541
QC Batch No. : 94004

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	13-MAR-96	13-MAR-96	0.05	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94004-1

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94004

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	13-MAR-96	13-MAR-96	0.05	ND	U	0.10	MG/KG

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Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94004-1

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94004

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Mercury	.2	1	13-MAR-96	13-MAR-96	2.3	2.4	MG/KG	104	156	48	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94004-2

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : Soil
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94004

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Mercury	.2	1	13-MAR-96	13-MAR-96	2.3	2.2	MG/KG	96	20	0	6.9

SMO ANALYTICAL DATA ROUTING FORM

Project Name: MWL Risk

Case Number: 3618500

SNL Task Leader: J Peace

Org/Mail Stop: 7585/1148

SMO Project Coordinator: Puissant

Sample Ship Date: 3/6/96

ARCOC	Lab	Lab ID
04894	7713	600157

Date Results Received:

Preliminary: _____ Final: 3/8/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: _____ Reviewer: _____

Date Review Complete: _____ Signature: _____

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 3/13/96 Transmitted To: Peace

Transmitted By: [illegible] Filed In Record Center: [illegible]

Comments: _____

SANDIA NATIONAL LABORATORIES
ENVIRONMENTAL RESTORATION
RECORDS CENTER
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INFORMATION ONLY

ANALYSIS REQUEST AND CHAIN OF CUSTODY

Internal Lab Batch No. 600157

PAGE 1 OF 1

AR/COC- 04894

SF 2001-COC (6-95)

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/3 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0226

Date Samples Shipped: 3-6-96
Carrier/Waybill No.: HC
Lab Contact: Fernando Dominguez
Lab Destination: 7713 C.C.F.
SMO Contact/Phone: Pam Puissant 848-0402
Send Report to SMO: Mack

Contract No.: N/A
Case No.: 3618.500
SMO Authorization:
Bill to: Sandia National Laboratories
Supplier Services Department
P.D. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Location — Tech Area 3 — Building N/A — Room N/A

Reference LOV (available at SMO)

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	Parameter & Method Requested: Gamma Spec	Lab Sample ID
027842-03	270S: 50E	6"	76	3/5/96 9:10am	S	P	500ml	None	G	SA	X	
027843-03	265S: 150E	6"	76	3/5/96 9:25am	S	P	500ml	None	G	SA	X	
027844-03	310S: 100E	6"	76	3/5/96 9:35am	S	P	500ml	None	G	SA	X	
027845-03	365S: 50E	6"	76	3/5/96 9:50am	S	P	500ml	None	G	SA	X	
027846-03	365S: 150E	6"	76	3/5/96 9:55am	S	P	500ml	None	G	SA	X	
027851-03	50S: 300E	6"	76	3/5/96 10:15am	S	P	500ml	None	G	SA	X	
027852-03	430S: 0E	6"	76	3/5/96 10:30am	S	P	500ml	None	G	SA	X	

RMMA ☒ Yes ☐ No Ref. No.

Sample Disposal ☒ Return to Client ☐ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date

Sample Tracking
Date Entered (mm/dd/yy): 3/11/96
Entered by: Anne
QC Inits.

Special Instructions/QC Requirements
Extended Count for low MDAs
Will be released by 04893

Abnormal Conditions on Receipt

Sample Team Members

Name	Signature	Init	Company/Organization/Phone
Jerry Peace		JP	SNL/7585/284-2472
Tim Goering		TG	GRAM/7585/284-2563
Mike McVey		MM	GRAM/7585/284-2591

	Org.	Date	Time
1. Relinquished by	7585	3/6/96	0950
1. Received by	7513	3/6/96	0950
2. Relinquished by	7513	3/6/96	1034
2. Received by	SNL 7713	3/6/96	1034
3. Relinquished by	SNL 7713	3/8/96	0910
3. Received by	7513/SMO	3/8/96	0910

	Org.	Date	Time
4. Relinquished by			
4. Received by			
5. Relinquished by			
5. Received by			
6. Relinquished by			
6. Received by			

WHITE - To Laboratory Accompany Samples, BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

ANALYSIS REQUEST / CHAIN OF CUSTODY

Internal Lab Batch No. 60157

PAGE 1 OF 1

AR/COC- 04894

SF 2001-COC (6-95)

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/3 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0225

Date Samples Shipped: 3/6/96
Carrier/Waybill No.: HC
Lab Contact: Fernando Dominguez
Lab Destination: 7713 C.C.F.
SMO Contact/Phone: Pam Puissant 848-0402
Send Report to SMO: Mack

Contract No.: N/A
Case No.: 3619.500
SMO Authorization: [signature]
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Location: Tech Area 3; Building N/A; Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	Gamma Spec								Lab Sample ID
027842-03	2705: 50E	6"	76	3/5/96 9:10am	S	P	500ml	None	G	SA	X								
027843-03	2655: 150E	6"	76	3/5/96 9:25am	S	P	500ml	None	G	SA	X								
027844-03	3105: 100E	6"	76	3/5/96 9:35am	S	P	500ml	None	G	SA	X								
027845-03	3655: 50E	6"	76	3/5/96 9:50am	S	P	500ml	None	G	SA	X								
027846-03	3655: 150E	6"	76	3/5/96 9:55am	S	P	500ml	None	G	SA	X								
027851-03	505: 300E	6"	76	3/5/96 10:15am	S	P	500ml	None	G	SA	X								
027852-03	4305: 0E	6"	76	3/5/96 10:30am	S	P	500ml	None	G	SA	X								

RMMA ☒ Yes ☐ No Ref. No.

Sample Disposal ☒ Return to Client ☐ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date

Sample Tracking: Date Entered (mm/dd/yy) 3/11/96; Entered by: [initials]; QC Inits

Special Instructions/QC Requirements: Extended Count for low MDAs. Will be released by 04893

Abnormal Conditions on Receipt

Sample Team Members	Name	Signature	Init	Company/Organization/Phone
	Jerry Peace	[signature]	JP	SNL 7585/284-2472
	Tim Goering	[signature]	TG	GRAM/7585/284-2563
	Mike McVey	[signature]	MM	GRAM/7585/284-2591

	Org.	Date	Time		Org.	Date	Time
1. Relinquished by	7585	3/6/96	0950	4. Relinquished by			
1. Received by	7513	3/6/96	0950	4. Received by			
2. Relinquished by	07513	3/6/96	1034	5. Relinquished by			
2. Received by	SNL 7713	3/6/96	1034	5. Received by			
3. Relinquished by	SNL 7713	3/8/96	0910	6. Relinquished by			
3. Received by	7513/SMO	3/8/96	0910	6. Received by			

WHITE - To Accompany Samples, Laboratory Copy; BLUE - To Accompany Samples, Return to SMO; YELLOW - SMO Suspense Copy; PINK - Field Copy

Sandia National Laboratories
Radiation Protection Sample Diagnostics

Sample Analysis Request Form

To be completed by Customer

Shaded areas are for RPSD use only

Customer: Jerry Peace
Organization: 7585
Project Location: MWL
Phone: 284-2472
Date Results Needed: 3/7/96
Suspect Isotopes:
Other Information: COC 04894

Hazards/Special Instructions:
Extended Count for low MDAs 100hi

Batch Log Number: 600157
Logged By: mew

Analysis Type:
- [x] Gamma Spec
- [ ] H-3
- [ ] Alpha/Beta
- [ ] Alpha Spec
- [ ] Total U
- [ ] Other

LIMS Login
Results Faxed
Sample Disposal

Customer Sample ID	Sample Type	Date/Time Collected	Sample Volume	Requested Analysis	RPSD Sample ID	Rad Scan CPM	Sample Weight	Remarks
027842-03	Solid	3-5-96 9:10am	500ml	Gamma Spec	01	<300	944g	
027843-03		3-5-96 9:25am			02		1017g	
027844-03		3-5-96 9:35am			03		1084g	
027845-03		3-5-96 9:50am			04		980g	
027846-03		3-5-96 9:55am			05		961	
027851-03		3-5-96 10:15am			06		913	
027852-03		3-5-96 10:30am			07		915g	
LCS		1-NOV-90			08			

Relinquished by		Date 3/6/96	Time 1038	Received by		Date 3/6/96	Time 1034
Relinquished by		Date 3/8/96	Time 0910	Received by		Date 3/8/96	Time 0910
Relinquished by		Date	Time	Received by		Date	Time
Relinquished by		Date	Time	Received by		Date	Time

Sandia National Laboratories

Albuquerque, New Mexico 87185-1305

date: March 08, 1995

to: D.L. McLaughlin, MS-1305 (7513)

H. Seeley

from: Howard Seeley, MS-1331 (7513)

subject: Samples from COC 04894: 027842, 027843, 027844, 027845, 027846, 027851, and 027852.

Per the license agreement of General Engineering Laboratory (GEL) and the State of South Carolina, License Number 362, the above referenced sample, contained on COC 04894, may be sent to the aforementioned laboratory without violating their license agreement.

If you have any questions, please contact me at 848-0846.

HS:7513:hws

Copy to:
(1095) K. A. Roberts, 7713
Dayfile

FAX

Sample Management Office 870B
Sandia National Labratories
KAFB East
Krtlnd

Date 3/8/96

Number of pages including cover sheet 18

To:
Howard Seelinger

Phone 884-5056

Fax Phone 837-6876

CC:

From:
Mack McLaughlin,
Edward Rankin, or
David Biswell.

Phone (505) 845-0867

Fax Phone (505) 844-4976

REMARKS:

☐ Urgent ☐ For your review ☐ Reply ASAP ☐ Please comment

ANALYSIS REQUEST AND CHAIN OF CUSTODY

AR/COC- 0394

SF 2001-COC (6-95)

Internal Lab Batch No. 600157

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/3 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0226

Date Samples Shipped: 3/6/96
Carrier/Waybill No.: HC
Lab Contact: Fernando Dominguez
Lab Destination: 7713 C.C.F.
SMO Contact/Phone: Pam Puissant 848-0402
Send Report to SMO: Mack

Contract No.: N/A
Case No.: 3618.500
SMO Authorization:
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Parameter & Method Requested

Location — Tech Area 3 — Building N/A — Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	Gamma Spec	Lab Sample ID
027842-03	270S: 50E	6"	76	3/5/96 9:10am	S	P	500ml	None	G	SA	X	
027843-03	265S: 150E	6"	76	3/5/96 9:25am	S	P	500ml	None	G	SA	X	
027844-03	310S: 100E	6"	76	3/5/96 9:35am	S	P	500ml	None	G	SA	X	
027845-03	365S: 50E	6"	76	3/5/96 9:50am	S	P	500ml	None	G	SA	X	
027846-03	365S: 150E	6"	76	3/5/96 9:55am	S	P	500ml	None	G	SA	X	
027851-03	50S: 300E	6"	76	3/5/96 10:15am	S	P	500ml	None	G	SA	X	
027852-03	430S: 0E	6"	76	3/5/96 10:30am	S	P	500ml	None	G	SA	X	

Reference LOV (available at SMO)

RMMA ☒ Yes ☐ No Ref. No.

Sample Disposal ☒ Return to Client ☐ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date

Sample Tracking — Date Entered (mm/dd/yy): — Entered by:

QC Inits:

Special Instructions/QC Requirements: Extended Count for low MDAs. Will be released by 04893

Abnormal Conditions on Receipt

Sample Team Members	Name	Signature	Init	Company/Organization/Phone
	Jerry Peace		JP	SNL/7585/284-2472
	Tim Goering		TG	GRAM/7585/284-2563
	Mike McVey		MM	GRAM/7585/284-2591

	Org.	Date	Time		Org.	Date	Time
1. Relinquished by	7585	3/6/96	0950	4. Relinquished by			
1. Received by	7513	3/6/96	0950	4. Received by			
2. Relinquished by	7573	3/6/96	1034	5. Relinquished by			
2. Received by	SNL 7713	3/6/96	1034	5. Received by			
3. Relinquished by	SNL 7713	3/8/96	0910	6. Relinquished by			
3. Received by	7513/SMO	3/8/96	0910	6. Received by			

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

```
*****************************************************************
*                  Sandia National Laboratories                 *
*   Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                    3-07-96  2:51:14 PM                        *
*****************************************************************
*                                  *Dept 7714  Survey No._____*
* Reviewed by:_____ 3/7/96         *Use Only   Surveyed by:_____*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027842-03
Lab Sample ID : 60015701

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 2SMAR
Sample Quantity : 944.000 gram
Sample Date/Time : 3-05-96 9:10:00 AM
Acquire Start Date : 3-07-96 1:07:29 PM
Detector Name : LAB02
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	2.43
TH-234	Not Detected	--------	3.86E-01
RA-226	6.76E-01	4.33E-01	6.70E-01
PB-214	2.71E-01	5.22E-02	4.59E-02
BI-214	2.49E-01	5.48E-02	5.70E-02
TH-232	5.15E-01	2.44E-01	1.22E-01
RA-228	5.39E-01	1.34E-01	1.06E-01
AC-228	5.48E-01	1.09E-01	8.11E-02
TH-228	5.03E-01	1.76E-01	3.35E-01
RA-224	4.92E-01	1.35E-01	8.21E-02
PB-212	4.97E-01	8.62E-02	3.14E-02
BI-212	4.66E-01	2.03E-01	2.86E-01
TL-208	4.88E-01	8.25E-02	5.31E-02
U-235	Not Detected	--------	1.72E-01
TH-231	Not Detected	--------	1.96
PA-231	Not Detected	--------	1.04
TH-227	Not Detected	--------	2.61E-01
RA-223	Not Detected	--------	1.47E-01
RN-219	Not Detected	--------	2.78E-01
PB-211	Not Detected	--------	6.48E-01
TL-207	Not Detected	--------	1.03E+01
AM-241	Not Detected	--------	3.90E-01
PU-239	Not Detected	--------	3.27E+02
NP-237	Not Detected	--------	1.90E-01
PA-233	Not Detected	--------	4.15E-02
TH-229	Not Detected	--------	2.09E-01

[Summary Report] - Sample ID: 60015701

Nuclide	Activity (pCi/gram)	2S Error	MDA	
AG-110m	Not Detected	--------	2.28E-02	
AR-41	Not Detected	--------	1.33E+07	
BA-133	Not Detected	--------	4.17E-02	
BA-140	Not Detected	--------	7.96E-02	
CD-109	Not Detected	--------	6.56E-01	
CD-115	Not Detected	--------	9.13E-02	
CE-139	Not Detected	--------	2.21E-02	
CE-141	Not Detected	--------	4.05E-02	
CE-144	Not Detected	--------	1.75E-01	
CO-56	~~1.28E-02~~	~~1.17E-02~~	1.84E-02	Not detected 3/7/96
CO-57	Not Detected	--------	2.35E-02	
CO-58	Not Detected	--------	2.27E-02	
CO-60	Not Detected	--------	2.61E-02	
CR-51	Not Detected	--------	1.70E-01	
CS-134	Not Detected	--------	3.39E-02	
CS-137	Not Detected	--------	2.56E-02	
CU-64	Not Detected	--------	9.12E+01	
EU-152	Not Detected	--------	6.22E-02	
EU-154	Not Detected	--------	1.35E-01	
EU-155	Not Detected	--------	1.01E-01	
FE-59	Not Detected	--------	5.26E-02	
GD-153	Not Detected	--------	8.31E-02	
HG-203	Not Detected	--------	1.43E-02	
I-131	Not Detected	--------	2.42E-02	
IN-115m	Not Detected	--------	1.62E+02	
IR-192	Not Detected	--------	1.98E-02	
K-40	1.21E+01	1.67	3.49E-01	
LA-140	Not Detected	--------	6.60E-02	
MN-52	Not Detected	--------	2.80E-02	
MN-54	~~5.48E-03~~	~~5.02E-03~~	1.01E-02	Not detected 3/7/96
MN-56	Not Detected	--------	3.58E+04	
MO-99	Not Detected	--------	3.10E-01	
NA-22	Not Detected	--------	3.09E-02	
NA-24	Not Detected	--------	2.71E-01	
NB-95	Not Detected	--------	1.85E-01	
ND-147	Not Detected	--------	1.48E-01	
NI-57	Not Detected	--------	9.39E-02	
BE-07	Not Detected	--------	1.75E-01	
RU-103	Not Detected	--------	1.88E-02	
RU-106	Not Detected	--------	2.08E-01	
SB-122	Not Detected	--------	5.07E-02	
SB-124	Not Detected	--------	2.29E-02	
SB-125	Not Detected	--------	6.10E-02	
SC-46	Not Detected	--------	3.69E-02	
SR-85	Not Detected	--------	2.74E-02	
TA-182	Not Detected	--------	1.09E-01	
TA-183	Not Detected	--------	4.53E-01	
TE-132	Not Detected	--------	3.23E-02	
TL-201	Not Detected	--------	1.88E-01	
XE-133	Not Detected	--------	1.80E-01	
Y-88	Not Detected	--------	1.79E-02	
ZN-65	Not Detected	--------	7.28E-02	
ZR-95	Not Detected	--------	4.10E-02	

```
*****************************************************************
*                  Sandia National Laboratories                 *
*   Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                    3-07-96  3:30:35 PM                        *
*****************************************************************
*                                  *Dept 7714  Survey No._____*
* Reviewed by: 3/7/96              *Use Only   Surveyed by:_____*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027843-03
Lab Sample ID : 60015702

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 3SMAR
Sample Quantity : 1017.000 gram
Sample Date/Time : 3-05-96 9:25:00 AM
Acquire Start Date : 3-07-96 1:47:05 PM
Detector Name : LAB03
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	8.49E-01
TH-234	Not Detected	--------	3.43E-01
RA-226	7.94E-01	3.36E-01	4.73E-01
PB-214	4.40E-01	9.67E-02	5.39E-02
BI-214	3.39E-01	6.61E-02	4.73E-02
TH-232	4.76E-01	2.53E-01	1.88E-01
RA-228	5.58E-01	2.69E-01	1.29E-01
AC-228	5.47E-01	1.11E-01	7.67E-02
TH-228	3.10E-01	3.03E-01	4.76E-01
RA-224	5.25E-01	1.49E-01	6.09E-02
PB-212	5.38E-01	1.26E-01	2.67E-02
BI-212	7.02E-01	2.79E-01	3.81E-01
TL-208	5.04E-01	1.08E-01	4.72E-02
U-235	Not Detected	--------	1.28E-01
TH-231	Not Detected	--------	1.08
PA-231	Not Detected	--------	9.40E-01
TH-227	Not Detected	--------	2.57E-01
RA-223	Not Detected	--------	8.41E-02
RN-219	Not Detected	--------	2.64E-01
PB-211	Not Detected	--------	6.14E-01
TL-207	Not Detected	--------	1.14E+01
AM-241	Not Detected	--------	1.07E-01
PU-239	Not Detected	--------	2.39E+02
NP-237	Not Detected	--------	1.61E-01
PA-233	Not Detected	--------	4.16E-02
TH-229	Not Detected	--------	1.29E-01

[Summary Report] - Sample ID: 60015702

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	3.01E-02
AR-41	Not Detected	--------	1.89E+07
BA-133	Not Detected	--------	3.93E-02
BA-140	Not Detected	--------	8.92E-02
CD-109	Not Detected	--------	3.81E-01
CD-115	Not Detected	--------	9.56E-02
CE-139	Not Detected	--------	1.85E-02
CE-141	Not Detected	--------	3.00E-02
CE-144	Not Detected	--------	1.25E-01
CO-56	Not Detected	--------	2.39E-02
CO-57	Not Detected	--------	1.64E-02
CO-58	Not Detected	--------	2.60E-02
CO-60	Not Detected	--------	2.79E-02
CR-51	Not Detected	--------	1.71E-01
CS-134	Not Detected	--------	3.73E-02
CS-137	6.36E-02	1.70E-02	1.83E-02
CU-64	Not Detected	--------	1.11E+02
EU-152	Not Detected	--------	6.46E-02
EU-154	Not Detected	--------	1.36E-01
EU-155	Not Detected	--------	6.28E-02
FE-59	Not Detected	--------	5.91E-02
GD-153	Not Detected	--------	5.00E-02
HG-203	Not Detected	--------	2.05E-02
I-131	Not Detected	--------	2.51E-02
IN-115m	Not Detected	--------	1.80E+02
IR-192	Not Detected	--------	2.00E-02
K-40	1.32E+01	1.83	2.95E-01
LA-140	Not Detected	--------	5.83E-02
MN-52	Not Detected	--------	3.30E-02
MN-54	Not Detected	--------	2.91E-02
MN-56	Not Detected	--------	3.81E+04
MO-99	Not Detected	--------	3.43E-01
NA-22	Not Detected	--------	3.24E-02
NA-24	Not Detected	--------	3.07E-01
NB-95	Not Detected	--------	1.83E-01
ND-147	Not Detected	--------	1.71E-01
NI-57	Not Detected	--------	1.06E-01
BE-07	Not Detected	--------	1.87E-01
RU-103	Not Detected	--------	2.03E-02
RU-106	Not Detected	--------	2.19E-01
SB-122	Not Detected	--------	5.04E-02
SB-124	Not Detected	--------	2.54E-02
SB-125	Not Detected	--------	5.76E-02
SC-46	Not Detected	--------	4.13E-02
SR-85	Not Detected	--------	2.81E-02
TA-182	Not Detected	--------	1.21E-01
TA-183	Not Detected	--------	1.23E-01
TE-132	Not Detected	--------	2.82E-02
TL-201	Not Detected	--------	8.89E-02
XE-133	Not Detected	--------	9.75E-02
Y-88	Not Detected	--------	2.21E-02
ZN-65	Not Detected	--------	7.94E-02
ZR-95	Not Detected	--------	4.40E-02

```
*****************************************************************
*                  Sandia National Laboratories                 *
*   Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                    3-07-96  5:02:08 PM                        *
*****************************************************************
*                                *Dept 7714  Survey No._________*
* Reviewed by: 3/7/96            *Use Only   Surveyed by:_______*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027844-03
Lab Sample ID : 60015703

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 2SMAR
Sample Quantity : 1084.000 gram
Sample Date/Time : 3-05-96 9:35:00 AM
Acquire Start Date : 3-07-96 3:18:35 PM
Detector Name : LAB02
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	2.17
TH-234	Not Detected	--------	3.40E-01
RA-226	6.50E-01	2.35E-01	3.22E-01
PB-214	3.63E-01	7.29E-02	3.40E-02
BI-214	3.47E-01	6.11E-02	4.35E-02
TH-232	4.06E-01	2.14E-01	1.81E-01
RA-228	4.42E-01	1.66E-01	1.02E-01
AC-228	4.19E-01	8.71E-02	7.08E-02
TH-228	5.29E-01	1.04E-01	2.98E-01
RA-224	4.46E-01	1.18E-01	5.86E-02
PB-212	4.28E-01	8.30E-02	2.77E-02
BI-212	4.51E-01	1.87E-01	2.61E-01
TL-208	3.89E-01	7.29E-02	6.33E-02
U-235	Not Detected	--------	1.57E-01
TH-231	Not Detected	--------	1.81
PA-231	Not Detected	--------	9.58E-01
TH-227	Not Detected	--------	2.29E-01
RA-223	Not Detected	--------	1.39E-01
RN-219	Not Detected	--------	2.48E-01
PB-211	Not Detected	--------	5.79E-01
TL-207	Not Detected	--------	8.49
AM-241	Not Detected	--------	3.61E-01
PU-239	Not Detected	--------	3.01E+02
NP-237	Not Detected	--------	1.76E-01
PA-233	Not Detected	--------	3.89E-02
TH-229	Not Detected	--------	1.89E-01

[Summary Report] - Sample ID: 60015703

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.07E-02
AR-41	Not Detected	--------	2.53E+07
BA-133	Not Detected	--------	4.00E-02
BA-140	Not Detected	--------	7.39E-02
CD-109	Not Detected	--------	6.08E-01
CD-115	Not Detected	--------	8.48E-02
CE-139	Not Detected	--------	2.01E-02
CE-141	Not Detected	--------	3.76E-02
CE-144	Not Detected	--------	1.60E-01
CO-56	Not Detected	--------	2.29E-02
CO-57	Not Detected	--------	2.12E-02
CO-58	Not Detected	--------	2.08E-02
CO-60	Not Detected	--------	2.42E-02
CR-51	Not Detected	--------	1.58E-01
CS-134	Not Detected	--------	3.24E-02
CS-137	Not Detected	--------	2.34E-02
CU-64	Not Detected	--------	9.22E+01
EU-152	Not Detected	--------	5.51E-02
EU-154	Not Detected	--------	1.17E-01
EU-155	Not Detected	--------	9.31E-02
FE-59	Not Detected	--------	4.80E-02
GD-153	Not Detected	--------	7.44E-02
HG-203	Not Detected	--------	1.95E-02
I-131	Not Detected	--------	2.14E-02
IN-115m	Not Detected	--------	1.93E+02
IR-192	Not Detected	--------	1.82E-02
K-40	1.08E+01	1.49	3.04E-01
LA-140	Not Detected	--------	5.66E-02
MN-52	Not Detected	--------	2.62E-02
MN-54	Not Detected	--------	2.23E-02
MN-56	Not Detected	--------	5.26E+04
MO-99	Not Detected	--------	2.94E-01
NA-22	Not Detected	--------	2.63E-02
NA-24	Not Detected	--------	2.66E-01
NB-95	Not Detected	--------	1.64E-01
ND-147	Not Detected	--------	1.41E-01
NI-57	Not Detected	--------	8.37E-02
BE-07	Not Detected	--------	1.60E-01
RU-103	Not Detected	--------	1.80E-02
RU-106	Not Detected	--------	1.83E-01
SB-122	Not Detected	--------	4.73E-02
SB-124	Not Detected	--------	2.01E-02
SB-125	Not Detected	--------	5.30E-02
SC-46	Not Detected	--------	3.39E-02
SR-85	Not Detected	--------	2.38E-02
TA-182	Not Detected	--------	9.88E-02
TA-183	Not Detected	--------	4.24E-01
TE-132	Not Detected	--------	2.99E-02
TL-201	Not Detected	--------	1.72E-01
XE-133	Not Detected	--------	1.67E-01
Y-88	Not Detected	--------	1.84E-02
ZN-65	Not Detected	--------	6.57E-02
ZR-95	Not Detected	--------	3.69E-02

```
*****************************************************************
*                  Sandia National Laboratories                 *
*   Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                    3-07-96  5:19:21 PM                        *
*****************************************************************
*                                  *Dept 7714  Survey No._____*
* Reviewed by: 3/7/96              *Use Only   Surveyed by:_____*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027845-03
Lab Sample ID : 60015704

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 3SMAR
Sample Quantity : 980.000 gram
Sample Date/Time : 3-05-96 9:50:00 AM
Acquire Start Date : 3-07-96 3:30:49 PM
Detector Name : LAB03
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	8.98E-01
TH-234	4.96E-01	1.71E-01	2.35E-01
RA-226	1.05	3.38E-01	4.24E-01
PB-214	4.23E-01	9.42E-02	5.62E-02
BI-214	3.80E-01	7.21E-02	4.74E-02
TH-232	5.31E-01	2.69E-01	1.58E-01
RA-228	5.70E-01	1.49E-01	1.24E-01
AC-228	5.80E-01	1.18E-01	8.43E-02
TH-228	5.26E-01	2.99E-01	4.29E-01
RA-224	5.42E-01	1.56E-01	7.43E-02
PB-212	5.74E-01	1.27E-01	2.67E-02
BI-212	6.10E-01	2.43E-01	3.28E-01
TL-208	5.23E-01	1.02E-01	7.86E-02
U-235	Not Detected	--------	1.31E-01
TH-231	Not Detected	--------	1.09
PA-231	Not Detected	--------	9.88E-01
TH-227	Not Detected	--------	2.62E-01
RA-223	Not Detected	--------	8.78E-02
RN-219	Not Detected	--------	2.99E-01
PB-211	Not Detected	--------	6.69E-01
TL-207	Not Detected	--------	1.09E+01
AM-241	Not Detected	--------	1.11E-01
PU-239	Not Detected	--------	2.44E+02
NP-237	Not Detected	--------	1.68E-01
PA-233	Not Detected	--------	4.33E-02
TH-229	Not Detected	--------	1.32E-01

[Summary Report] - Sample ID: 60015704

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.41E-02
AR-41	Not Detected	--------	3.15E+07
BA-133	Not Detected	--------	4.06E-02
BA-140	Not Detected	--------	9.38E-02
CD-109	Not Detected	--------	4.35E-01
CD-115	Not Detected	--------	9.54E-02
CE-139	Not Detected	--------	1.85E-02
CE-141	Not Detected	--------	3.13E-02
CE-144	Not Detected	--------	1.30E-01
CO-56	Not Detected	--------	2.63E-02
CO-57	Not Detected	--------	1.65E-02
CO-58	Not Detected	--------	2.46E-02
CO-60	Not Detected	--------	2.98E-02
CR-51	Not Detected	--------	1.77E-01
CS-134	Not Detected	--------	3.82E-02
CS-137	Not Detected	--------	2.70E-02
CU-64	Not Detected	--------	1.18E+02
EU-152	Not Detected	--------	6.50E-02
EU-154	Not Detected	--------	1.40E-01
EU-155	Not Detected	--------	6.62E-02
FE-59	Not Detected	--------	5.82E-02
GD-153	Not Detected	--------	4.97E-02
HG-203	Not Detected	--------	2.17E-02
I-131	Not Detected	--------	2.50E-02
IN-115m	Not Detected	--------	2.16E+02
IR-192	Not Detected	--------	2.08E-02
K-40	1.25E+01	1.74	3.15E-01
LA-140	Not Detected	--------	7.65E-02
MN-52	Not Detected	--------	3.11E-02
MN-54	Not Detected	--------	2.69E-02
MN-56	Not Detected	--------	5.96E+04
MO-99	Not Detected	--------	3.48E-01
NA-22	Not Detected	--------	3.54E-02
NA-24	Not Detected	--------	3.31E-01
NB-95	Not Detected	--------	1.88E-01
ND-147	Not Detected	--------	1.72E-01
NI-57	Not Detected	--------	1.08E-01
BE-07	Not Detected	--------	1.90E-01
RU-103	Not Detected	--------	2.17E-02
RU-106	Not Detected	--------	2.13E-01
SB-122	Not Detected	--------	5.48E-02
SB-124	Not Detected	--------	2.46E-02
SB-125	Not Detected	--------	6.22E-02
SC-46	Not Detected	--------	4.18E-02
SR-85	Not Detected	--------	2.85E-02
TA-182	Not Detected	--------	1.22E-01
TA-183	Not Detected	--------	1.28E-01
TE-132	Not Detected	--------	2.90E-02
TL-201	Not Detected	--------	9.12E-02
XE-133	Not Detected	--------	9.95E-02
Y-88	Not Detected	--------	2.02E-02
ZN-65	Not Detected	--------	8.15E-02
ZR-95	Not Detected	--------	4.72E-02

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*****************************************************************
*                  Sandia National Laboratories                 *
*   Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                    3-07-96  6:59:22 PM                        *
*****************************************************************
*                                 *Dept 7714  Survey No._____*
* Reviewed by: 3/8/96             *Use Only   Surveyed by:_____*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027846-03
Lab Sample ID : 60015705

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 2SMAR
Sample Quantity : 961.000 gram
Sample Date/Time : 3-05-96 9:55:00 AM
Acquire Start Date : 3-07-96 5:04:29 PM
Detector Name : LAB02
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

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Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	2.53
TH-234	5.71E-01	2.70E-01	4.36E-01
RA-226	8.02E-01	4.00E-01	5.99E-01
PB-214	3.43E-01	6.62E-02	6.13E-02
BI-214	3.04E-01	5.74E-02	4.70E-02
TH-232	4.41E-01	2.17E-01	1.37E-01
RA-228	5.08E-01	1.31E-01	1.12E-01
AC-228	5.62E-01	1.11E-01	8.24E-02
TH-228	3.28E-01	1.49E-01	3.35E-01
RA-224	4.67E-01	1.27E-01	6.98E-02
PB-212	4.80E-01	8.34E-02	3.05E-02
BI-212	5.29E-01	2.11E-01	2.90E-01
TL-208	3.98E-01	8.31E-02	8.54E-02
U-235	Not Detected	--------	1.75E-01
TH-231	Not Detected	--------	2.00
PA-231	Not Detected	--------	1.08
TH-227	Not Detected	--------	2.56E-01
RA-223	Not Detected	--------	1.51E-01
RN-219	~~1.34E-01~~	~~2.63E-01~~	2.95E-01 not detected 3/8/96
PB-211	Not Detected	--------	6.74E-01
TL-207	Not Detected	--------	9.84
AM-241	Not Detected	--------	4.02E-01
PU-239	Not Detected	--------	3.26E+02
NP-237	Not Detected	--------	1.99E-01
PA-233	Not Detected	--------	4.26E-02
TH-229	Not Detected	--------	2.06E-01

[Summary Report] - Sample ID: 60015705

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	3.87E-02
AR-41	Not Detected	--------	4.74E+07
BA-133	Not Detected	--------	4.35E-02
BA-140	Not Detected	--------	8.56E-02
CD-109	Not Detected	--------	6.87E-01
CD-115	Not Detected	--------	9.33E-02
CE-139	Not Detected	--------	2.21E-02
CE-141	Not Detected	--------	4.15E-02
CE-144	Not Detected	--------	1.78E-01
CO-56	Not Detected	--------	2.53E-02
CO-57	Not Detected	--------	2.40E-02
CO-58	Not Detected	--------	2.24E-02
CO-60	Not Detected	--------	2.41E-02
CR-51	Not Detected	--------	1.77E-01
CS-134	Not Detected	--------	3.46E-02
CS-137	1.73E-01	3.22E-02	2.94E-02
CU-64	Not Detected	--------	1.11E+02
EU-152	Not Detected	--------	6.44E-02
EU-154	Not Detected	--------	1.27E-01
EU-155	Not Detected	--------	1.04E-01
FE-59	Not Detected	--------	5.18E-02
GD-153	Not Detected	--------	8.25E-02
HG-203	Not Detected	--------	2.24E-02
I-131	Not Detected	--------	2.53E-02
IN-115m	Not Detected	--------	2.60E+02
IR-192	Not Detected	--------	2.05E-02
K-40	1.26E+01	1.72	3.33E-01
LA-140	Not Detected	--------	6.07E-02
MN-52	Not Detected	--------	2.99E-02
MN-54	Not Detected	--------	2.39E-02
MN-56	Not Detected	--------	8.51E+04
MO-99	Not Detected	--------	3.02E-01
NA-22	Not Detected	--------	3.02E-02
NA-24	Not Detected	--------	3.19E-01
NB-95	Not Detected	--------	1.85E-01
ND-147	Not Detected	--------	1.64E-01
NI-57	Not Detected	--------	9.77E-02
BE-07	Not Detected	--------	1.83E-01
RU-103	Not Detected	--------	2.13E-02
RU-106	Not Detected	--------	1.99E-01
SB-122	Not Detected	--------	5.24E-02
SB-124	Not Detected	--------	2.23E-02
SB-125	Not Detected	--------	6.32E-02
SC-46	Not Detected	--------	3.74E-02
SR-85	Not Detected	--------	2.69E-02
TA-182	Not Detected	--------	1.11E-01
TA-183	Not Detected	--------	4.78E-01
TE-132	Not Detected	--------	3.34E-02
TL-201	Not Detected	--------	2.03E-01
XE-133	Not Detected	--------	1.93E-01
Y-88	Not Detected	--------	1.77E-02
ZN-65	Not Detected	--------	7.25E-02
ZR-95	Not Detected	--------	4.35E-02

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*****************************************************************************
*                    Sandia National Laboratories                           *
*  Radiation Protection Sample Diagnostics Program [881 Laboratory]          *
*                     3-07-96  8:54:20 PM                                   *
*****************************************************************************
*                                    *Dept 7714  Survey No._________________*
* Reviewed by:_____3/8/96____________ *Use Only   Surveyed by:_____________*
*****************************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027851-03
Lab Sample ID : 60015706

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 3SMAR
Sample Quantity : 913.000 gram
Sample Date/Time : 3-05-96 10:15:00 AM
Acquire Start Date : 3-07-96 7:11:26 PM
Detector Name : LAB03
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

*****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	9.13E-01
TH-234	7.32E-01	2.20E-01	2.76E-01
RA-226	8.83E-01	4.01E-01	5.75E-01
PB-214	5.13E-01	1.09E-01	4.68E-02
BI-214	4.89E-01	9.02E-02	5.65E-02
TH-232	5.11E-01	2.57E-01	1.39E-01
RA-228	5.88E-01	1.61E-01	1.27E-01
AC-228	5.73E-01	1.18E-01	8.41E-02
TH-228	Not Detected	--------	5.32E-01
RA-224	5.45E-01	1.58E-01	7.50E-02
PB-212	5.44E-01	1.22E-01	2.81E-02
BI-212	5.13E-01	2.22E-01	3.02E-01
TL-208	5.05E-01	9.92E-02	7.41E-02
U-235	Not Detected	--------	1.35E-01
TH-231	Not Detected	--------	1.16
PA-231	Not Detected	--------	1.03
TH-227	Not Detected	--------	2.70E-01
RA-223	Not Detected	--------	9.04E-02
RN-219	Not Detected	--------	2.94E-01
PB-211	Not Detected	--------	6.67E-01
TL-207	Not Detected	--------	1.19E+01
AM-241	Not Detected	--------	1.16E-01
PU-239	Not Detected	--------	2.52E+02
NP-237	Not Detected	--------	1.70E-01
PA-233	Not Detected	--------	4.40E-02
TH-229	Not Detected	--------	1.33E-01

[Summary Report] - Sample ID: 60015706

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.98E-02
AR-41	Not Detected	--------	1.18E+08
BA-133	Not Detected	--------	4.59E-02
BA-140	Not Detected	--------	1.02E-01
CD-109	Not Detected	--------	4.33E-01
CD-115	Not Detected	--------	1.04E-01
CE-139	Not Detected	--------	1.95E-02
CE-141	Not Detected	--------	3.26E-02
CE-144	Not Detected	--------	1.33E-01
CO-56	Not Detected	--------	2.90E-02
CO-57	Not Detected	--------	1.73E-02
CO-58	Not Detected	--------	2.80E-02
CO-60	Not Detected	--------	3.04E-02
CR-51	Not Detected	--------	1.85E-01
CS-134	Not Detected	--------	4.27E-02
CS-137	2.16E-02	1.67E-02	2.57E-02
CU-64	Not Detected	--------	1.48E+02
EU-152	Not Detected	--------	7.00E-02
EU-154	Not Detected	--------	1.47E-01
EU-155	Not Detected	--------	6.95E-02
FE-59	Not Detected	--------	6.56E-02
GD-153	Not Detected	--------	5.08E-02
HG-203	Not Detected	--------	2.17E-02
I-131	Not Detected	--------	2.72E-02
IN-115m	Not Detected	--------	3.73E+02
IR-192	Not Detected	--------	2.15E-02
K-40	1.32E+01	1.84	2.94E-01
LA-140	Not Detected	--------	8.57E-02
MN-52	Not Detected	--------	3.73E-02
MN-54	Not Detected	--------	2.88E-02
MN-56	Not Detected	--------	1.58E+05
MO-99	Not Detected	--------	3.80E-01
NA-22	Not Detected	--------	3.58E-02
NA-24	Not Detected	--------	3.88E-01
NB-95	Not Detected	--------	1.99E-01
ND-147	Not Detected	--------	1.81E-01
NI-57	Not Detected	--------	1.27E-01
BE-07	Not Detected	--------	1.96E-01
RU-103	Not Detected	--------	2.27E-02
RU-106	Not Detected	--------	2.40E-01
SB-122	Not Detected	--------	5.78E-02
SB-124	Not Detected	--------	2.60E-02
SB-125	Not Detected	--------	6.22E-02
SC-46	Not Detected	--------	4.68E-02
SR-85	Not Detected	--------	3.02E-02
TA-182	Not Detected	--------	1.36E-01
TA-183	Not Detected	--------	1.35E-01
TE-132	Not Detected	--------	3.10E-02
TL-201	Not Detected	--------	9.72E-02
XE-133	Not Detected	--------	1.11E-01
Y-88	Not Detected	--------	2.31E-02
ZN-65	Not Detected	--------	9.01E-02
ZR-95	Not Detected	--------	4.85E-02

```
*****************************************************************
*                  Sandia National Laboratories                 *
*  Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                    3-07-96  8:54:08 PM                        *
*****************************************************************
*                                *Dept 7714  Survey No._________*
* Reviewed by: 3/8/96            *Use Only   Surveyed by:_______*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027852-03
Lab Sample ID : 60015707

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 2SMAR
Sample Quantity : 915.000 gram
Sample Date/Time : 3-05-96 10:30:00 AM
Acquire Start Date : 3-07-96 7:10:20 PM
Detector Name : LAB02
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

*****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	2.54
TH-234	Not Detected	--------	4.16E-01
RA-226	8.25E-01	4.75E-01	7.25E-01
PB-214	3.18E-01	6.04E-02	5.30E-02
BI-214	2.75E-01	5.36E-02	4.55E-02
TH-232	4.99E-01	2.37E-01	1.20E-01
RA-228	4.96E-01	1.31E-01	1.07E-01
AC-228	4.65E-01	1.05E-01	1.01E-01
TH-228	4.38E-01	1.96E-01	3.48E-01
RA-224	5.16E-01	1.38E-01	7.01E-02
PB-212	4.75E-01	9.31E-02	3.28E-02
BI-212	5.22E-01	1.92E-01	2.53E-01
TL-208	4.28E-01	8.04E-02	6.91E-02
U-235	~~6.89E-02~~	~~1.36E-01~~	1.75E-01 Not detected 3/8/96
TH-231	Not Detected	--------	2.02
PA-231	Not Detected	--------	1.07
TH-227	Not Detected	--------	2.63E-01
RA-223	Not Detected	--------	1.53E-01
RN-219	Not Detected	--------	2.98E-01
PB-211	Not Detected	--------	6.89E-01
TL-207	Not Detected	--------	1.00E+01
AM-241	Not Detected	--------	3.84E-01
PU-239	Not Detected	--------	3.41E+02
NP-237	Not Detected	--------	2.12E-01
PA-233	Not Detected	--------	4.33E-02
TH-229	Not Detected	--------	2.14E-01

[Summary Report] - Sample ID: 60015707

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.78E-02
AR-41	Not Detected	--------	8.54E+07
BA-133	Not Detected	--------	4.43E-02
BA-140	Not Detected	--------	8.33E-02
CD-109	Not Detected	--------	7.30E-01
CD-115	Not Detected	--------	9.61E-02
CE-139	Not Detected	--------	2.22E-02
CE-141	Not Detected	--------	4.11E-02
CE-144	Not Detected	--------	1.83E-01
CO-56	Not Detected	--------	2.69E-02
CO-57	Not Detected	--------	2.43E-02
CO-58	Not Detected	--------	2.33E-02
CO-60	Not Detected	--------	2.69E-02
CR-51	Not Detected	--------	1.82E-01
CS-134	Not Detected	--------	3.52E-02
CS-137	Not Detected	--------	3.13E-02
CU-64	Not Detected	--------	1.28E+02
EU-152	Not Detected	--------	6.13E-02
EU-154	Not Detected	--------	1.30E-01
EU-155	Not Detected	--------	1.02E-01
FE-59	Not Detected	--------	5.43E-02
GD-153	Not Detected	--------	8.36E-02
HG-203	Not Detected	--------	2.19E-02
I-131	Not Detected	--------	2.49E-02
IN-115m	Not Detected	--------	3.32E+02
IR-192	Not Detected	--------	1.99E-02
K-40	1.22E+01	1.68	3.55E-01
LA-140	Not Detected	--------	6.38E-02
MN-52	Not Detected	--------	2.79E-02
MN-54	~~9.22E-03~~	~~1.01E-02~~	1.62E-02 not detected 3/15/96
MN-56	Not Detected	--------	1.36E+05
MO-99	Not Detected	--------	3.46E-01
NA-22	Not Detected	--------	3.21E-02
NA-24	Not Detected	--------	3.28E-01
NB-95	Not Detected	--------	1.92E-01
ND-147	Not Detected	--------	1.58E-01
NI-57	Not Detected	--------	9.94E-02
BE-07	Not Detected	--------	1.79E-01
RU-103	Not Detected	--------	2.04E-02
RU-106	Not Detected	--------	2.14E-01
SB-122	Not Detected	--------	5.47E-02
SB-124	Not Detected	--------	2.31E-02
SB-125	Not Detected	--------	6.32E-02
SC-46	Not Detected	--------	3.79E-02
SR-85	Not Detected	--------	2.73E-02
TA-182	Not Detected	--------	1.10E-01
TA-183	Not Detected	--------	4.57E-01
TE-132	Not Detected	--------	3.41E-02
TL-201	Not Detected	--------	2.01E-01
XE-133	Not Detected	--------	1.96E-01
Y-88	Not Detected	--------	2.00E-02
ZN-65	Not Detected	--------	7.34E-02
ZR-95	Not Detected	--------	4.31E-02

```
*****************************************************************
*                  Sandia National Laboratories                 *
*  Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                    3-08-96  7:45:08 AM                        *
*****************************************************************
*                                *Dept 7714  Survey No._________*
* Reviewed by: 3/8/96            *Use Only   Surveyed by:_______*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : LAB CONTROL SAMPLE ANALYSIS #CG134
Lab Sample ID : 60015708

Sample Description : MIXED_GAMMA_STANDARD
Sample Type : Liquid
Sample Geometry : WMAR
Sample Quantity : 1.000 Each
Sample Date/Time : 11-01-90 12:00:00 PM
Acquire Start Date : 3-08-96 7:32:58 AM
Detector Name : LAB03
Elapsed Live Time : 600 seconds
Elapsed Real Time : 607 seconds

Comments:

*****

Nuclide	Activity (pCi/Each)	2S Error	MDA
U-238	Not Detected	--------	6.17E+03
TH-234	Not Detected	--------	2.66E+03
RA-226	Not Detected	--------	5.73E+03
PB-214	Not Detected	--------	7.15E+02
BI-214	Not Detected	--------	7.10E+02
TH-232	Not Detected	--------	2.14E+03
RA-228	Not Detected	--------	3.30E+03
AC-228	Not Detected	--------	1.95E+03
TH-228	Not Detected	--------	4.60E+04
RA-224	Not Detected	--------	2.03E+03
PB-212	Not Detected	--------	3.31E+03
BI-212	Not Detected	--------	3.57E+04
TL-208	Not Detected	--------	6.73E+03
U-235	Not Detected	--------	1.42E+03
TH-231	Not Detected	--------	9.19E+03
PA-231	Not Detected	--------	1.36E+04
TH-227	Not Detected	--------	2.24E+03
RA-223	Not Detected	--------	1.00E+26
RN-219	Not Detected	--------	5.57E+03
PB-211	Not Detected	--------	1.26E+04
TL-207	Not Detected	--------	2.51E+05
AM-241	9.32E+04	1.49E+04	1.95E+03
PU-239	Not Detected	--------	2.56E+06
NP-237	Not Detected	--------	1.52E+03
PA-233	Not Detected	--------	6.17E+02
TH-229	Not Detected	--------	1.31E+03

[Summary Report] - Sample ID: 60015708

Nuclide	Activity (pCi/Each)	2S Error	MDA
AG-110m	Not Detected	--------	3.99E+05
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	6.20E+02
BA-140	Not Detected	--------	1.00E+26
CD-109	3.17E+05	8.52E+04	1.01E+05
CD-115	Not Detected	--------	1.00E+26
CE-139	Not Detected	--------	3.88E+06
CE-141	Not Detected	--------	3.93E+20
CE-144	Not Detected	--------	1.65E+05
CO-56	Not Detected	--------	1.87E+10
CO-57	1.42E+04	1.57E+04	2.52E+04
CO-58	Not Detected	--------	8.10E+10
CO-60	7.53E+04	9.87E+03	7.07E+02
CR-51	Not Detected	--------	1.00E+26
CS-134	Not Detected	--------	2.02E+03
CS-137	6.69E+04	8.68E+03	5.71E+02
CU-64	Not Detected	--------	1.00E+26
EU-152	Not Detected	--------	1.29E+03
EU-154	Not Detected	--------	2.65E+03
EU-155	Not Detected	--------	1.46E+03
FE-59	Not Detected	--------	1.71E+16
GD-153	Not Detected	--------	1.32E+05
HG-203	Not Detected	--------	1.11E+15
I-131	Not Detected	--------	1.00E+26
IN-115m	Not Detected	--------	1.00E+26
IR-192	Not Detected	--------	2.66E+10
K-40	Not Detected	--------	1.83E+03
LA-140	Not Detected	--------	1.00E+26
MN-52	Not Detected	--------	1.00E+26
MN-54	Not Detected	--------	3.35E+04
MN-56	Not Detected	--------	1.00E+26
MO-99	Not Detected	--------	1.00E+26
NA-22	Not Detected	--------	1.10E+03
NA-24	Not Detected	--------	1.00E+26
NB-95	Not Detected	--------	1.00E+26
ND-147	Not Detected	--------	1.00E+26
NI-57	Not Detected	--------	1.00E+26
BE-07	Not Detected	--------	3.83E+14
RU-103	Not Detected	--------	3.45E+17
RU-106	Not Detected	--------	1.36E+05
SB-122	Not Detected	--------	1.00E+26
SB-124	Not Detected	--------	1.95E+12
SB-125	Not Detected	--------	4.38E+03
SC-46	Not Detected	--------	5.38E+09
SR-85	Not Detected	--------	4.32E+11
TA-182	Not Detected	--------	1.90E+08
TA-183	Not Detected	--------	1.00E+26
TE-132	Not Detected	--------	1.00E+26
TL-201	Not Detected	--------	1.00E+26
XE-133	Not Detected	--------	1.00E+26
Y-88	Not Detected	--------	6.91E+07
ZN-65	Not Detected	--------	2.77E+05
ZR-95	Not Detected	--------	1.02E+12

```
*********************************************************************
*                    Sandia National Laboratories                   *
*             Radiation Protection Sample Diagnostics Program       *
*                      Quality Assurance Report                     *
*********************************************************************
```

Report Date	:	3-08-96 7:47:48 AM
QA File	:	C:\GENIEPC\CAMFILES\LCS3.QAF
Analyst	:	FCD
Sample ID	:	60015708
Sample Quantity	:	1.00 Each
Sample Date	:	11-01-90 12:00:00 PM
Measurement Date	:	3-08-96 7:32:58 AM
Elapsed Live Time	:	600 seconds
Elapsed Real Time	:	607 seconds

Parameter	Mean	1S Error	New Value	< LU	: SD	: UD	: BS >
AM-241 Activity	8.531E-02	1.561E-02	9.315E-02	<	:	:	: >
CS-137 Activity	6.706E-02	5.414E-04	6.685E-02	<	:	:	: >
CO-60 Activity	7.435E-02	6.413E-04	7.417E-02	<	:	:	: >

Flags Key:

LU = Boundary Test	(Ab = Above ,	Be = Below)
SD = Sample Driven N-Sigma Test	(In = Investigate,	Ac = Action)
UD = User Driven N-Sigma Test	(In = Investigate,	Ac = Action)
BS = Measurement Bias Test	(In = Investigate,	Ac = Actio

Reviewed by: 3/8/96

```
*****************************************************************
*                  Sandia National Laboratories                 *
*  Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                   3-08-96  8:01:27 AM                         *
*****************************************************************
*                          *Dept 7714  Survey No._____________*
  Reviewed by: 3/8/96      *Use Only   Surveyed by:___________*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : LAB CONTROL SAMPLE ANALYSIS #CG134
Lab Sample ID : 60015709

Sample Description : MIXED_GAMMA_STANDARD
Sample Type : Liquid
Sample Geometry : WMAR
Sample Quantity : 1.000 Each
Sample Date/Time : 11-01-90 12:00:00 PM
Acquire Start Date : 3-08-96 7:48:47 AM
Detector Name : LAB02
Elapsed Live Time : 600 seconds
Elapsed Real Time : 606 seconds

Comments:

*****

Nuclide	Activity (pCi/Each)	2S Error	MDA
U-238	Not Detected	--------	2.26E+04
TH-234	Not Detected	--------	4.88E+03
RA-226	Not Detected	--------	6.52E+03
PB-214	Not Detected	--------	6.45E+02
BI-214	Not Detected	--------	6.19E+02
TH-232	Not Detected	--------	2.08E+03
RA-228	Not Detected	--------	2.89E+03
AC-228	Not Detected	--------	1.68E+03
TH-228	Not Detected	--------	4.52E+04
RA-224	Not Detected	--------	1.48E+03
PB-212	Not Detected	--------	3.44E+03
BI-212	Not Detected	--------	3.16E+04
TL-208	Not Detected	--------	6.49E+03
U-235	Not Detected	--------	1.80E+03
TH-231	Not Detected	--------	1.79E+04
PA-231	Not Detected	--------	1.38E+04
TH-227	Not Detected	--------	2.37E+03
RA-223	Not Detected	--------	1.00E+26
RN-219	Not Detected	--------	5.25E+03
PB-211	Not Detected	--------	1.20E+04
TL-207	Not Detected	--------	2.19E+05
AM-241	9.00E+04	1.53E+04	5.94E+03
PU-239	Not Detected	--------	3.36E+06
NP-237	Not Detected	--------	2.61E+03
PA-233	Not Detected	--------	5.91E+02
TH-229	Not Detected	--------	2.12E+03

[Summary Report] - Sample ID: 60015709

Nuclide	Activity (pCi/Each)	2S Error	MDA
AG-110m	Not Detected	--------	3.44E+05
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	5.59E+02
BA-140	Not Detected	--------	1.00E+26
CD-109	4.11E+05	1.39E+05	1.87E+05
CD-115	Not Detected	--------	1.00E+26
CE-139	Not Detected	--------	4.37E+06
CE-141	Not Detected	--------	5.13E+20
CE-144	Not Detected	--------	2.14E+05
CO-56	Not Detected	--------	1.67E+10
CO-57	Not Detected	--------	3.84E+04
CO-58	Not Detected	--------	6.91E+10
CO-60	7.44E+04	9.69E+03	5.33E+02
CR-51	Not Detected	--------	1.00E+26
CS-134	Not Detected	--------	1.80E+03
CS-137	6.71E+04	8.68E+03	5.26E+02
CU-64	Not Detected	--------	1.00E+26
EU-152	Not Detected	--------	1.19E+03
EU-154	Not Detected	--------	2.38E+03
EU-155	Not Detected	--------	2.30E+03
FE-59	Not Detected	--------	1.46E+16
GD-153	Not Detected	--------	2.21E+05
HG-203	Not Detected	--------	1.08E+15
I-131	Not Detected	--------	1.00E+26
IN-115m	Not Detected	--------	1.00E+26
IR-192	Not Detected	--------	2.55E+10
K-40	Not Detected	--------	1.55E+03
LA-140	Not Detected	--------	1.00E+26
MN-52	Not Detected	--------	1.00E+26
MN-54	Not Detected	--------	2.91E+04
MN-56	Not Detected	--------	1.00E+26
MO-99	Not Detected	--------	1.00E+26
NA-22	Not Detected	--------	9.51E+02
NA-24	Not Detected	--------	1.00E+26
NB-95	Not Detected	--------	1.00E+26
ND-147	Not Detected	--------	1.00E+26
NI-57	Not Detected	--------	1.00E+26
BE-07	Not Detected	--------	3.54E+14
RU-103	Not Detected	--------	3.12E+17
RU-106	Not Detected	--------	1.17E+05
SB-122	Not Detected	--------	1.00E+26
SB-124	Not Detected	--------	1.73E+12
SB-125	Not Detected	--------	4.06E+03
SC-46	Not Detected	--------	4.69E+09
SR-85	Not Detected	--------	4.00E+11
TA-182	Not Detected	--------	1.68E+08
TA-183	Not Detected	--------	1.00E+26
TE-132	Not Detected	--------	1.00E+26
TL-201	Not Detected	--------	1.00E+26
XE-133	Not Detected	--------	1.00E+26
Y-88	Not Detected	--------	5.75E+07
ZN-65	Not Detected	--------	2.38E+05
ZR-95	Not Detected	--------	9.33E+11

```
*********************************************************************
*                    Sandia National Laboratories                   *
*              Radiation Protection Sample Diagnostics Program      *
*                      Quality Assurance Report                     *
*********************************************************************
```

Report Date : 3-08-96 8:07:33 AM
QA File : C:\GENIEPC\CAMFILES\LCS2.QAF
Analyst : FCD
Sample ID : 60015709
Sample Quantity : 1.00 Each
Sample Date : 11-01-90 12:00:00 PM
Measurement Date : 3-08-96 7:48:47 AM
Elapsed Live Time : 600 seconds
Elapsed Real Time : 606 seconds

Parameter	Mean	1S Error	New Value	< LU : SD : UD : BS >
AM-241 Activity	9.304E-02	4.054E-03	9.002E-02	< : : : >
CS-137 Activity	6.864E-02	2.083E-03	6.705E-02	< : : : >
CO-60 Activity	7.516E-02	1.588E-03	7.435E-02	< : : : >

Flags Key:
LU = Boundary Test (Ab = Above , Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

Reviewed by: 3/8/96

SMO ANALYTICAL DATA ROUTING FORM

Project Name: MWL RISK ASSESSMENT Case Number: 3618.500

SNL Task Leader: J. PEACE Org/Mail Stop: 7585/1148

SMO Project Coordinator: P. PUISSANT Sample Ship Date: 3/14/96

ARCOC	Lab	Lab ID
D4892	QUAN/SL	D577

Date Results Received:

Preliminary: _____ Final: 4/19/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 4/19/96 Reviewer: P. PUISSANT

Date Review Complete: 4/23/96 Signature: [illegible]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 4/24/96 Transmitted To: Lyon

Transmitted By: [illegible] Filed In Record Center: [illegible]

Comments: _____

RECORDS CENTER
Received
APR 24 1996

INFORMATION ONLY

TOP 94-03
Rev. 1
Attachment A
November 1995

Wmd 11-9-95

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: J Peace Project Name: MWL Risk Assessment Case No. 3618500

AR/COC No. 04892 Analytical Lab: Quanterra, St. Louis SDG No. 10577

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	X		Recordkeeper code is incorrect		
1.2	Container type(s) correct for analyses requested	X		Should be ER/1789 0716/DAT.		
1.3	Sample volume adequate for # and types of analyses requested	X				
1.4	Preservative correct for analyses requested	X				
1.5	Custody records continuous and complete	X				
1.6	Lab sample number(s) provided	X				
1.7	Condition upon receipt information provided	X				
1.8	Tritium Screen data provided (Rad labs)		X	Release by COC 04896	X	

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	X		* Results are not supposed to be		
2.2	Date samples received	X		listed as "ND", # required.		
2.3	Method reference number(s) complete and correct	X		— ND Okay per P Puissant		
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	X				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	X				
2.6	Narrative provided	X				
2.7	TAT met		X	due 4/15, rec. 4/18.		
2.8	Hold times met	X				
2.9	All requested result data provided	X				

Based on the review, this data package is complete ☒ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewer: D M Slaughter Date: 4/23/96 Closed by: _____ Date: _____

ANALYSIS REQUEST AN CHAIN OF CUSTODY

PAGE 1 OF

AR/COC- 04[illegible]2

[illegible]nal Lab
Batch No. _____

SF 2001-COC (6-95)

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/3 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0225

Date Samples Shipped: 3/11/96
Carrier/Waybill No.: AC JULI
Lab Contact: Dianne Meuller
Lab Destination: Quanterra St. Louis
SMO Contact/Phone: Pam Puissant 848-0[illegible]
Send Report to SMO Yes, Pam Puissant

Contract No.: AT-2480B
Case No.: 3618.500
SMO Authorization: [illegible]
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Location Tech Area 3
Building N/A Room N/A

Reference LOV (available at SMO)

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative (All @ 4°C)	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270), TAL Metals									Lab Sample ID
027822-01	100S: 250E	6"	76	3/11/96 0823	S	G	4oz	None	G	SA	X										
027822-02	"	6"	76	3/11/96 0823	S	G	8oz	None	G	SA		X									
027823-01	125S: 250E	6"	76	3/11/96 0832	S	G	4oz	None	G	SA	X										
027823-02	"	6"	76	3/11/96 0832	S	G	8oz	None	G	SA		X									
027824-01	150S: 225E	6"	76	3/11/96 0841	S	G	4oz	None	G	SA	X										
027824-02	"	6"	76	3/11/96 0841	S	G	8oz	None	G	SA		X									
027825-01	175S: 250E	6"	76	3/11/96 0858	S	G	4oz	None	G	SA	X										
027825-02	"	6"	76	3/11/96 0858	S	G	8oz	None	G	SA		X									
027826-01	175S: 270E	6"	76	3/11/96 0900	S	G	4oz	None	G	SA	X										
027826-02	"	6"	76	3/11/96 0900	S	G	8oz	None	G	SA		X									

RMMA ☒ Yes ☐ No Ref. No. _____

Sample Disposal ☐ Return to Client ☒ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date _____

Sample Tracking
Date Entered (mm/dd/yy) 3/19/96
Entered by: [illegible]
QC inits. _____

Special Instructions/QC Requirements
Please list as separate report
[illegible] 3/19/96

Abnormal Conditions on Receipt

Sample Team Members

Name	Signature	Init	Company/Organization/Phone
Jerry Peace	[illegible]	[illegible]	[illegible]
Tim Goering	[illegible]	TG	6CAM/7585/284-2563
Mike McVey	[illegible]	MM	6CAM/7585/284-2571

	Org.	Date	Time
1. Relinquished by [illegible]	7585	3/12/96	1147
1. Received by [illegible]	7512	3/12/96	1147
2. Relinquished by [illegible]	[illegible]	3/14/96	1410
2. Received by			
3. Relinquished by			
3. Received by			
4. Relinquished by			
4. Received by			
5. Relinquished by			
5. Received by			
6. Relinquished by			
6. Received by			

WHITE - To A[illegible]mpany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- S[illegible] Suspense Copy PINK- Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

SF 2001-COD (9-94)

PAGE ___ OF ___

AR/COC- 054872

Project Name: MWL Risk Assessment Project/Task Manager: Jerry Peace Case No.: 30/18.500

Location Tech Area 3

Building N/A Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Reference LOV (available at SMO): Sample Matrix	Container: Type	Container: Volume	Preservative	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270), TAL Metals									Lab Sample ID
027827-01	2005:2255	6"	70	7/11/00 0918	S	G	4oz	None	G	SA	X										
027827-02	"	6"	70	7/11/00 0918	S	G	8oz	None	G	SA		X									
027828-01	(Dup. of 027827-01) 2005:2255	6"	70	7/11/00 0918	S	G	4oz	None	G	DU	X										
027828-02	(Dup. of 027827-02)	6"	70	7/11/00 0918	S	G	8oz	None	G	DU		X									
027829-01	2005:2560	6"	70	7/11/00 0921	S	G	4oz	None	G	SA	X										
027829-02	"	6"	70	7/11/00 0921	S	G	8oz	None	G	SA		X									

Abnormal Conditions on Receipt

Recipient Initial ___

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- Suspense Copy PINK- Field Copy

SHIPPER

51-AE(1-83)

Sandia National Laboratories

1 [XXX] New Mexico [ ] California [ ] Other

SHIP TO: *Typed or neatly printed*

2
Quanterra Saint Louis
13715 Rider Trail North
Earth City, MO 63045

Attention: Dianne Meuller
(314) 298-8566 or 1 800 333-3305
Contract # AJ-2480B

ARCOC 04850/04892

Gate Exit Time & Date 3 | Highest Material Security Class. 4 U | Page 1 of 1

Date to be Returned 5 [XXX] No Return | Document No. A 60047 | Shipping Code 6 | Shipment Register No. 7 70955-D

Due at Destination 8 3-15-96 Date | [XXX] Firm (Premium transportation authorized) [ ] Flex (Most economical transportation)

Shipper's Name 9 D. L. McLaughlin | Org. 7513 | Phone 844-0491 | Date Prepared 10 3-14-96

FROM: 11 TA 1 | Site 870B | Bldg. Lab | Room | Org. 7513

Requester's E No. 12 03319 | Requester's Name (Write "Same" if also originator) Same | Org. | Phone

Case No. 13 0876.123 ~~6991.124~~

Material Billing 14: [ ] Charge [XXX] No Charge

Freight Billing 15: [XXX] Prepaid [ ] Collect *If collect, carrier & acct no. (if known)*

Reason for Shipment 16: Analysis of Environmental Samples

Authority for Shipment 17: N/A

Item No. 18	Sec. Class. 19	Quantity 20	Unit 21	Haz. Mat'l. 22	Property Tag No. And/Or MID No. 23	Description 24	Unit Value 25	$ Total 26
1	U	1	ea	NO	N/A	Environmental Water Samples (CWL)	N/A	N/A

ROUTED BY TRAFFIC (letter)

Important: Please Fax Copy of Completed Shipper to SMO at 844-4976

3/14/96

Grand Total 27 $

DOE Transportation Safeguards Div. Courier Required? 28 [ ] YES [XXX] NO

Service Clerk 29 | Property Mgmt. Rep. 30

Date Shipped or Hand-carried 31 FEDERAL EX | Routing 32 MAR 14 1996 | B/L No. 33 386 3218 393 | No. of Boxes 34 1 cooler | Weight 35 57 lbs | Total Cubic Feet/Dimensions 36 30/23X14X15

Authorizing Signature 37
D. L. McLaughlin 7513
Signature of manager above typed or printed name and Org.
I certify that the material being offered for shipment is nonhazardous unless noted as hazardous in block 22 and required information is being provided.

Special Approval 38 | Name | Org.

Special Approval | Name | Org.

39 Bearer's Signature

40 Receipt Acknowledged | Recipient's Signature/Company | Date

Contract or PEL/MEL Rep. 41 | Name | Org. | [ ] External Loan

Ply 1:
Corporate File - Retained by the Traffic Organization after shipper is complete and items are ready for shipment.

The listed material and accompanying information has been examined and the hazardous material designations and all preparations for shipment are certified correct.
42 Hazardous Material Consultant

43 Packed by

RECEIVED
MAR 19 1996
SNL/SMO

Memorandum

TO: Kathy Becker

FROM: Diane Mueller

DATE: 3/18/96

SUBJECT: AR/COC 04892

Attached are the following:

Signed and dated copy of AR/COC 04892

Quanterra's in-house COC (Login Number 10577) which can be used as a cross reference for client and lab sample I.D's

Signed and dated Quanterra Condition Upon Receipt

Preliminary Invoice

On March 15, 1996, one (1) cooler was received at Quanterra, St. Louis. The temperature of this cooler was 2° C.

TAT requested is Normal turn = 30 days

ANALYSIS REQUEST AND CHAIN OF CUSTODY

Internal Lab Batch No. _____

PAGE 1 OF 2

AR/COC- 04 2

SF 2001-COC (6-95)

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/3 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CH0225

Date Samples Shipped: 3/11/96
Carrier/Waybill No.: A60047
Lab Contact: Dianne Meuller
Lab Destination: Quanterra St. Louis
SMO Contact/Phone: Pam Russell 848-0405
Send Report to SMO Yes, Pam Russell

Contract No.: AJ-2480B
Case No.: 3618.500
SMO Authorization: [signature]
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Location Tech Area 3
Building N/A Room N/A

Reference LOV (available at SMO)

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative (All @ 4°C)	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270) TAL Metals									Lab Sample ID
027822-01	1005: 250E	6"	76	3/11/96 0823	S	G	4oz	None	G	SA	X										
027822-02	"	6"	76	3/11/96 0823	S	G	8oz	None	G	SA		X									
027823-01	1255: 250E	6"	76	3/11/96 0832	S	G	4oz	None	G	SA	X										
027823-02	"	6"	76	3/11/96 0832	S	G	8oz	None	G	SA		X									
027824-01	1505: 225E	6"	76	3/11/96 0841	S	G	4oz	None	G	SA	X										
027824-02	"	6"	76	3/11/96 0841	S	G	8oz	None	G	SA		X									
027825-01	1755: 250E	6"	76	3/11/96 0858	S	G	4oz	None	G	SA	X										
027825-02	"	6"	76	3/11/96 0858	S	G	8oz	None	G	SA		X									
027826-01	1755: 270E	6"	76	3/11/96 0906	S	G	4oz	None	G	SA	X										
027826-02	"	6"	76	3/11/96 0906	S	G	8oz	None	G	SA		X									

RMMA ☒ Yes ☐ No Ref. No. _____

Sample Disposal ☐ Return to Client ☒ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date _____

Sample Tracking
Date Entered (mm/dd/yy) _____
Entered by: _____
QC Inits. _____

Special Instructions/QC Requirements
Please list as separate report
Rec'd by 11 8 96

Abnormal Conditions on Receipt

Sample Team Members

Name	Signature	Init	Company/Organization/Phone
Jerry Peace	[signature]	JP	ISM / 7585 / 284-2472
Tim Goering	[signature]	TG	GRAM / 7585 / 284-2563
Mike McVey	[signature]	MM	GRAM / 7585 / 284-759

	Org.	Date	Time
1. Relinquished by [signature]	7585	3/12/96	1147
1. Received by [signature]	7513	3/12/96	1147
2. Relinquished by [signature]	SMO 751	3/14/96	1400
2. Received by Fred Mitchell	Quanterra	3-15-96	09:45
3. Relinquished by			
3. Received by			
4. Relinquished by			
4. Received by			
5. Relinquished by			
5. Received by			
6. Relinquished by			
6. Received by			

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- Suspense Copy PINK- Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

SF 2001-COD (9-94)

AR/COC- 04892

Project Name: MWL Risk Assessment Project/Task Manager: Jerry Pease Case No.: 3618.500

Location Tech Area 3

Building N/A Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Reference LOV (available at SMO): Sample Matrix	Container: Type	Container: Volume	Preservative	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270), TAL Metals								100% Fail	Lab Sample ID
027827-01	2005: 225E	6"	76	3/11/96 0918	S	G	4oz	None	G	SA	X										
027827-02	"	6"	76	3/11/96 0918	S	G	8oz	None	G	SA		X									
027828-01	(Dup. of 027827-01) 2005: 225E	6"	76	3/11/96 0918	S	G	4oz	None	G	DU	X										
027828-02	(Dup. of 027827-02) "	6"	76	3/11/96 0918	S	G	8oz	None	G	DU		X									
027829-01	2005: 250E	6"	76	3/11/96 0927	S	G	4oz	None	G	SA	X										
027829-02	"	6"	76	3/11/96 0927	S	G	8oz	None	G	SA		X									

Abnormal Conditions on Receipt

Recipient Initials _____

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- Suspense Copy PINK- Field Copy

Quanterra March 15, 1996 03:11 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10577

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by: S. Sourwer PM Review: Cathy A. Giacopelli

Sample Header Template:

Sample No. / #	Client ID / Comments / Container Type	C-Matrix / Analysis	Date: Collected / Class	Received / Preservative	Due / Anal. Due Date	Shipper / Hold Date	Rad Category / Site	Rad Sample No. / (Container Numbers:% Filled)
Data:								
10577-001	027822-01/100S:250E	Soil	11-MAR-96 08:23	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-016
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219824:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219824:100)
10577-002	027823-01/125S:250E	Soil	11-MAR-96 08:32	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-015
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219825:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219825:100)
10577-003	027824-01/150S:225E	Soil	11-MAR-96 08:41	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-014
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219826:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219826:100)
10577-004	027825-01/175S:250E	Soil	11-MAR-96 08:58	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-013
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219827:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219827:100)
10577-005	027826-01/175S:270E	Soil	11-MAR-96 09:06	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-012
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219828:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219828:100)
10577-006	027827-01/200S:225E	Soil	11-MAR-96 09:18	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-011
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219829:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219829:100)
10577-007	027828-01/200S:225E	Soil	11-MAR-96 09:18	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-010
(Dup. of 027827-01)								
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219830:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219830:100)

3*=Sample has not been rad screened.

Quanterra March 15, 1996 03:11 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10577

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No.	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
10577-008	027829-01/200S:250E	Soil	11-MAR-96 09:27	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-009

#	Comments Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219831:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219831:100)

10577-009	027822-02/100S:250E	Soil	11-MAR-96 08:23	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-008

#	Comments Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219833:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219833:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219833:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219833:100)

10577-010	027823-02/125S:250E	Soil	11-MAR-96 08:32	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-007

#	Comments Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219834:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219834:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219834:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219834:100)

10577-011	027824-02/150S:225E	Soil	11-MAR-96 08:41	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-006

#	Comments Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219835:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219835:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219835:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219835:100)

10577-012	027825-02/175S:250E	Soil	11-MAR-96 08:58	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-005

#	Comments Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219836:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219836:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219836:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219836:100)

10577-013	027826-02/175S:270E	Soil	11-MAR-96 09:06	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-004

#	Comments Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219837:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219837:100)

3*=Sample has not been rad screened.

Quanterra March 15, 1996 03:11 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10577

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
# Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)	
Data:								
1	ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219837:100)	
1	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219837:100)	
10577-014	027827-02/200S:225E	Soil	11-MAR-96 09:18	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-003
1 AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219838:100)	
1	HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219838:100)	
1	ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219838:100)	
1	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219838:100)	
10577-015 (Dup. of 027827-02)	027828-02/200S:225E	Soil	11-MAR-96 09:18	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-002
1 AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219839:100)	
1	HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219839:100)	
1	ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219839:100)	
1	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219839:100)	
10577-016	027829-02/200S:250E	Soil	11-MAR-96 09:27	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-001
1 AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219840:100)	
1	HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219840:100)	
1	ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219840:100)	
1	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219840:100)	

3*=Sample has not been rad screened.

Quanterra Environmental Services

C.O.C. attached
COPIED TO: BW & KG
DATE: 3-15-96
TIME: 11:20
BY: [illegible]

Login No.: 10577

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Sandia
Date: 3-15-96 Time: 0945
Project No: 605.09
Initiated by: [illegible]
Shipper/No: Fed Ex 396 3218 393
RFA/COC Numbers: 04892

Condition/Variance (Check all that apply):

1. ☐ Sample received broken/leaking.
2. ☐ Sample received without proper preservative.
   - ☐ Cooler temperature not within 4°C ± 2°C
     Record temperature: _____
   - ☐ pH _____
   - ☐ other: _____
3. ☐ Sample received in improper container.
4. ☐ Sample received without proper paperwork. Explain: _____
5. ☐ Paperwork received without sample.
6. ☐ No sample ID on sample container.
7. ☐ Custody tape disturbed/broken/missing.
8. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
9. ☐ All coolers on airbill not received with shipment.
10. ☐ Other (explain below): _____

☑ No variances were noted during sample receipt. Cooler Temperature Upon Receipt: 2°C

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____

☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is".

☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: (or designate) [illegible] Date: 3-15-96

Project Management Review: Kathy Guarapelli Date: 3-15-96

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 11/24/95

Quanterra Environmental Services

Quanterra Incorporated
13715 Rider Trail North
Earth City, Missouri 63045

314 298-8566 Telephone
314 298-8757 Fax

RECEIVED
APR 19 1996
SNL/SMO

CASE NARRATIVE

April 18, 1996

Sandia National Laboratory
BDM Bldg-2301 Buena Vista SE
Mail Stop 1347
Albuquerque, NM 87106

ATTN: Pam Puissant

This is the Case Narrative of the following samples:

Sandia Case Number	:	3618.500
Sandia Contract Number	:	AJ-2480B
Sandia Dept. Number	:	7585
Sandia Project Manager	:	Jerry Peace
Sandia Project Name	:	MWL Risk Assessment
AR/COC Number	:	04892
Quanterra Login Number	:	10577
St. Louis Project ID	:	605.09
Date Received	:	March 15, 1996
Number of Samples	:	Sixteen (16)
Samples Type	:	Soil

I. INTRODUCTION

On March 15, 1996, sixteen (16) soil samples were received at Quanterra Environmental Services, Earth City, MO from Sandia National Laboratories. The list of analytical tests performed, as well as date of receipt and analysis, can be found in the attached report.

All analytical results and quality control data for this data package were obtained in accordance with the contractual requirements and meet Quanterra's Quality Assurance Program which has been approved by Sandia National Laboratory.

Reviewed and Approved:

Diane W. Mueller

Diane W. Mueller
Quanterra Project Manager

Date: April 18, 1996

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10577
Lab Project ID : 605.09

I. INTRODUCTION (continued)

The samples were labeled as follows:

CLIENT SAMPLE ID	LAB SAMPLE NUMBER	PARAMETERS REQUIRED
027822-01/100S:250E	10577-001	Volatiles 8260
027823-01/125S:250E	10577-002	Volatiles 8260
027824-01/150S:225E	10577-003	Volatiles 8260
027825-01/175S:250E	10577-004	Volatiles 8260
027826-01/175S:270E	10577-005	Volatiles 8260
027827-01/200S:225E	10577-006	Volatiles 8260
027828-01/200S:225E	10577-007	Volatiles 8260
027829-01/200S:250E	10577-008	Volatiles 8260
027822-02/100S:250E	10577-009	Semivolatiles; Metals & Mercury
027823-02/125S:250E	10577-010	Semivolatiles; Metals & Mercury
027824-02/150S:225E	10577-011	Semivolatiles; Metals & Mercury
027825-02/175S:250E	10577-012	Semivolatiles; Metals & Mercury
027826-02/175S:270E	10577-013	Semivolatiles; Metals & Mercury
027827-02/200S:225E	10577-014	Semivolatiles; Metals & Mercury
027828-02/200S:225E	10577-015	Semivolatiles; Metals & Mercury
027829-02/200S:250E	10577-016	Semivolatiles; Metals & Mercury

II. RESULTS/METHODOLOGY

The analytical results for this report are presented by analytical tests. Each set of data will include sample identification, analytical results and the appropriate detection limits.

The samples were prepared and analyzed using the following methods:

Test	Method
Volatiles	EPA 8260
Semivolatiles	EPA 8270
Metals	EPA 6010
Mercury	EPA 7470

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10577
Lab Project ID : 605.09

III. QUALITY CONTROL

QA/QC information was performed on the enclosed analytical data. The purpose of QA/QC information is to ensure the user that the data enclosed are scientifically valid and are used to assess the laboratory's performance.

IV. ABBREVIATIONS/DEFINITIONS

NC	=	No criteria at this time
NA	=	Not applicable
ND	=	Non - detect
MG/KG	=	Milligrams per kilogram
UG/KG	=	Micrograms per kilogram
%REC	=	Percent Recovery
QCBLK	=	Method Blank
QCLCS	=	Laboratory Control Sample
CRDL	=	Customer Required Detection Limit
RPD	=	Relative Percent Difference
IDL	=	Instrument detection limit
DL	=	PQL
J	=	Estimated Value
NC	=	No criteria
E	=	Exceeds calibration
D	=	Diluted
U	=	Non - Detect

Quanterra holds to the following belief for Organic analyses:
The MDL is the minimum value at which a found concentration can be measured with confidence (99%) as being greater than zero. The MDL is not a limit of detection if a concentration is not measured. Therefore, the PQL is the practical limit of detection when a value is not measured.

Our SOP is written with a minimum value that would have been reported by software or reviewed by the analysts. For GC/MS analyses (method 8240, 8260, and 8270), Quanterra, St. Louis reports positive results for analytes less than the PQL, but greater than 1-ug/ml for 8270 and 1-ng/ml for 8240 and 8260 with a "J" flag, indication "estimated concentration." The software has thresholds which are set to reject results less than 1. This minimum reportable value is the MRV. GC analyses (Pest/PCB) requires a second column confirmation of positive results. Results less than the PQL are not reported since a valid confirmation analysis would not necessarily have been performed.

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10577
Lab Project ID : 605.09

Quanterra believes that the appropriate value to be reported for all organic sample results that are non detected is the PQL value with a "U" flag. At Sandia's request, we have reported the MRV (minimum reportable value) or the MDL, whichever is greater, as the sample result with a "U" flag for any nondetected results for VOA and BNA. For GC analyses, (Pest/PCB), results less than the PQL are not reported. The MVR, or MDL is the PQL for Pest/PCB.

V. NONCONFORMANCES

VOLATILES 8260

There are no nonconformances associated with this analysis.

SEMIVOLATILES

There are no nonconformances associated with this analysis.

METALS & MERCURY

There are no nonconformances associated with this analysis.

VI. COMMENTS

VOLATILES 8260

Sample 027824-01/150S:225E (10577-003) gave low responses for all three internal standards. Re-analysis gave a low response only for 1,4-dichlorobenzene-d4 internal standard. Both analyses are reported.

Please refer to E-mail correspondence regarding surrogate recoveries on the hard copy report. The hard copy will be revised to accommodate this information, but at the present time only the found value is reflected on the hard copy. We have supplied the missing information on a Form II. The EDD contains all of the information for surrogate recoveries.

SEMIVOLATILES

Sample 027826-02/175S:270E (10577-013) gave no response for 1,4-dichlorobenzene-d4 internal standard when analyzed undiluted. The extract was diluted 1:5 in order to allow analysis.

Please refer to E-mail correspondence regarding surrogate recoveries on the hard copy report. The hard copy will be revised to accommodate this information, but at the present time only the found value is reflected on the hard copy. We have supplied the missing information on a Form II. The EDD contains all of the information for surrogate recoveries.

Date: April 18, 1996.

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10577
Lab Project ID : 605.09

METALS & MERCURY

There are no comments associated with this analysis.

Memorandum

TO: Kathy Becker

FROM: Diane Mueller

DATE: 3/18/96

SUBJECT: AR/COC 04892

Attached are the following:

Signed and dated copy of AR/COC 04892

Quanterra's in-house COC (Login Number 10577) which can be used as a cross reference for client and lab sample I.D's

Signed and dated Quanterra Condition Upon Receipt

Preliminary Invoice

On March 15, 1996, one (1) cooler was received at Quanterra, St. Louis. The temperature of this cooler was 2° C.

TAT requested is Normal turn = 30 days

ANALYSIS REQUEST AND CHAIN OF CUSTODY

Internal Lab Batch No. _____

PAGE ___ OF ___

AR/COC- 0-892

SF 2001-COC (6-95)

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/3 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0225

Date Samples Shipped: 3/11/96
Carrier/Waybill No.: A60047
Lab Contact: Duane Meuller
Lab Destination: Quanterra St. Louis
SMO Contact/Phone: Pam Puissant 848-0962
Send Report to SMO: Yes, Pam Puissant

Contract No.: AJ-2486B
Case No.: 3615.
SMO Authorization:
Bill to: Sandia National Laboratories, Supplier Services Department, P.O. Box 5800 MS 0154, Albuquerque, NM 87185-0154

Location Tech Area 3
Building N/A Room N/A

Reference LOV (available at SMO): All @ 4°C

	Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	Parameter & Method Requested	Lab Sampl ID
1	027822-01	100S: 250E	6"	76	3/11/96 0823	S	G	4oz	None	G	SA	X	
2	027822-02	"	6"	76	3/11/96 0823	S	G	8oz	None	G	SA	X	
3	027823-01	125S: 250E	6"	76	3/11/96 0832	S	G	4oz	None	G	SA	X	
4	027823-02	"	6"	76	3/11/96 0832	S	G	8oz	None	G	SA	X	
5	027824-01	150S: 225E	6"	76	3/11/96 0841	S	G	4oz	None	G	SA	X	
6	027824-02	"	6"	76	3/11/96 0841	S	G	8oz	None	G	SA	X	
7	027825-01	175S: 250E	6"	76	3/11/96 0858	S	G	4oz	None	G	SA	X	
8	027825-02	"	6"	76	3/11/96 0858	S	G	8oz	None	G	SA	X	
9	027826-01	175S: 270E	6"	76	3/11/96 0906	S	G	4oz	None	G	SA	X	
10	027826-02	"	6"	76	3/11/96 0906	S	G	8oz	None	G	SA	X	

RMMA ☒ Yes ☐ No Ref. No. _____

Sample Disposal ☐ Return to Client ☒ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date _____

Special Instructions/QC Requirements: Please list as separate report

Abnormal Conditions on Receipt

Sample Team Members	Name	Signature	Init	Company/Organization/Phone
	Jerry Peace		JM	SNL / 7585 / 294-2472
	Tim Greeing		TG	GRAM / 7585 / 294-2563
	Mike McVey		M	GRAM / 7585 / 294-2571

	Relinquished by	Received by
1. Relinquished by / Received by	Org. 7585, Date 3/12/96, Time 1147	Org. 7513, Date 3/12/96, Time 1147
2. Relinquished by / Received by	Org. 7513, Date 3/14/96, Time 1400	Org. Quanterra, Date 3-15-96, Time 0945
3. Relinquished by / Received by	Org.	Date	Time
4. Relinquished by / Received by	Org.	Date	Time
5. Relinquished by / Received by	Org.	Date	Time
6. Relinquished by / Received by	Org.	Date	Time

WHITE - To Accompany Samples, Laboratory Copy; BLUE - To Accompany Samples, Return to SMO; YELLOW - SMO Suspense Copy; PINK - Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

SF 2001-COD (9-9)

AR/COC- 042942

Project Name: MWL Risk Assessment Project/Task Manager: Jerry Pease Case No.: 3618.500

Location Tech Area 3

Building N/A Room N/A

	Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270), TAL Metals								1/3 Full	Lab Samp ID
13 ✓	027827-01	2005: 225E	6"	76	3/11/96 0918	S	G	4oz	None	G	SA	X										
14 ✓	027827-02	"	6"	76	3/11/96 0918	S	G	8oz	None	G	SA		X									
15 ✓	027828-01	(Dup. of 027827-01) 2005: 225E	6"	76	3/11/96 0918	S	G	4oz	None	G	DU	X										
16 ✓	027828-02	(Dup. of 027827-02) "	6"	76	3/11/96 0918	S	~~G~~	8oz	None	G	DU		X									
17 ✓	027829-01	2005: 250E	6"	76	3/11/96 0927	S	G	4oz	None	G	SA	X										
18 ✓	027829-02	"	6"	76	3/11/96 0927	S	G	8oz	None	G	SA		X									

Abnormal Conditions on Receipt

Recipient

WHITE - To Accompany Samples, BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

Quanterra March 15, 1996 03:11 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10577

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by: S Fournier PM Review: Kathy A Giacopelli

Sample Header Template:

Sample No. / #	Client ID / Container Type	C-Matrix / Analysis	Date: Collected / Class	Received / Preservative	Due / Anal. Due Date	Shipper / Hold Date	Site	Rad Category	Rad Sample No. / (Container Numbers:% Filled)
10577-001	027822-01/100S:250E	Soil	11-MAR-96 08:23	15-MAR-96 09:45	12-APR-96	FED EX		3*	R4782-016
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219824:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F		(219824:100)
10577-002	027823-01/125S:250E	Soil	11-MAR-96 08:32	15-MAR-96 09:45	12-APR-96	FED EX		3*	R4782-015
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219825:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F		(219825:100)
10577-003	027824-01/150S:225E	Soil	11-MAR-96 08:41	15-MAR-96 09:45	12-APR-96	FED EX		3*	R4782-014
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219826:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F		(219826:100)
10577-004	027825-01/175S:250E	Soil	11-MAR-96 08:58	15-MAR-96 09:45	12-APR-96	FED EX		3*	R4782-013
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219827:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F		(219827:100)
10577-005	027826-01/175S:270E	Soil	11-MAR-96 09:06	15-MAR-96 09:45	12-APR-96	FED EX		3*	R4782-012
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219828:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F		(219828:100)
10577-006	027827-01/200S:225E	Soil	11-MAR-96 09:18	15-MAR-96 09:45	12-APR-96	FED EX		3*	R4782-011
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219829:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F		(219829:100)
10577-007 (Dup. of 027827-01)	027828-01/200S:225E	Soil	11-MAR-96 09:18	15-MAR-96 09:45	12-APR-96	FED EX		3*	R4782-010
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219830:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F		(219830:100)

3*=Sample has not been rad screened.

Quanterra March 15, 1996 03:11 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10577

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / #	Client ID / Container Type	C-Matrix / Analysis	Date: Collected / Class	Received / Preservative	Due / Anal. Due Date	Shipper / Hold Date	Rad Category / Site	Rad Sample No. / (Container Numbers:% Filled)
10577-008	027829-01/200S:250E	Soil	11-MAR-96 09:27	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-009
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219831:100)
1		VOA/8260/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219831:100)
10577-009	027822-02/100S:250E	Soil	11-MAR-96 08:23	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-008
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219833:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219833:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219833:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219833:100)
10577-010	027823-02/125S:250E	Soil	11-MAR-96 08:32	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-007
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219834:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219834:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219834:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219834:100)
10577-011	027824-02/150S:225E	Soil	11-MAR-96 08:41	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-006
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219835:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219835:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219835:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219835:100)
10577-012	027825-02/175S:250E	Soil	11-MAR-96 08:58	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-005
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219836:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219836:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F	(219836:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F	(219836:100)
10577-013	027826-02/175S:270E	Soil	11-MAR-96 09:06	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-004
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F	(219837:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F	(219837:100)

3*=Sample has not been rad screened.

Quanterra March 15, 1996 03:11 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10577

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / #	Client ID / Container Type	Analysis	C-Matrix / Class	Date: Collected / Preservative	Received / Anal. Due Date	Due / Hold Date	Shipper / Site	Rad Category	Rad Sample No. / (Container Numbers:% Filled)
Comments / Data:									
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F		(219837:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219837:100)
10577-014	027827-02/200S:225E		Soil	11-MAR-96 09:18	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-003
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F		(219838:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F		(219838:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F		(219838:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219838:100)
10577-015 (Dup. of 027827-02)	027828-02/200S:225E		Soil	11-MAR-96 09:18	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-002
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F		(219839:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F		(219839:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F		(219839:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219839:100)
10577-016	027829-02/200S:250E		Soil	11-MAR-96 09:27	15-MAR-96 09:45	12-APR-96	FED EX	3*	R4782-001
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	05-APR-96	25-MAR-96	S13F		(219840:100)
1		HG/7470/Q4	S	COLD	05-APR-96	08-APR-96	S13F		(219840:100)
1		ICAPT/6010/Q4	S	COLD	05-APR-96	07-SEP-96	S13F		(219840:100)
1		RAD/SCREEN/Q4	S	COLD	05-APR-96	11-SEP-96	S13F		(219840:100)

3*=Sample has not been rad screened.

Quanterra Environmental

C... a... O.C.
COPIED TO: BW & KG
DATE: 3-15-96
TIME: 11:20
BY: [illegible]

Login No.: 10577

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Sandia
Date: 3-15-96 Time: 0945
Project No: 605.09
Initiated by: [illegible]
Shipper/No: Fed Ex 396 3218 393
RFA/COC Numbers: 04892

Condition/Variance (Check all that apply):

1. ☐ Sample received broken/leaking.
2. ☐ Sample received without proper preservative.
   - ☐ Cooler temperature not within 4°C ± 2°C
     Record temperature: _____
   - ☐ pH _____
   - ☐ other: _____
3. ☐ Sample received in improper container.
4. ☐ Sample received without proper paperwork. Explain: _____
5. ☐ Paperwork received without sample.
6. ☐ No sample ID on sample container.
7. ☐ Custody tape disturbed/broken/missing.
8. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
9. ☐ All coolers on airbill not received with shipment.
10. ☐ Other (explain below): _____

☑ No variances were noted during sample receipt. Cooler Temperature Upon Receipt: 2°C

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____

☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is".

☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: (or designate) [signature] Date: 3-15-96

Project Management Review: Kathy [signature] Date: 3-15-96

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 11/24/95

10577

Mueller, Diane

To: Pam Puissant
Subject: Hardcopy report for Organic Analysis

Pam, ARCOC 04893 (login 10541) will be shipped out by Fed-ex today. We ran into a little problem with the hardcopy report in regards to the surrogates. The only value hardcopy report is set for at present time for surrogates in the found value. All of the information is contained in the EDD. Please refer to Mike Franks below.
For ARCOC 04893 (login10541)due out today and ARCOC 04892 (login 10577) due to Sandia on April 12, 1996, we will leave the hardcopy report as is and will supply the missing information on a seperate forms.

If you have any questions, please call.

From: Franks, Mike
To: Mueller, Diane
Cc: Darnell, Darren; Giacopelli, Kathy
Subject: SANDIA NAT. LAB.
Date: Friday, April 05, 1996 10:47AM

ISSUE : SURROGATES ON THE HARD-COPY REPORT

SURROGATES ARE TO BE REPORTED LIKE LCS/DCS SAMPLES. i.e., WITH SPIKE ADDED AMOUNTS, UPPER CONTROL LIMIT, LOWER CONTROL, FOUND AMOUNT, AND PERCENT RECOVERY.

HOWEVER, I DID NOT TAKE THIS INTO CONSIDERATION WHILE THE HARD-COPY REPORT WAS BEING FORMATTED. THEREFORE, THE ONLY VALUES CONTAINED ON THE HARD-COPY REPORT FOR SURROGATES IS THE FOUND VALUE (OR RESULT). THE OTHER ITEMS MENTIONED ARE IN THE EDD.

FOR THE SAKE OF GETTING THIS REPORT (10541) OUT TODAY, WE WILL LEAVE THE REPORT AS IS, ALSO WE WILL SEND A FORM II ALONG WITH THE REPORT (FOR %REC.). THE REPORT WILL HAVE TO BE REVISED AT A LATER DATE (POSSIBLY WHEN I RETURN FROM VACATION)

MIKE

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: QUANTERRA MO Contract: 605-09

Lab Code: ITMO Case No.: V57701 SAS No.: SDG No.: 10577

Level: (low/med) LOW

Analyst KR3

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT	Client ID's
01	10577-001	103	91	100	0	0	027822-01
02	10577-002	107	96	101	0	0	027823-01
03	10577-003	100	91	104	0	0	027824-01
04	10577-003RE	112	91	108	0	0	027824-01
05	10577-004	113	98	111	0	0	027825-01
06	10577-005	104	94	101	0	0	027826-01
07	10577-006	103	92	98	0	0	027827-01
08	10577-007	99	82	95	0	0	027828-01
09	10577-008	103	94	106	0	0	027829-01
10	VSPK01A	107	88	101	0	0	
11	VSPK01B	104	84	94	0	0	
12	VSPK02A	110	92	107	0	0	
13	VSPK02B	111	94	103	0	0	
14	VBLK01	107	85	103	0	0	
15	VBLK02	116	97	109	0	0	

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(81-117)
SMC2 (BFB)	= Bromofluorobenzene	(74-121)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: QUANTERRA MO Contract: 605-09

Lab Code: ITMO Case No.: S57709 SAS No.: SDG No.: 10577

Level: (low/med) LOW

JJB

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT	Client ID
		50	50	50	75	75	75			
01	10577-009 ✓	82	71	59	76	74	81	0	0	027822
02	10577-010 ✓	73	64	52	70	66	71	0	0	027823
03	10577-011 ✓	75	67	56	71	69	75	0	0	027824
04	10577-012 ✓	82	75	57	76	71	77	0	0	027825
05	10577-013 ✓	81	83	71	75	75	66	0	0	027826
06	10577-014 ✓	74	63	55	71	69	74	0	0	027827
07	10577-015 ✓	80	70	59	77	72	79	0	0	027828
08	10577-016 ✓	41	37	27	43	44	27	0	0	027829
09	SSPK01A	76	70	64	78	70	85	0	0	
10	SSPK01B	79	73	61	79	73	91	0	0	
11	SBLK01	77	69	63	72	67	80	0	0	

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

FORM II SV-2 1/87 Rev.

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027822-02/100S:250E
Lab Sample ID : 10577-009

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	19-MAR-96	19-MAR-96	2.7	6240		20.0	MG/KG
Antimony	1	1	19-MAR-96	19-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	19-MAR-96	19-MAR-96	0.46	3.4		1.0	MG/KG
Barium	1	1	19-MAR-96	19-MAR-96	0.050	139		20.0	MG/KG
Beryllium	1	1	19-MAR-96	19-MAR-96	0.060	0.52		0.50	MG/KG
Cadmium	1	1	19-MAR-96	19-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	19-MAR-96	19-MAR-96	1.5	38400		500	MG/KG
Chromium	1	1	19-MAR-96	19-MAR-96	0.44	7.6		1.0	MG/KG
Cobalt	1	1	19-MAR-96	19-MAR-96	0.36	3.8	J	5.0	MG/KG
Copper	1	1	19-MAR-96	19-MAR-96	0.62	6.8		2.5	MG/KG
Iron	1	1	19-MAR-96	19-MAR-96	0.73	8760		10.0	MG/KG
Lead	1	1	19-MAR-96	19-MAR-96	0.17	4.8		0.30	MG/KG
Magnesium	1	1	19-MAR-96	19-MAR-96	9.8	3750		500	MG/KG
Manganese	1	1	19-MAR-96	19-MAR-96	0.11	137		1.5	MG/KG
Nickel	1	1	19-MAR-96	19-MAR-96	1.6	6.3		4.0	MG/KG
Potassium	1	1	19-MAR-96	19-MAR-96	201	1190		500	MG/KG
Selenium	1	1	19-MAR-96	19-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	19-MAR-96	19-MAR-96	5.7	149	J	500	MG/KG
Thallium	1	1	19-MAR-96	19-MAR-96	0.50	0.51	J	1.0	MG/KG
Vanadium	1	1	19-MAR-96	19-MAR-96	0.62	18.1		5.0	MG/KG
Zinc	1	1	19-MAR-96	19-MAR-96	0.22	22.7		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027823-02/125S:250E
Lab Sample ID : 10577-010

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	19-MAR-96	19-MAR-96	2.7	7210		20.0	MG/KG
Antimony	1	1	19-MAR-96	19-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	19-MAR-96	19-MAR-96	0.46	3.2		1.0	MG/KG
Barium	1	1	19-MAR-96	19-MAR-96	0.050	129		20.0	MG/KG
Beryllium	1	1	19-MAR-96	19-MAR-96	0.060	0.53		0.50	MG/KG
Cadmium	1	1	19-MAR-96	19-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	19-MAR-96	19-MAR-96	1.5	30600		500	MG/KG
Chromium	1	1	19-MAR-96	19-MAR-96	0.44	7.8		1.0	MG/KG
Cobalt	1	1	19-MAR-96	19-MAR-96	0.36	3.6	J	5.0	MG/KG
Copper	1	1	19-MAR-96	19-MAR-96	0.62	5.7		2.5	MG/KG
Iron	1	1	19-MAR-96	19-MAR-96	0.73	9480		10.0	MG/KG
Lead	1	1	19-MAR-96	19-MAR-96	0.17	5.2		0.30	MG/KG
Magnesium	1	1	19-MAR-96	19-MAR-96	9.8	3500		500	MG/KG
Manganese	1	1	19-MAR-96	19-MAR-96	0.11	143		1.5	MG/KG
Nickel	1	1	19-MAR-96	19-MAR-96	1.6	7.6		4.0	MG/KG
Potassium	1	1	19-MAR-96	19-MAR-96	201	1200		500	MG/KG
Selenium	1	1	19-MAR-96	19-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	19-MAR-96	19-MAR-96	5.7	232	J	500	MG/KG
Thallium	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	19-MAR-96	19-MAR-96	0.62	18.9		5.0	MG/KG
Zinc	1	1	19-MAR-96	19-MAR-96	0.22	24.0		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027824-02/150S:225E
Lab Sample ID : 10577-011

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	19-MAR-96	19-MAR-96	2.7	7700		20.0	MG/KG
Antimony	1	1	19-MAR-96	19-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	19-MAR-96	19-MAR-96	0.46	3.4		1.0	MG/KG
Barium	1	1	19-MAR-96	19-MAR-96	0.050	137		20.0	MG/KG
Beryllium	1	1	19-MAR-96	19-MAR-96	0.060	0.53		0.50	MG/KG
Cadmium	1	1	19-MAR-96	19-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	19-MAR-96	19-MAR-96	1.5	32400		500	MG/KG
Chromium	1	1	19-MAR-96	19-MAR-96	0.44	8.2		1.0	MG/KG
Cobalt	1	1	19-MAR-96	19-MAR-96	0.36	3.7	J	5.0	MG/KG
Copper	1	1	19-MAR-96	19-MAR-96	0.62	6.4		2.5	MG/KG
Iron	1	1	19-MAR-96	19-MAR-96	0.73	10200		10.0	MG/KG
Lead	1	1	19-MAR-96	19-MAR-96	0.17	4.8		0.30	MG/KG
Magnesium	1	1	19-MAR-96	19-MAR-96	9.8	3880		500	MG/KG
Manganese	1	1	19-MAR-96	19-MAR-96	0.11	153		1.5	MG/KG
Nickel	1	1	19-MAR-96	19-MAR-96	1.6	6.6		4.0	MG/KG
Potassium	1	1	19-MAR-96	19-MAR-96	201	1400		500	MG/KG
Selenium	1	1	19-MAR-96	19-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	19-MAR-96	19-MAR-96	5.7	506		500	MG/KG
Thallium	1	1	19-MAR-96	19-MAR-96	0.50	0.63	J	1.0	MG/KG
Vanadium	1	1	19-MAR-96	19-MAR-96	0.62	21.1		5.0	MG/KG
Zinc	1	1	19-MAR-96	19-MAR-96	0.22	24.4		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027825-02/175S:250E
Lab Sample ID : 10577-012

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	19-MAR-96	19-MAR-96	2.7	5810		20.0	MG/KG
Antimony	1	1	19-MAR-96	19-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	19-MAR-96	19-MAR-96	0.46	3.1		1.0	MG/KG
Barium	1	1	19-MAR-96	19-MAR-96	0.050	121		20.0	MG/KG
Beryllium	1	1	19-MAR-96	19-MAR-96	0.060	0.46	J	0.50	MG/KG
Cadmium	1	1	19-MAR-96	19-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	19-MAR-96	19-MAR-96	1.5	39700		500	MG/KG
Chromium	1	1	19-MAR-96	19-MAR-96	0.44	6.8		1.0	MG/KG
Cobalt	1	1	19-MAR-96	19-MAR-96	0.36	3.4	J	5.0	MG/KG
Copper	1	1	19-MAR-96	19-MAR-96	0.62	6.4		2.5	MG/KG
Iron	1	1	19-MAR-96	19-MAR-96	0.73	8320		10.0	MG/KG
Lead	1	1	19-MAR-96	19-MAR-96	0.17	5.3		0.30	MG/KG
Magnesium	1	1	19-MAR-96	19-MAR-96	9.8	3450		500	MG/KG
Manganese	1	1	19-MAR-96	19-MAR-96	0.11	132		1.5	MG/KG
Nickel	1	1	19-MAR-96	19-MAR-96	1.6	6.4		4.0	MG/KG
Potassium	1	1	19-MAR-96	19-MAR-96	201	1370		500	MG/KG
Selenium	1	1	19-MAR-96	19-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	19-MAR-96	19-MAR-96	5.7	79.1	J	500	MG/KG
Thallium	1	1	19-MAR-96	19-MAR-96	0.50	0.52	J	1.0	MG/KG
Vanadium	1	1	19-MAR-96	19-MAR-96	0.62	16.9		5.0	MG/KG
Zinc	1	1	19-MAR-96	19-MAR-96	0.22	23.8		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027826-02/175S:270E
Lab Sample ID : 10577-013

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	19-MAR-96	19-MAR-96	2.7	4020		20.0	MG/KG
Antimony	1	1	19-MAR-96	19-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	19-MAR-96	19-MAR-96	0.46	2.7		1.0	MG/KG
Barium	1	1	19-MAR-96	19-MAR-96	0.050	118		20.0	MG/KG
Beryllium	1	1	19-MAR-96	19-MAR-96	0.060	0.41	J	0.50	MG/KG
Cadmium	1	1	19-MAR-96	19-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	19-MAR-96	19-MAR-96	1.5	32700		500	MG/KG
Chromium	1	1	19-MAR-96	19-MAR-96	0.44	4.6		1.0	MG/KG
Cobalt	1	1	19-MAR-96	19-MAR-96	0.36	2.9	J	5.0	MG/KG
Copper	1	1	19-MAR-96	19-MAR-96	0.62	5.3		2.5	MG/KG
Iron	1	1	19-MAR-96	19-MAR-96	0.73	5630		10.0	MG/KG
Lead	1	1	19-MAR-96	19-MAR-96	0.17	4.9		0.30	MG/KG
Magnesium	1	1	19-MAR-96	19-MAR-96	9.8	2840		500	MG/KG
Manganese	1	1	19-MAR-96	19-MAR-96	0.11	118		1.5	MG/KG
Nickel	1	1	19-MAR-96	19-MAR-96	1.6	6.3		4.0	MG/KG
Potassium	1	1	19-MAR-96	19-MAR-96	201	979		500	MG/KG
Selenium	1	1	19-MAR-96	19-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	19-MAR-96	19-MAR-96	0.50	0.54	J	1.0	MG/KG
Sodium	1	1	19-MAR-96	19-MAR-96	5.7	389	J	500	MG/KG
Thallium	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	19-MAR-96	19-MAR-96	0.62	12.0		5.0	MG/KG
Zinc	1	1	19-MAR-96	19-MAR-96	0.22	17.2		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027827-02/200S:225E
Lab Sample ID : 10577-014

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	19-MAR-96	19-MAR-96	2.7	4410		20.0	MG/KG
Antimony	1	1	19-MAR-96	19-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	19-MAR-96	19-MAR-96	0.46	3.3		1.0	MG/KG
Barium	1	1	19-MAR-96	19-MAR-96	0.050	136		20.0	MG/KG
Beryllium	1	1	19-MAR-96	19-MAR-96	0.060	0.44	J	0.50	MG/KG
Cadmium	1	1	19-MAR-96	19-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	19-MAR-96	19-MAR-96	1.5	35000		500	MG/KG
Chromium	1	1	19-MAR-96	19-MAR-96	0.44	5.0		1.0	MG/KG
Cobalt	1	1	19-MAR-96	19-MAR-96	0.36	3.3	J	5.0	MG/KG
Copper	1	1	19-MAR-96	19-MAR-96	0.62	5.0		2.5	MG/KG
Iron	1	1	19-MAR-96	19-MAR-96	0.73	6720		10.0	MG/KG
Lead	1	1	19-MAR-96	19-MAR-96	0.17	4.1		0.30	MG/KG
Magnesium	1	1	19-MAR-96	19-MAR-96	9.8	3130		500	MG/KG
Manganese	1	1	19-MAR-96	19-MAR-96	0.11	174		1.5	MG/KG
Nickel	1	1	19-MAR-96	19-MAR-96	1.6	7.3		4.0	MG/KG
Potassium	1	1	19-MAR-96	19-MAR-96	201	1020		500	MG/KG
Selenium	1	1	19-MAR-96	19-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	19-MAR-96	19-MAR-96	5.7	63.3	J	500	MG/KG
Thallium	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	19-MAR-96	19-MAR-96	0.62	14.4		5.0	MG/KG
Zinc	1	1	19-MAR-96	19-MAR-96	0.22	19.1		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027828-02/200S:225E
Lab Sample ID : 10577-015

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	19-MAR-96	19-MAR-96	2.7	6940		20.0	MG/KG
Antimony	1	1	19-MAR-96	19-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	19-MAR-96	19-MAR-96	0.46	3.4		1.0	MG/KG
Barium	1	1	19-MAR-96	19-MAR-96	0.050	140		20.0	MG/KG
Beryllium	1	1	19-MAR-96	19-MAR-96	0.060	0.52		0.50	MG/KG
Cadmium	1	1	19-MAR-96	19-MAR-96	0.34	0.37	J	0.50	MG/KG
Calcium	1	1	19-MAR-96	19-MAR-96	1.5	38900		500	MG/KG
Chromium	1	1	19-MAR-96	19-MAR-96	0.44	7.4		1.0	MG/KG
Cobalt	1	1	19-MAR-96	19-MAR-96	0.36	3.6	J	5.0	MG/KG
Copper	1	1	19-MAR-96	19-MAR-96	0.62	6.2		2.5	MG/KG
Iron	1	1	19-MAR-96	19-MAR-96	0.73	9110		10.0	MG/KG
Lead	1	1	19-MAR-96	19-MAR-96	0.17	5.6		0.30	MG/KG
Magnesium	1	1	19-MAR-96	19-MAR-96	9.8	3840		500	MG/KG
Manganese	1	1	19-MAR-96	19-MAR-96	0.11	142		1.5	MG/KG
Nickel	1	1	19-MAR-96	19-MAR-96	1.6	6.5		4.0	MG/KG
Potassium	1	1	19-MAR-96	19-MAR-96	201	1290		500	MG/KG
Selenium	1	1	19-MAR-96	19-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	19-MAR-96	19-MAR-96	0.50	0.56	J	1.0	MG/KG
Sodium	1	1	19-MAR-96	19-MAR-96	5.7	83.2	J	500	MG/KG
Thallium	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	19-MAR-96	19-MAR-96	0.62	18.9		5.0	MG/KG
Zinc	1	1	19-MAR-96	19-MAR-96	0.22	22.3		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027829-02/200S:250E
Lab Sample ID : 10577-016

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : SW6010

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	19-MAR-96	19-MAR-96	2.7	6550		20.0	MG/KG
Antimony	1	1	19-MAR-96	19-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	19-MAR-96	19-MAR-96	0.46	2.6		1.0	MG/KG
Barium	1	1	19-MAR-96	19-MAR-96	0.050	94.0		20.0	MG/KG
Beryllium	1	1	19-MAR-96	19-MAR-96	0.060	0.48	J	0.50	MG/KG
Cadmium	1	1	19-MAR-96	19-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	19-MAR-96	19-MAR-96	1.5	34300		500	MG/KG
Chromium	1	1	19-MAR-96	19-MAR-96	0.44	7.1		1.0	MG/KG
Cobalt	1	1	19-MAR-96	19-MAR-96	0.36	3.2	J	5.0	MG/KG
Copper	1	1	19-MAR-96	19-MAR-96	0.62	5.5		2.5	MG/KG
Iron	1	1	19-MAR-96	19-MAR-96	0.73	8440		10.0	MG/KG
Lead	1	1	19-MAR-96	19-MAR-96	0.17	5.0		0.30	MG/KG
Magnesium	1	1	19-MAR-96	19-MAR-96	9.8	3120		500	MG/KG
Manganese	1	1	19-MAR-96	19-MAR-96	0.11	127		1.5	MG/KG
Nickel	1	1	19-MAR-96	19-MAR-96	1.6	6.3		4.0	MG/KG
Potassium	1	1	19-MAR-96	19-MAR-96	201	1490		500	MG/KG
Selenium	1	1	19-MAR-96	19-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	19-MAR-96	19-MAR-96	0.50	0.57	J	1.0	MG/KG
Sodium	1	1	19-MAR-96	19-MAR-96	5.7	385	J	500	MG/KG
Thallium	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	19-MAR-96	19-MAR-96	0.62	17.1		5.0	MG/KG
Zinc	1	1	19-MAR-96	19-MAR-96	0.22	23.5		2.0	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94465-1

Analyses Requested :
Lab Method Code :
Digestion Method :

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Aluminum	1	1	19-MAR-96	19-MAR-96	6760	6220	MG/KG	92	143	45	
Arsenic	1	1	19-MAR-96	19-MAR-96	82.5	87.0	MG/KG	106	149	49	
Barium	1	1	19-MAR-96	19-MAR-96	105	104	MG/KG	99	131	70	
Beryllium	1	1	19-MAR-96	19-MAR-96	159	160	MG/KG	100	140	64	
Cadmium	1	1	19-MAR-96	19-MAR-96	128	128	MG/KG	100	144	52	
Calcium	1	1	19-MAR-96	19-MAR-96	2540	2550	MG/KG	101	141	63	
Chromium	1	1	19-MAR-96	19-MAR-96	114	111	MG/KG	97	141	54	
Cobalt	1	1	19-MAR-96	19-MAR-96	182	190	MG/KG	105	142	60	
Copper	1	1	19-MAR-96	19-MAR-96	116	115	MG/KG	99	145	57	
Lead	1	1	19-MAR-96	19-MAR-96	87.6	82.8	MG/KG	94	142	53	
Magnesium	1	1	19-MAR-96	19-MAR-96	1970	1980	MG/KG	101	142	60	
Manganese	1	1	19-MAR-96	19-MAR-96	225	212	MG/KG	94	135	70	
Nickel	1	1	19-MAR-96	19-MAR-96	176	176	MG/KG	100	146	55	
Potassium	1	1	19-MAR-96	19-MAR-96	1900	2010	MG/KG	106	132	62	
Selenium	1	1	19-MAR-96	19-MAR-96	107	104	MG/KG	97	149	52	
Silver	1	1	19-MAR-96	19-MAR-96	71.6	73.7	MG/KG	103	145	45	
Sodium	1	1	19-MAR-96	19-MAR-96	1138	1130	MG/KG	99	120	80	
Thallium	1	1	19-MAR-96	19-MAR-96	130	165	MG/KG	127	163	37	
Vanadium	1	1	19-MAR-96	19-MAR-96	87.1	83.3	MG/KG	96	135	70	
Zinc	1	1	19-MAR-96	19-MAR-96	143	146	MG/KG	102	149	54	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94465-2

Analyses Requested :
Lab Method Code :
Digestion Method :

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Aluminum	1	1	19-MAR-96	19-MAR-96	6760	7110	MG/KG	105	20	0	13.4
Arsenic	1	1	19-MAR-96	19-MAR-96	82.5	89.1	MG/KG	108	20	0	2.4
Barium	1	1	19-MAR-96	19-MAR-96	105	108	MG/KG	103	20	0	3.8
Beryllium	1	1	19-MAR-96	19-MAR-96	159	163	MG/KG	102	20	0	1.9
Cadmium	1	1	19-MAR-96	19-MAR-96	128	130	MG/KG	102	20	0	1.6
Calcium	1	1	19-MAR-96	19-MAR-96	2540	2670	MG/KG	105	20	0	4.6
Chromium	1	1	19-MAR-96	19-MAR-96	114	115	MG/KG	101	20	0	3.5
Cobalt	1	1	19-MAR-96	19-MAR-96	182	194	MG/KG	106	20	0	2.1
Copper	1	1	19-MAR-96	19-MAR-96	116	118	MG/KG	102	20	0	2.6
Lead	1	1	19-MAR-96	19-MAR-96	87.6	84.7	MG/KG	97	20	0	2.3
Magnesium	1	1	19-MAR-96	19-MAR-96	1970	2120	MG/KG	108	20	0	6.8
Manganese	1	1	19-MAR-96	19-MAR-96	225	229	MG/KG	102	20	0	7.7
Nickel	1	1	19-MAR-96	19-MAR-96	176	179	MG/KG	102	20	0	1.7
Potassium	1	1	19-MAR-96	19-MAR-96	1900	2220	MG/KG	117	20	0	9.9
Selenium	1	1	19-MAR-96	19-MAR-96	107	107	MG/KG	100	20	0	2.8
Silver	1	1	19-MAR-96	19-MAR-96	71.6	75.0	MG/KG	105	20	0	1.8
Sodium	1	1	19-MAR-96	19-MAR-96	1138	1160	MG/KG	102	20	0	2.6
Thallium	1	1	19-MAR-96	19-MAR-96	130	168	MG/KG	130	20	0	1.8
Vanadium	1	1	19-MAR-96	19-MAR-96	87.1	91.9	MG/KG	106	20	0	9.8
Zinc	1	1	19-MAR-96	19-MAR-96	143	152	MG/KG	106	20	0	4

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94465-3

Analyses Requested :
Lab Method Code :
Digestion Method :

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Antimony	1	1	19-MAR-96	19-MAR-96	100	97.3	MG/KG	97	120	80	
Iron	1	1	19-MAR-96	19-MAR-96	100	102	MG/KG	102	120	80	

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Supplier Services for AJ-2480B
P.O. Box 5130
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Client Sample ID : NA
Lab Sample ID : QCLCS94465-4

Analyses Requested :
Lab Method Code :
Digestion Method :

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Antimony	1	1	19-MAR-96	19-MAR-96	100	97.0	MG/KG	97	20	0	.3
Iron	1	1	19-MAR-96	19-MAR-96	100	100	MG/KG	100	20	0	2

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
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Client Sample ID : 027822-02/100S:250E
Lab Sample ID : 10577-009

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	19-MAR-96	19-MAR-96	0.050	ND	U	0.10	MG/KG

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027823-02/125S:250E
Lab Sample ID : 10577-010

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	19-MAR-96	19-MAR-96	0.050	ND	U	0.10	MG/KG

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Supplier Services for AJ-2480B
P.O. Box 5130
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Client Sample ID : 027824-02/150S:225E
Lab Sample ID : 10577-011

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	19-MAR-96	19-MAR-96	0.050	ND	U	0.10	MG/KG

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94465-1

Analyses Requested :
Lab Method Code :
Digestion Method :

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94465

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	19-MAR-96	19-MAR-96	2.7	5.7	J	20.0	MG/KG
Antimony	1	1	19-MAR-96	19-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	19-MAR-96	19-MAR-96	0.46	ND	U	1.0	MG/KG
Barium	1	1	19-MAR-96	19-MAR-96	0.050	-0.083	J	20.0	MG/KG
Beryllium	1	1	19-MAR-96	19-MAR-96	0.060	ND	U	0.50	MG/KG
Cadmium	1	1	19-MAR-96	19-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	19-MAR-96	19-MAR-96	1.5	3.1	J	500	MG/KG
Chromium	1	1	19-MAR-96	19-MAR-96	0.44	ND	U	1.0	MG/KG
Cobalt	1	1	19-MAR-96	19-MAR-96	0.36	ND	U	5.0	MG/KG
Copper	1	1	19-MAR-96	19-MAR-96	0.62	ND	U	2.5	MG/KG
Iron	1	1	19-MAR-96	19-MAR-96	0.73	1.9	J	10.0	MG/KG
Lead	1	1	19-MAR-96	19-MAR-96	0.17	ND	U	0.30	MG/KG
Magnesium	1	1	19-MAR-96	19-MAR-96	9.8	ND	U	500	MG/KG
Manganese	1	1	19-MAR-96	19-MAR-96	0.11	ND	U	1.5	MG/KG
Nickel	1	1	19-MAR-96	19-MAR-96	1.6	ND	U	4.0	MG/KG
Potassium	1	1	19-MAR-96	19-MAR-96	201	ND	U	500	MG/KG
Selenium	1	1	19-MAR-96	19-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	19-MAR-96	19-MAR-96	5.7	ND	U	500	MG/KG
Thallium	1	1	19-MAR-96	19-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	19-MAR-96	19-MAR-96	0.62	ND	U	5.0	MG/KG
Zinc	1	1	19-MAR-96	19-MAR-96	0.22	ND	U	2.0	MG/KG

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027825-02/175S:250E
Lab Sample ID : 10577-012

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	19-MAR-96	19-MAR-96	0.050	ND	U	0.10	MG/KG

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027826-02/175S:270E
Lab Sample ID : 10577-013

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	19-MAR-96	19-MAR-96	0.050	ND	U	0.10	MG/KG

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027827-02/200S:225E
Lab Sample ID : 10577-014

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	19-MAR-96	19-MAR-96	0.050	ND	U	0.10	MG/KG

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Client Sample ID : 027828-02/200S:225E
Lab Sample ID : 10577-015

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	19-MAR-96	19-MAR-96	0.050	ND	U	0.10	MG/KG

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Client Sample ID : 027829-02/200S:250E
Lab Sample ID : 10577-016

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	19-MAR-96	19-MAR-96	0.050	ND	U	0.10	MG/KG

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Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94463-1

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	19-MAR-96	19-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94463-1

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Mercury	.2	1	19-MAR-96	19-MAR-96	2.3	2.4	MG/KG	104	156	48	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94463-2

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94463

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Mercury	.2	1	19-MAR-96	19-MAR-96	2.3	2.4	MG/KG	104	20	0	0

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027822-02/100S:250E
Lab Sample ID : 10577-009

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30	1	18-MAR-96	25-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30	1	18-MAR-96	25-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30	1	18-MAR-96	25-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30	1	18-MAR-96	25-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30	1	18-MAR-96	25-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30	1	18-MAR-96	25-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30	1	18-MAR-96	25-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30	1	18-MAR-96	25-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30	1	18-MAR-96	25-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30	1	18-MAR-96	25-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027822-02/100S:250E
Lab Sample ID : 10577-009

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30	1	18-MAR-96	25-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30	1	18-MAR-96	25-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30	1	18-MAR-96	25-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30	1	18-MAR-96	25-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30	1	18-MAR-96	25-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30	1	18-MAR-96	25-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30	1	18-MAR-96	25-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30	1	18-MAR-96	25-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30	1	18-MAR-96	25-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30	1	18-MAR-96	25-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027822-02/100S:250E
Lab Sample ID : 10577-009

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30	1	18-MAR-96	25-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30	1	18-MAR-96	25-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30	1	18-MAR-96	25-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Fluoranthene	30	1	18-MAR-96	25-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30	1	18-MAR-96	25-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30	1	18-MAR-96	25-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30	1	18-MAR-96	25-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30	1	18-MAR-96	25-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30	1	18-MAR-96	25-MAR-96		41			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027822-02/100S:250E
Lab Sample ID : 10577-009

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30	1	18-MAR-96	25-MAR-96		36			UG/KG	
Terphenyl-d14	30	1	18-MAR-96	25-MAR-96		30			UG/KG	
Phenol-d5	30	1	18-MAR-96	25-MAR-96		57			UG/KG	
2-Fluorophenol	30	1	18-MAR-96	25-MAR-96		56			UG/KG	
2,4,6-Tribromophenol	30	1	18-MAR-96	25-MAR-96		61			UG/KG	

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P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027823-02/125S:250E
Lab Sample ID : 10577-010

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30	1	18-MAR-96	25-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30	1	18-MAR-96	25-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30	1	18-MAR-96	25-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30	1	18-MAR-96	25-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30	1	18-MAR-96	25-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30	1	18-MAR-96	25-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30	1	18-MAR-96	25-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30	1	18-MAR-96	25-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30	1	18-MAR-96	25-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30	1	18-MAR-96	25-MAR-96	30	ND	U	330	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027823-02/125S:250E
Lab Sample ID : 10577-010

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30	1	18-MAR-96	25-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30	1	18-MAR-96	25-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30	1	18-MAR-96	25-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30	1	18-MAR-96	25-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30	1	18-MAR-96	25-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30	1	18-MAR-96	25-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30	1	18-MAR-96	25-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30	1	18-MAR-96	25-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30	1	18-MAR-96	25-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30	1	18-MAR-96	25-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027823-02/125S:250E
Lab Sample ID : 10577-010

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30	1	18-MAR-96	25-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30	1	18-MAR-96	25-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30	1	18-MAR-96	25-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Fluoranthene	30	1	18-MAR-96	25-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30	1	18-MAR-96	25-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30	1	18-MAR-96	25-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30	1	18-MAR-96	25-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30	1	18-MAR-96	25-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30	1	18-MAR-96	25-MAR-96		36			UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027823-02/125S:250E
Lab Sample ID : 10577-010

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30	1	18-MAR-96	25-MAR-96		32			UG/KG	
Terphenyl-d14	30	1	18-MAR-96	25-MAR-96		26			UG/KG	
Phenol-d5	30	1	18-MAR-96	25-MAR-96		52			UG/KG	
2-Fluorophenol	30	1	18-MAR-96	25-MAR-96		50			UG/KG	
2,4,6-Tribromophenol	30	1	18-MAR-96	25-MAR-96		53			UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
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Client Sample ID : 027824-02/150S:225E
Lab Sample ID : 10577-011

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.1	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.1	1	18-MAR-96	25-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.1	1	18-MAR-96	25-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.1	1	18-MAR-96	25-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.1	1	18-MAR-96	25-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.1	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.1	1	18-MAR-96	25-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.1	1	18-MAR-96	25-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.1	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.1	1	18-MAR-96	25-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.1	1	18-MAR-96	25-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.1	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30.1	1	18-MAR-96	25-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.1	1	18-MAR-96	25-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.1	1	18-MAR-96	25-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.1	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.1	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.1	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30.1	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.1	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.1	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.1	1	18-MAR-96	25-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027824-02/150S:225E
Lab Sample ID : 10577-011

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.1	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.1	1	18-MAR-96	25-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.1	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.1	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.1	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.1	1	18-MAR-96	25-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.1	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.1	1	18-MAR-96	25-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.1	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.1	1	18-MAR-96	25-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.1	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.1	1	18-MAR-96	25-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.1	1	18-MAR-96	25-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.1	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.1	1	18-MAR-96	25-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.1	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.1	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30.1	1	18-MAR-96	25-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.1	1	18-MAR-96	25-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.1	1	18-MAR-96	25-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.1	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.1	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	

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Supplier Services for AJ-2480B
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Client Sample ID : 027824-02/150S:225E
Lab Sample ID : 10577-011

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.1	1	18-MAR-96	25-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.1	1	18-MAR-96	25-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.1	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30.1	1	18-MAR-96	25-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30.1	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.1	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.1	1	18-MAR-96	25-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30.1	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.1	1	18-MAR-96	25-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.1	1	18-MAR-96	25-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.1	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30.1	1	18-MAR-96	25-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.1	1	18-MAR-96	25-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.1	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.1	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.1	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.1	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.1	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.1	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.1	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.1	1	18-MAR-96	25-MAR-96		38			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027824-02/150S:225E
Lab Sample ID : 10577-011

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.1	1	18-MAR-96	25-MAR-96		34			UG/KG	
Terphenyl-d14	30.1	1	18-MAR-96	25-MAR-96		28			UG/KG	
Phenol-d5	30.1	1	18-MAR-96	25-MAR-96		53			UG/KG	
2-Fluorophenol	30.1	1	18-MAR-96	25-MAR-96		52			UG/KG	
2,4,6-Tribromophenol	30.1	1	18-MAR-96	25-MAR-96		56			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027825-02/175S:250E
Lab Sample ID : 10577-012

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30	1	18-MAR-96	25-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30	1	18-MAR-96	25-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30	1	18-MAR-96	25-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30	1	18-MAR-96	25-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30	1	18-MAR-96	25-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30	1	18-MAR-96	25-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30	1	18-MAR-96	25-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30	1	18-MAR-96	25-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30	1	18-MAR-96	25-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30	1	18-MAR-96	25-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027825-02/175S:250E
Lab Sample ID : 10577-012

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30	1	18-MAR-96	25-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30	1	18-MAR-96	25-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30	1	18-MAR-96	25-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30	1	18-MAR-96	25-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30	1	18-MAR-96	25-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30	1	18-MAR-96	25-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30	1	18-MAR-96	25-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30	1	18-MAR-96	25-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30	1	18-MAR-96	25-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30	1	18-MAR-96	25-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027825-02/175S:250E
Lab Sample ID : 10577-012

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30	1	18-MAR-96	25-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30	1	18-MAR-96	25-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30	1	18-MAR-96	25-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Fluoranthene	30	1	18-MAR-96	25-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30	1	18-MAR-96	25-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30	1	18-MAR-96	25-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30	1	18-MAR-96	25-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30	1	18-MAR-96	25-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30	1	18-MAR-96	25-MAR-96		41			UG/KG	

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Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027825-02/175S:250E
Lab Sample ID : 10577-012

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30	1	18-MAR-96	25-MAR-96		38			UG/KG	
Terphenyl-d14	30	1	18-MAR-96	25-MAR-96		28			UG/KG	
Phenol-d5	30	1	18-MAR-96	25-MAR-96		57			UG/KG	
2-Fluorophenol	30	1	18-MAR-96	25-MAR-96		53			UG/KG	
2,4,6-Tribromophenol	30	1	18-MAR-96	25-MAR-96		58			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027826-02/175S:270E
Lab Sample ID : 10577-013

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.1	5	18-MAR-96	02-APR-96	250	ND	U	1600	UG/KG	
bis(2-Chloroethyl)Ether	30.1	5	18-MAR-96	02-APR-96	450	ND	U	1600	UG/KG	
2-Chlorophenol	30.1	5	18-MAR-96	02-APR-96	340	ND	U	1600	UG/KG	
1,3-Dichlorobenzene	30.1	5	18-MAR-96	02-APR-96	420	ND	U	1600	UG/KG	
1,4-Dichlorobenzene	30.1	5	18-MAR-96	02-APR-96	390	ND	U	1600	UG/KG	
1,2-Dichlorobenzene	30.1	5	18-MAR-96	02-APR-96	430	ND	U	1600	UG/KG	
2-Methylphenol	30.1	5	18-MAR-96	02-APR-96	280	ND	U	1600	UG/KG	
bis(2-Chloroisopropyl)Ether	30.1	5	18-MAR-96	02-APR-96	480	ND	U	1600	UG/KG	
4-Methylphenol	30.1	5	18-MAR-96	02-APR-96	250	ND	U	1600	UG/KG	
N-nitroso-di-n-propylamine	30.1	5	18-MAR-96	02-APR-96	290	ND	U	1600	UG/KG	
Hexachloroethane	30.1	5	18-MAR-96	02-APR-96	450	ND	U	1600	UG/KG	
Nitrobenzene	30.1	5	18-MAR-96	02-APR-96	400	ND	U	1600	UG/KG	
Isophorone	30.1	5	18-MAR-96	02-APR-96	270	ND	U	1600	UG/KG	
2-Nitrophenol	30.1	5	18-MAR-96	02-APR-96	380	ND	U	1600	UG/KG	
2,4-Dimethylphenol	30.1	5	18-MAR-96	02-APR-96	410	ND	U	1600	UG/KG	
bis(2-Chloroethoxy)Methane	30.1	5	18-MAR-96	02-APR-96	320	ND	U	1600	UG/KG	
2,4-Dichlorophenol	30.1	5	18-MAR-96	02-APR-96	170	ND	U	1600	UG/KG	
1,2,4-Trichlorobenzene	30.1	5	18-MAR-96	02-APR-96	430	ND	U	1600	UG/KG	
Naphthalene	30.1	5	18-MAR-96	02-APR-96	400	ND	U	1600	UG/KG	
4-Chloroaniline	30.1	5	18-MAR-96	02-APR-96	260	ND	U	1600	UG/KG	
Hexachlorobutadiene	30.1	5	18-MAR-96	02-APR-96	430	ND	U	1600	UG/KG	
4-Chloro-3-Methylphenol	30.1	5	18-MAR-96	02-APR-96	150	ND	U	1600	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027826-02/175S:270E
Lab Sample ID : 10577-013

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.1	5	18-MAR-96	02-APR-96	320	ND	U	1600	UG/KG	
Hexachlorocyclopentadiene	30.1	5	18-MAR-96	02-APR-96	650	ND	U	8000	UG/KG	
2,4,6-Trichlorophenol	30.1	5	18-MAR-96	02-APR-96	180	ND	U	1600	UG/KG	
2,4,5-Trichlorophenol	30.1	5	18-MAR-96	02-APR-96	160	ND	U	1600	UG/KG	
2-Chloronaphthalene	30.1	5	18-MAR-96	02-APR-96	200	ND	U	1600	UG/KG	
2-Nitroaniline	30.1	5	18-MAR-96	02-APR-96	230	ND	U	8000	UG/KG	
DimethylPhthalate	30.1	5	18-MAR-96	02-APR-96	220	ND	U	1600	UG/KG	
Acenaphthylene	30.1	5	18-MAR-96	02-APR-96	220	ND	U	1600	UG/KG	
2,6-Dinitrotoluene	30.1	5	18-MAR-96	02-APR-96	200	ND	U	1600	UG/KG	
3-Nitroaniline	30.1	5	18-MAR-96	02-APR-96	180	ND	U	8000	UG/KG	
Acenaphthene	30.1	5	18-MAR-96	02-APR-96	200	ND	U	1600	UG/KG	
2,4-Dinitrophenol	30.1	5	18-MAR-96	02-APR-96	340	ND	U	8000	UG/KG	
4-Nitrophenol	30.1	5	18-MAR-96	02-APR-96	2000	ND	U	8000	UG/KG	
Dibenzofuran	30.1	5	18-MAR-96	02-APR-96	160	ND	U	1600	UG/KG	
2,4-Dinitrotoluene	30.1	5	18-MAR-96	02-APR-96	240	ND	U	1600	UG/KG	
Diethylphthalate	30.1	5	18-MAR-96	02-APR-96	160	ND	U	1600	UG/KG	
4-Chlorophenyl-PhenylEther	30.1	5	18-MAR-96	02-APR-96	170	ND	U	1600	UG/KG	
Fluorene	30.1	5	18-MAR-96	02-APR-96	200	ND	U	1600	UG/KG	
4-Nitroaniline	30.1	5	18-MAR-96	02-APR-96	260	ND	U	8000	UG/KG	
4,6-Dinitro-2-Methylphenol	30.1	5	18-MAR-96	02-APR-96	190	ND	U	8000	UG/KG	
n-Nitrosodiphenylamine	30.1	5	18-MAR-96	02-APR-96	200	ND	U	1600	UG/KG	
4-Bromophenyl-Phenyl Ether	30.1	5	18-MAR-96	02-APR-96	160	ND	U	1600	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027826-02/175S:270E
Lab Sample ID : 10577-013

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.1	5	18-MAR-96	02-APR-96	240	ND	U	1600	UG/KG	
Pentachlorophenol	30.1	5	18-MAR-96	02-APR-96	220	ND	U	8000	UG/KG	
Phenanthrene	30.1	5	18-MAR-96	02-APR-96	200	ND	U	1600	UG/KG	
Anthracene	30.1	5	18-MAR-96	02-APR-96	180	ND	U	1600	UG/KG	
Carbazole	30.1	5	18-MAR-96	02-APR-96	180	ND	U	1600	UG/KG	
Di-N-Butylphthalate	30.1	5	18-MAR-96	02-APR-96	180	ND	U	1600	UG/KG	
Fluoranthene	30.1	5	18-MAR-96	02-APR-96	190	ND	U	1600	UG/KG	
Pyrene	30.1	5	18-MAR-96	02-APR-96	160	ND	U	1600	UG/KG	
ButylBenzylPhthalate	30.1	5	18-MAR-96	02-APR-96	210	ND	U	1600	UG/KG	
3,3'-Dichlorobenzidine	30.1	5	18-MAR-96	02-APR-96	280	ND	U	8000	UG/KG	
Benzo(a)Anthracene	30.1	5	18-MAR-96	02-APR-96	160	ND	U	1600	UG/KG	
Chrysene	30.1	5	18-MAR-96	02-APR-96	180	ND	U	1600	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.1	5	18-MAR-96	02-APR-96	280	ND	U	1600	UG/KG	
di-N-OctylPhthalate	30.1	5	18-MAR-96	02-APR-96	260	ND	U	1600	UG/KG	
Benzo(b)Fluoranthene	30.1	5	18-MAR-96	02-APR-96	220	ND	U	1600	UG/KG	
Benzo(k)Fluoranthene	30.1	5	18-MAR-96	02-APR-96	250	ND	U	1600	UG/KG	
Benzo(a)Pyrene	30.1	5	18-MAR-96	02-APR-96	220	ND	U	1600	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.1	5	18-MAR-96	02-APR-96	220	ND	U	1600	UG/KG	
Dibenz(a,h)Anthracene	30.1	5	18-MAR-96	02-APR-96	200	ND	U	1600	UG/KG	
Benzo(g,h,i)Perylene	30.1	5	18-MAR-96	02-APR-96	240	ND	U	1600	UG/KG	
Nitrobenzene-d5	30.1	5	18-MAR-96	02-APR-96		200			UG/KG	

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Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027826-02/175S:270E
Lab Sample ID : 10577-013

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.1	5	18-MAR-96	02-APR-96		210			UG/KG	
Terphenyl-d14	30.1	5	18-MAR-96	02-APR-96		180			UG/KG	
Phenol-d5	30.1	5	18-MAR-96	02-APR-96		280			UG/KG	
2-Fluorophenol	30.1	5	18-MAR-96	02-APR-96		280			UG/KG	
2,4,6-Tribromophenol	30.1	5	18-MAR-96	02-APR-96		250			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027827-02/200S:225E
Lab Sample ID : 10577-014

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retentio Time
Phenol	30.2	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.2	1	18-MAR-96	25-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.2	1	18-MAR-96	25-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.2	1	18-MAR-96	25-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.2	1	18-MAR-96	25-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.2	1	18-MAR-96	25-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.2	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30.2	1	18-MAR-96	25-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.2	1	18-MAR-96	25-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.2	1	18-MAR-96	25-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.2	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.2	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30.2	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.2	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.2	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027827-02/200S:225E
Lab Sample ID : 10577-014

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retentio Time
2-Methylnaphthalene	30.2	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.2	1	18-MAR-96	25-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.2	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.2	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.2	1	18-MAR-96	25-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.2	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.2	1	18-MAR-96	25-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.2	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.2	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.2	1	18-MAR-96	25-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.2	1	18-MAR-96	25-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.2	1	18-MAR-96	25-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.2	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30.2	1	18-MAR-96	25-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.2	1	18-MAR-96	25-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.2	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027827-02/200S:225E
Lab Sample ID : 10577-014

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retentior Time
Hexachlorobenzene	30.2	1	18-MAR-96	25-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.2	1	18-MAR-96	25-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.2	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30.2	1	18-MAR-96	25-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.2	1	18-MAR-96	25-MAR-96	36	38	J	330	UG/KG	
Fluoranthene	30.2	1	18-MAR-96	25-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.2	1	18-MAR-96	25-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.2	1	18-MAR-96	25-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.2	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30.2	1	18-MAR-96	25-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.2	1	18-MAR-96	25-MAR-96	57	38	J	330	UG/KG	
di-N-OctylPhthalate	30.2	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.2	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.2	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.2	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.2	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.2	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.2	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.2	1	18-MAR-96	25-MAR-96		37			UG/KG	

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Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027827-02/200S:225E
Lab Sample ID : 10577-014

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retentior Time
2-Fluorobiphenyl	30.2	1	18-MAR-96	25-MAR-96		32			UG/KG	
Terphenyl-d14	30.2	1	18-MAR-96	25-MAR-96		28			UG/KG	
Phenol-d5	30.2	1	18-MAR-96	25-MAR-96		53			UG/KG	
2-Fluorophenol	30.2	1	18-MAR-96	25-MAR-96		52			UG/KG	
2,4,6-Tribromophenol	30.2	1	18-MAR-96	25-MAR-96		56			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027828-02/200S:225E
Lab Sample ID : 10577-015

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retentior Time
Phenol	30.2	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.2	1	18-MAR-96	25-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.2	1	18-MAR-96	25-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.2	1	18-MAR-96	25-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.2	1	18-MAR-96	25-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.2	1	18-MAR-96	25-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.2	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30.2	1	18-MAR-96	25-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.2	1	18-MAR-96	25-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.2	1	18-MAR-96	25-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.2	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.2	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30.2	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.2	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.2	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027828-02/200S:225E
Lab Sample ID : 10577-015

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.2	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.2	1	18-MAR-96	25-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.2	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.2	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.2	1	18-MAR-96	25-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.2	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.2	1	18-MAR-96	25-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.2	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.2	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.2	1	18-MAR-96	25-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.2	1	18-MAR-96	25-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.2	1	18-MAR-96	25-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.2	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30.2	1	18-MAR-96	25-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.2	1	18-MAR-96	25-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.2	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027828-02/200S:225E
Lab Sample ID : 10577-015

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.2	1	18-MAR-96	25-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.2	1	18-MAR-96	25-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.2	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30.2	1	18-MAR-96	25-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.2	1	18-MAR-96	25-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.2	1	18-MAR-96	25-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.2	1	18-MAR-96	25-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.2	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30.2	1	18-MAR-96	25-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.2	1	18-MAR-96	25-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.2	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.2	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.2	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.2	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.2	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.2	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.2	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.2	1	18-MAR-96	25-MAR-96		40			UG/KG	

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Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027828-02/200S:225E
Lab Sample ID : 10577-015

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.2	1	18-MAR-96	25-MAR-96		35			UG/KG	
Terphenyl-d14	30.2	1	18-MAR-96	25-MAR-96		30			UG/KG	
Phenol-d5	30.2	1	18-MAR-96	25-MAR-96		58			UG/KG	
2-Fluorophenol	30.2	1	18-MAR-96	25-MAR-96		54			UG/KG	
2,4,6-Tribromophenol	30.2	1	18-MAR-96	25-MAR-96		59			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027829-02/200S:250E
Lab Sample ID : 10577-016

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.2	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.2	1	18-MAR-96	25-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.2	1	18-MAR-96	25-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.2	1	18-MAR-96	25-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.2	1	18-MAR-96	25-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.2	1	18-MAR-96	25-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.2	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30.2	1	18-MAR-96	25-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.2	1	18-MAR-96	25-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.2	1	18-MAR-96	25-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.2	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.2	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.2	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30.2	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.2	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.2	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027829-02/200S:250E
Lab Sample ID : 10577-016

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retentio Time
2-Methylnaphthalene	30.2	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.2	1	18-MAR-96	25-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.2	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.2	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.2	1	18-MAR-96	25-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.2	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.2	1	18-MAR-96	25-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.2	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.2	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.2	1	18-MAR-96	25-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.2	1	18-MAR-96	25-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.2	1	18-MAR-96	25-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.2	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30.2	1	18-MAR-96	25-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.2	1	18-MAR-96	25-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.2	1	18-MAR-96	25-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.2	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027829-02/200S:250E
Lab Sample ID : 10577-016

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.2	1	18-MAR-96	25-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.2	1	18-MAR-96	25-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.2	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30.2	1	18-MAR-96	25-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.2	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.2	1	18-MAR-96	25-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30.2	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.2	1	18-MAR-96	25-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.2	1	18-MAR-96	25-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.2	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30.2	1	18-MAR-96	25-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.2	1	18-MAR-96	25-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.2	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.2	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.2	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.2	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.2	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.2	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.2	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.2	1	18-MAR-96	25-MAR-96		20			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027829-02/200S:250E
Lab Sample ID : 10577-016

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retentio Time
2-Fluorobiphenyl	30.2	1	18-MAR-96	25-MAR-96		18			UG/KG	
Terphenyl-d14	30.2	1	18-MAR-96	25-MAR-96		14			UG/KG	
Phenol-d5	30.2	1	18-MAR-96	25-MAR-96		32			UG/KG	
2-Fluorophenol	30.2	1	18-MAR-96	25-MAR-96		33			UG/KG	
2,4,6-Tribromophenol	30.2	1	18-MAR-96	25-MAR-96		20			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94310-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retentior Time
Phenol	30	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30	1	18-MAR-96	25-MAR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30	1	18-MAR-96	25-MAR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30	1	18-MAR-96	25-MAR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30	1	18-MAR-96	25-MAR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30	1	18-MAR-96	25-MAR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30	1	18-MAR-96	25-MAR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
Isophorone	30	1	18-MAR-96	25-MAR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30	1	18-MAR-96	25-MAR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30	1	18-MAR-96	25-MAR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
Naphthalene	30	1	18-MAR-96	25-MAR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30	1	18-MAR-96	25-MAR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30	1	18-MAR-96	25-MAR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94310-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30	1	18-MAR-96	25-MAR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30	1	18-MAR-96	25-MAR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30	1	18-MAR-96	25-MAR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30	1	18-MAR-96	25-MAR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30	1	18-MAR-96	25-MAR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30	1	18-MAR-96	25-MAR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30	1	18-MAR-96	25-MAR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30	1	18-MAR-96	25-MAR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30	1	18-MAR-96	25-MAR-96	34	ND	U	330	UG/KG	
Fluorene	30	1	18-MAR-96	25-MAR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30	1	18-MAR-96	25-MAR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30	1	18-MAR-96	25-MAR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30	1	18-MAR-96	25-MAR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94310-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30	1	18-MAR-96	25-MAR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30	1	18-MAR-96	25-MAR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Anthracene	30	1	18-MAR-96	25-MAR-96	37	ND	U	330	UG/KG	
Carbazole	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30	1	18-MAR-96	25-MAR-96	36	ND	U	330	UG/KG	
Fluoranthene	30	1	18-MAR-96	25-MAR-96	38	ND	U	330	UG/KG	
Pyrene	30	1	18-MAR-96	25-MAR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30	1	18-MAR-96	25-MAR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30	1	18-MAR-96	25-MAR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30	1	18-MAR-96	25-MAR-96	32	ND	U	330	UG/KG	
Chrysene	30	1	18-MAR-96	25-MAR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30	1	18-MAR-96	25-MAR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30	1	18-MAR-96	25-MAR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30	1	18-MAR-96	25-MAR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30	1	18-MAR-96	25-MAR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30	1	18-MAR-96	25-MAR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30	1	18-MAR-96	25-MAR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30	1	18-MAR-96	25-MAR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30	1	18-MAR-96	25-MAR-96		38			UG/KG	

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Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94310-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30	1	18-MAR-96	25-MAR-96		34			UG/KG	
Terphenyl-d14	30	1	18-MAR-96	25-MAR-96		32			UG/KG	
Phenol-d5	30	1	18-MAR-96	25-MAR-96		54			UG/KG	
2-Fluorophenol	30	1	18-MAR-96	25-MAR-96		50			UG/KG	
2,4,6-Tribromophenol	30	1	18-MAR-96	25-MAR-96		60			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCSPK94310-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Phenol	30	1	18-MAR-96	25-MAR-96	2500	1900	UG/KG	75	112	5	
2-Chlorophenol	30	1	18-MAR-96	25-MAR-96	2500	2100	UG/KG	83	134	23	
1,4-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	1700	1100	UG/KG	68	121	19	
N-nitroso-di-n-propylamine	30	1	18-MAR-96	25-MAR-96	1700	1100	UG/KG	67	209	1	
1,2,4-Trichlorobenzene	30	1	18-MAR-96	25-MAR-96	1700	1300	UG/KG	76	142	43	
4-Chloro-3-Methylphenol	30	1	18-MAR-96	25-MAR-96	2500	2000	UG/KG	80	147	22	
Acenaphthene	30	1	18-MAR-96	25-MAR-96	1700	1100	UG/KG	65	142	50	
4-Nitrophenol	30	1	18-MAR-96	25-MAR-96	2500	2200	UG/KG	88	132	1	
2,4-Dinitrotoluene	30	1	18-MAR-96	25-MAR-96	1700	1200	UG/KG	73	132	33	
Pentachlorophenol	30	1	18-MAR-96	25-MAR-96	2500	1600	UG/KG	65	176	14	
Pyrene	30	1	18-MAR-96	25-MAR-96	1700	1200	UG/KG	72	116	52	
Nitrobenzene-d5	30	1	18-MAR-96	25-MAR-96	50	38	UG/KG	76	120	23	
2-Fluorobiphenyl	30	1	18-MAR-96	25-MAR-96	50	35	UG/KG	70	115	30	
Terphenyl-d14	30	1	18-MAR-96	25-MAR-96	50	32	UG/KG	64	137	18	
Phenol-d5	30	1	18-MAR-96	25-MAR-96	75	58	UG/KG	78	113	24	
2-Fluorophenol	30	1	18-MAR-96	25-MAR-96	75	52	UG/KG	70	121	25	
2,4,6-Tribromophenol	30	1	18-MAR-96	25-MAR-96	75	64	UG/KG	85	122	19	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCSPK94310-2

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94310

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Phenol	30	1	18-MAR-96	25-MAR-96	2500	1900	UG/KG	77	35	0	3
2-Chlorophenol	30	1	18-MAR-96	25-MAR-96	2500	2100	UG/KG	84	50	0	1
1,4-Dichlorobenzene	30	1	18-MAR-96	25-MAR-96	1700	1200	UG/KG	70	27	0	3
N-nitroso-di-n-propylamine	30	1	18-MAR-96	25-MAR-96	1700	1200	UG/KG	70	38	0	3
1,2,4-Trichlorobenzene	30	1	18-MAR-96	25-MAR-96	1700	1300	UG/KG	76	23	0	0
4-Chloro-3-Methylphenol	30	1	18-MAR-96	25-MAR-96	2500	2000	UG/KG	80	33	0	0
Acenaphthene	30	1	18-MAR-96	25-MAR-96	1700	1100	UG/KG	65	19	0	0
4-Nitrophenol	30	1	18-MAR-96	25-MAR-96	2500	2200	UG/KG	88	50	0	0
2,4-Dinitrotoluene	30	1	18-MAR-96	25-MAR-96	1700	1200	UG/KG	75	47	0	3
Pentachlorophenol	30	1	18-MAR-96	25-MAR-96	2500	1700	UG/KG	67	47	0	3
Pyrene	30	1	18-MAR-96	25-MAR-96	1700	1200	UG/KG	70	36	0	3
Nitrobenzene-d5	30	1	18-MAR-96	25-MAR-96	50	40	UG/KG	79	120	23	
2-Fluorobiphenyl	30	1	18-MAR-96	25-MAR-96	50	36	UG/KG	73	115	30	
Terphenyl-d14	30	1	18-MAR-96	25-MAR-96	50	30	UG/KG	61	137	18	
Phenol-d5	30	1	18-MAR-96	25-MAR-96	75	59	UG/KG	79	113	24	
2-Fluorophenol	30	1	18-MAR-96	25-MAR-96	75	55	UG/KG	73	121	25	
2,4,6-Tribromophenol	30	1	18-MAR-96	25-MAR-96	75	68	UG/KG	91	122	19	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027822-01/100S:250E
Lab Sample ID : 10577-001

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	13	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027822-01/100S:250E
Lab Sample ID : 10577-001

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027822-01/100S:250E
Lab Sample ID : 10577-001

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		52			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		46			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		50			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027823-01/125S:250E
Lab Sample ID : 10577-002

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	12	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027823-01/125S:250E
Lab Sample ID : 10577-002

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027823-01/125S:250E
Lab Sample ID : 10577-002

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		54			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		48			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		50			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027824-01/150S:225E
Lab Sample ID : 10577-003

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027824-01/150S:225E
Lab Sample ID : 10577-003

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027824-01/150S:225E
Lab Sample ID : 10577-003

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		50			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		46			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		52			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027824-01/150S:225E
Lab Sample ID : 10577-003RE

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	20-MAR-96	20-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	20-MAR-96	20-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	20-MAR-96	20-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	20-MAR-96	20-MAR-96	7	13	BJ	20	UG/KG	
Trichlorofluoromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	20-MAR-96	20-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027824-01/150S:225E
Lab Sample ID : 10577-003RE

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	20-MAR-96	20-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	20-MAR-96	20-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027824-01/150S:225E
Lab Sample ID : 10577-003RE

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	20-MAR-96	20-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	20-MAR-96	20-MAR-96		56			UG/KG	
Bromofluorobenzene (SURR)	5	1	20-MAR-96	20-MAR-96		46			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	20-MAR-96	20-MAR-96		54			UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027825-01/175S:250E
Lab Sample ID : 10577-004

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	20-MAR-96	20-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	20-MAR-96	20-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	20-MAR-96	20-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	20-MAR-96	20-MAR-96	7	12	BJ	20	UG/KG	
Trichlorofluoromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	20-MAR-96	20-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027825-01/175S:250E
Lab Sample ID : 10577-004

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	20-MAR-96	20-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	20-MAR-96	20-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027825-01/175S:250E
Lab Sample ID : 10577-004

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	20-MAR-96	20-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	20-MAR-96	20-MAR-96		56			UG/KG	
Bromofluorobenzene (SURR)	5	1	20-MAR-96	20-MAR-96		49			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	20-MAR-96	20-MAR-96		56			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
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Albuquerque, NM 87185-5130

Client Sample ID : 027826-01/175S:270E
Lab Sample ID : 10577-005

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	20-MAR-96	20-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	20-MAR-96	20-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	20-MAR-96	20-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	20-MAR-96	20-MAR-96	7	12	BJ	20	UG/KG	
Trichlorofluoromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	20-MAR-96	20-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027826-01/175S:270E
Lab Sample ID : 10577-005

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	20-MAR-96	20-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	20-MAR-96	20-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	

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Supplier Services for AJ-2480B
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Client Sample ID : 027826-01/175S:270E
Lab Sample ID : 10577-005

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	20-MAR-96	20-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	20-MAR-96	20-MAR-96		52			UG/KG	
Bromofluorobenzene (SURR)	5	1	20-MAR-96	20-MAR-96		47			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	20-MAR-96	20-MAR-96		50			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027827-01/200S:225E
Lab Sample ID : 10577-006

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	12	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027827-01/200S:225E
Lab Sample ID : 10577-006

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027827-01/200S:225E
Lab Sample ID : 10577-006

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		52			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		46			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		49			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027828-01/200S:225E
Lab Sample ID : 10577-007

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retentio Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	12	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027828-01/200S:225E
Lab Sample ID : 10577-007

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retentio Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5.	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027828-01/200S:225E
Lab Sample ID : 10577-007

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		50			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		41			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		48			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027829-01/200S:250E
Lab Sample ID : 10577-008

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	12	J	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027829-01/200S:250E
Lab Sample ID : 10577-008

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027829-01/200S:250E
Lab Sample ID : 10577-008

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 11-MAR-96
Receipt Date : 15-MAR-96
COC Number : 04892
SDG : 10577
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		52			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		47			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		53			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94528-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	19-MAR-96	19-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	19-MAR-96	19-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	19-MAR-96	19-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	19-MAR-96	19-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94528-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	19-MAR-96	19-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	19-MAR-96	19-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94528-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	19-MAR-96	19-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	19-MAR-96	19-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96		54			UG/KG	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96		42			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96		52			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94619-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	20-MAR-96	20-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	20-MAR-96	20-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	20-MAR-96	20-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	20-MAR-96	20-MAR-96	7	12	J	20	UG/KG	
Trichlorofluoromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	20-MAR-96	20-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94619-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	20-MAR-96	20-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	20-MAR-96	20-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94619-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	20-MAR-96	20-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	20-MAR-96	20-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	20-MAR-96	20-MAR-96		58			UG/KG	
Bromofluorobenzene (SURR)	5	1	20-MAR-96	20-MAR-96		48			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	20-MAR-96	20-MAR-96		54			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94528-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	50	58	UG/KG	116	234	1	
Trichloroethene	5	1	19-MAR-96	19-MAR-96	50	44	UG/KG	87	157	71	
Benzene	5	1	19-MAR-96	19-MAR-96	50	45	UG/KG	91	151	37	
Toluene	5	1	19-MAR-96	19-MAR-96	50	43	UG/KG	85	150	47	
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	50	40	UG/KG	80	160	37	
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96	50	54	UG/KG	107	117	81	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96	50	44	UG/KG	88	121	74	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96	50	50	UG/KG	101	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94528-2

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94528

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	19-MAR-96	19-MAR-96	50	56	UG/KG	112	22	0	3
Trichloroethene	5	1	19-MAR-96	19-MAR-96	50	42	UG/KG	85	24	0	3
Benzene	5	1	19-MAR-96	19-MAR-96	50	43	UG/KG	86	21	0	5
Toluene	5	1	19-MAR-96	19-MAR-96	50	40	UG/KG	80	21	0	6
Chlorobenzene	5	1	19-MAR-96	19-MAR-96	50	40	UG/KG	80	21	0	0
Toluene-d8 (SURR)	5	1	19-MAR-96	19-MAR-96	50	52	UG/KG	104	117	81	
Bromofluorobenzene (SURR)	5	1	19-MAR-96	19-MAR-96	50	42	UG/KG	84	121	74	
1,2-Dichloroethane-d4 (SURR)	5	1	19-MAR-96	19-MAR-96	50	47	UG/KG	94	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94619-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	20-MAR-96	20-MAR-96	50	60	UG/KG	121	234	1	
Trichloroethene	5	1	20-MAR-96	20-MAR-96	50	44	UG/KG	89	157	71	
Benzene	5	1	20-MAR-96	20-MAR-96	50	47	UG/KG	94	151	37	
Toluene	5	1	20-MAR-96	20-MAR-96	50	43	UG/KG	86	150	47	
Chlorobenzene	5	1	20-MAR-96	20-MAR-96	50	39	UG/KG	79	160	37	
Toluene-d8 (SURR)	5	1	20-MAR-96	20-MAR-96	50	55	UG/KG	110	117	81	
Bromofluorobenzene (SURR)	5	1	20-MAR-96	20-MAR-96	50	46	UG/KG	92	121	74	
1,2-Dichloroethane-d4 (SURR)	5	1	20-MAR-96	20-MAR-96	50	54	UG/KG	107	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94619-2

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94619

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	20-MAR-96	20-MAR-96	50	57	UG/KG	113	22	0	6
Trichloroethene	5	1	20-MAR-96	20-MAR-96	50	43	UG/KG	86	24	0	3
Benzene	5	1	20-MAR-96	20-MAR-96	50	44	UG/KG	88	21	0	6
Toluene	5	1	20-MAR-96	20-MAR-96	50	43	UG/KG	86	21	0	0
Chlorobenzene	5	1	20-MAR-96	20-MAR-96	50	40	UG/KG	79	21	0	0
Toluene-d8 (SURR)	5	1	20-MAR-96	20-MAR-96	50	56	UG/KG	111	117	81	
Bromofluorobenzene (SURR)	5	1	20-MAR-96	20-MAR-96	50	47	UG/KG	94	121	74	
1,2-Dichloroethane-d4 (SURR)	5	1	20-MAR-96	20-MAR-96	50	52	UG/KG	103	120	80	

SMO ANALYTICAL DATA ROUTING FORM

Project Name: MWL Risk Asses. Case Number: 368500

SNL Task Leader: Peace Org/Mail Stop: 7585/1148

SMO Project Coordinator: Puissant Sample Ship Date: 3/12/96

ARCOC	Lab	Lab ID
04896	7715	600186

COC 04896
MWL Risk
Assessment
Sampling
(Gamma Spec)

3/13/96

Requestor:

Reviewer:

Date Review Complete: Signature:

Date of Preliminary Notification: Person Notified:

Date of Final Transmittal: 3/21/96 Transmitted To: J. Peace

Transmitted By: Filed In Record Center:

Comments:

ENVIRONMENTAL OPERATIONS
RECEIVED
MAR 22 1996

INFORMATION ONLY

ANALYSIS REQUEST AND CHAIN OF CUSTODY

PAGE 1 OF 1

SF 2001-COC (6-95)

Internal Lab Batch No. 6)1896

AR/COC- 04896

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/3 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0225

Date Samples Shipped: 3/12/96
Carrier/Waybill No.: HC
Lab Contact: Fernando Dominguez
Lab Destination: 7713 C.C.F.
SMO Contact/Phone: Pam Russaint 848-0962
Send Report to SMO: Mark

Contract No.: N/A
Case No.: 3612.500
SMO Authorization:
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Parameter & Method Requested

Location: Tech Area 3
Building N/A Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	Gamma Spec	Lab Sample ID
027822-03	1005: 250E	6"	76	3/11/96 0823	S	P	500ml	None	G	SA	X	
027823-03	1255: 250E	6"	76	3/11/96 0832	S	P	500ml	None	G	SA	X	
027824-03	1505: 225E	6"	76	3/11/96 0841	S	P	500ml	None	G	SA	X	
027825-03	1755: 250E	6"	76	3/11/96 0850	S	P	500ml	None	G	SA	X	
027826-03	1755: 270E	6"	76	3/11/96 0906	S	P	500ml	None	G	SA	X	
027827-03	2005: 225E	6"	76	3/11/96 0918	S	P	500ml	None	G	SA	X	
027828-03	2005: 225E (Dup of 027827)	6"	76	3/11/96 0918	S	P	500ml	None	G	DU	X	
027829-03	2005: 250E	6"	76	3/11/96 0927	S	P	500ml	None	G	SA	X	

RMMA ☒ Yes ☐ No Ref. No.

Sample Disposal ☒ Return to Client ☐ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date

Sample Tracking
Date Entered (mm/dd/yy): 3/19/96
Entered by: Jane
QC Inits.

Special Instructions/QC Requirements: Extended Count for low MDAs

Abnormal Conditions on Receipt

Sample Team Members

Name	Signature	Init	Company/Organization/Phone
Jerry Peace	Jerry Peace	JP	SNL/7515/294-2472
Tim Guerra (P)	Tim Guerra	TG	GRAM/7585/284-2563
Mike Mosley	Mike Mosley	MM	GRAM/7585/284-2591

Well Release 04892

	Org.	Date	Time
1. Relinquished by	7585	3/12/96	1145
1. Received by	7513	3/12/96	1145
2. Relinquished by	7513	3/12/96	1255
2. Received by	7713	3/12/96	1255
3. Relinquished by	SNL 7713	3/13/96	1440
3. Received by	SNL 7513	3/13/96	1440
4. Relinquished by			
4. Received by			
5. Relinquished by			
5. Received by			
6. Relinquished by			
6. Received by			

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

Sandia National Laboratories
Radiation Protection Sample Diagnostics

Sample Analysis Request Form

To be completed by Customer

Shaded areas are for RPSD use only

Customer: Jerry Peace
Organization: 7585
Project Location: MWL
Phone: 284-2472
Date Results Needed: 3/13/96
Suspect Isotopes:
Other Information: COC 04896

Hazards/Special Instructions:
Extended Count for low MDAs (100 min)

Batch Log Number: 60186
Logged By: [illegible]

LIMS Login
Results Faxed
Sample Disposal

Analysis Type:
- [x] Gamma Spec
- [ ] H-3
- [ ] Alpha/Beta
- [ ] Alpha Spec
- [ ] Total U
- [ ] Other

Customer Sample ID	Sample Type	Date/Time Collected	Sample Volume	Requested Analysis	RPSD Sample ID	Rad Scan CPM	Sample Weight	Remarks
027822-03	Solid	3-11-96 0823	500 ml	Gamma Spec	01	<300	930	
027823-03		3-11-96 0832			02		916	
027824-03		3-11-96 0841			03		965	
027825-03		3-11-96 0858			04		920	
027826-03		3-11-96 0906			05		934	
027827-03		3-11-96 0918			06		942	
027828-03		3-11-96 0918			07		908	
027829-03		3-11-96 0927			08		962	
LCS		1-NOV-90			09/10			09-DeT02 10-DeT03

Relinquished by [signature]	Date 3/12/96	Time 1255	Received by [signature]	Date 3/12/96	Time 1255		
Relinquished by [signature]	Date 3/13/96	Time 1440	Received by [signature]	Date 3/12/96	Time 1440		
Relinquished by	Date	Time	Received by	Date	Time		
Relinquished by	Date	Time	Received by	Date	Time		

```
*****************************************************************
*                  Sandia National Laboratories                 *
*   Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                    3-12-96  3:53:35 PM                        *
*****************************************************************
*                                  *Dept 7714  Survey No._____*
* Reviewed by:  3/13/96            *Use Only   Surveyed by:_____*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027822-03
Lab Sample ID : 60018601

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 2SMAR
Sample Quantity : 930.000 gram
Sample Date/Time : 3-11-96 8:23:00 AM
Acquire Start Date : 3-12-96 2:08:59 PM
Detector Name : LAB02
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	2.47
TH-234	5.54E-01	2.24E-01	3.88E-01
RA-226	1.48	5.25E-01	7.36E-01
PB-214	4.63E-01	7.69E-02	4.74E-02
BI-214	4.38E-01	7.23E-02	3.78E-02
TH-232	5.59E-01	2.69E-01	1.55E-01
RA-228	5.32E-01	1.73E-01	1.02E-01
AC-228	5.51E-01	1.05E-01	6.39E-02
TH-228	5.18E-01	1.42E-01	3.17E-01
RA-224	5.49E-01	1.42E-01	5.32E-02
PB-212	5.36E-01	9.62E-02	2.94E-02
BI-212	6.50E-01	1.94E-01	2.29E-01
TL-208	4.29E-01	8.22E-02	7.38E-02
U-235	Not Detected	--------	1.73E-01
TH-231	Not Detected	--------	1.97
PA-231	Not Detected	--------	1.05
TH-227	Not Detected	--------	2.60E-01
RA-223	Not Detected	--------	1.40E-01
RN-219	Not Detected	--------	2.74E-01
PB-211	Not Detected	--------	6.42E-01
TL-207	Not Detected	--------	9.68
AM-241	Not Detected	--------	3.90E-01
PU-239	Not Detected	--------	3.51E+02
NP-237	Not Detected	--------	1.89E-01
PA-233	Not Detected	--------	4.26E-02
TH-229	Not Detected	--------	2.10E-01

[Summary Report] - Sample ID: 60018601

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.20E-02
AR-41	Not Detected	--------	2.99E+03
BA-133	Not Detected	--------	4.44E-02
BA-140	Not Detected	--------	7.77E-02
CD-109	Not Detected	--------	6.50E-01
CD-115	Not Detected	--------	6.82E-02
CE-139	Not Detected	--------	2.22E-02
CE-141	Not Detected	--------	4.04E-02
CE-144	Not Detected	--------	1.74E-01
CO-56	Not Detected	--------	2.48E-02
CO-57	Not Detected	--------	2.34E-02
CO-58	Not Detected	--------	2.27E-02
CO-60	Not Detected	--------	2.54E-02
CR-51	Not Detected	--------	1.66E-01
CS-134	Not Detected	--------	3.68E-02
CS-137	Not Detected	--------	2.52E-02
CU-64	Not Detected	--------	2.81E+01
EU-152	Not Detected	--------	6.06E-02
EU-154	Not Detected	--------	1.29E-01
EU-155	Not Detected	--------	1.03E-01
FE-59	Not Detected	--------	5.18E-02
GD-153	Not Detected	--------	8.31E-02
HG-203	Not Detected	--------	2.10E-02
I-131	Not Detected	--------	2.15E-02
IN-115m	Not Detected	--------	5.23
IR-192	Not Detected	--------	1.99E-02
K-40	1.12E+01	1.54	2.16E-01
LA-140	Not Detected	--------	4.21E-02
MN-52	Not Detected	--------	2.61E-02
MN-54	~~8.91E-03~~	~~1.39E-02~~	2.27E-02 Not detected 3/13/96
MN-56	Not Detected	--------	9.17E+01
MO-99	Not Detected	--------	2.45E-01
NA-22	Not Detected	--------	2.86E-02
NA-24	Not Detected	--------	1.03E-01
NB-95	Not Detected	--------	1.53E-01
ND-147	Not Detected	--------	1.43E-01
NI-57	Not Detected	--------	6.12E-02
BE-07	Not Detected	--------	1.82E-01
RU-103	Not Detected	--------	1.94E-02
RU-106	Not Detected	--------	1.97E-01
SB-122	Not Detected	--------	4.13E-02
SB-124	Not Detected	--------	2.31E-02
SB-125	Not Detected	--------	5.90E-02
SC-46	Not Detected	--------	3.55E-02
SR-85	Not Detected	--------	2.65E-02
TA-182	Not Detected	--------	1.06E-01
TA-183	Not Detected	--------	3.98E-01
TE-132	Not Detected	--------	2.69E-02
TL-201	Not Detected	--------	1.55E-01
XE-133	Not Detected	--------	1.34E-01
Y-88	Not Detected	--------	1.98E-02
ZN-65	Not Detected	--------	6.93E-02
ZR-95	Not Detected	--------	4.22E-02

```
*********************************************************************
*                    Sandia National Laboratories                   *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                      3-12-96  3:54:24 PM                          *
*********************************************************************
*                                 *Dept 7714  Survey No._____________*
* Reviewed by: 3/13/96            *Use Only   Surveyed by:___________*
*********************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027823-03
Lab Sample ID : 60018602

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 3SMAR
Sample Quantity : 916.000 gram
Sample Date/Time : 3-11-96 8:32:00 AM
Acquire Start Date : 3-12-96 2:11:20 PM
Detector Name : LAB03
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	9.41E-01
TH-234	8.28E-01	2.47E-01	2.82E-01
RA-226	1.21	4.25E-01	5.61E-01
PB-214	4.89E-01	1.07E-01	5.85E-02
BI-214	4.73E-01	8.53E-02	4.54E-02
TH-232	5.58E-01	2.76E-01	1.37E-01
RA-228	4.89E-01	1.45E-01	1.20E-01
AC-228	4.87E-01	1.07E-01	8.67E-02
TH-228	Not Detected	--------	5.27E-01
RA-224	5.66E-01	1.62E-01	6.97E-02
PB-212	5.81E-01	1.27E-01	2.68E-02
BI-212	5.78E-01	2.67E-01	3.79E-01
TL-208	5.73E-01	1.09E-01	7.70E-02
U-235	Not Detected	--------	1.37E-01
TH-231	Not Detected	--------	1.20
PA-231	Not Detected	--------	1.03
TH-227	Not Detected	--------	2.67E-01
RA-223	Not Detected	--------	8.89E-02
RN-219	Not Detected	--------	3.04E-01
PB-211	Not Detected	--------	6.92E-01
TL-207	Not Detected	--------	1.17E+01
AM-241	Not Detected	--------	1.11E-01
PU-239	Not Detected	--------	2.56E+02
NP-237	Not Detected	--------	1.75E-01
PA-233	Not Detected	--------	4.35E-02
TH-229	Not Detected	--------	1.34E-01

[Summary Report] - Sample ID: 60018602

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.71E-02
AR-41	Not Detected	--------	3.71E+03
BA-133	Not Detected	--------	4.80E-02
BA-140	Not Detected	--------	8.91E-02
CD-109	Not Detected	--------	4.66E-01
CD-115	Not Detected	--------	7.80E-02
CE-139	Not Detected	--------	1.95E-02
CE-141	Not Detected	--------	3.15E-02
CE-144	Not Detected	--------	1.33E-01
CO-56	Not Detected	--------	2.90E-02
CO-57	Not Detected	--------	1.67E-02
CO-58	Not Detected	--------	2.69E-02
CO-60	Not Detected	--------	3.17E-02
CR-51	Not Detected	--------	1.79E-01
CS-134	Not Detected	--------	4.08E-02
CS-137	Not Detected	--------	3.18E-02
CU-64	Not Detected	--------	3.50E+01
EU-152	Not Detected	--------	6.96E-02
EU-154	Not Detected	--------	1.38E-01
EU-155	Not Detected	--------	6.82E-02
FE-59	Not Detected	--------	6.31E-02
GD-153	Not Detected	--------	5.22E-02
HG-203	Not Detected	--------	2.16E-02
I-131	Not Detected	--------	2.46E-02
IN-115m	Not Detected	--------	5.89
IR-192	Not Detected	--------	2.15E-02
K-40	1.27E+01	1.77	2.82E-01
LA-140	Not Detected	--------	5.46E-02
MN-52	Not Detected	--------	3.12E-02
MN-54	Not Detected	--------	3.06E-02
MN-56	Not Detected	--------	1.04E+02
MO-99	Not Detected	--------	2.83E-01
NA-22	Not Detected	--------	3.35E-02
NA-24	Not Detected	--------	1.12E-01
NB-95	Not Detected	--------	1.58E-01
ND-147	Not Detected	--------	1.74E-01
NI-57	Not Detected	--------	7.00E-02
BE-07	Not Detected	--------	1.96E-01
RU-103	Not Detected	--------	2.18E-02
RU-106	Not Detected	--------	2.44E-01
SB-122	Not Detected	--------	4.39E-02
SB-124	Not Detected	--------	2.58E-02
SB-125	Not Detected	--------	6.36E-02
SC-46	Not Detected	--------	4.42E-02
SR-85	Not Detected	--------	3.13E-02
TA-182	Not Detected	--------	1.26E-01
TA-183	Not Detected	--------	1.12E-01
TE-132	Not Detected	--------	2.56E-02
TL-201	Not Detected	--------	7.64E-02
XE-133	Not Detected	--------	8.04E-02
Y-88	Not Detected	--------	2.41E-02
ZN-65	Not Detected	--------	8.32E-02
ZR-95	Not Detected	--------	4.66E-02

```
*****************************************************************
*                  Sandia National Laboratories                 *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                    3-12-96  6:05:55 PM                        *
*****************************************************************
*                                  *Dept 7714  Survey No._____*
* Reviewed by: 3/13/96             *Use Only   Surveyed by:_____*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027824-03
Lab Sample ID : 60018603

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 2SMAR
Sample Quantity : 965.000 gram
Sample Date/Time : 3-11-96 8:41:00 AM
Acquire Start Date : 3-12-96 4:17:07 PM
Detector Name : LAB02
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	2.45
TH-234	Not Detected	--------	5.16E-01
RA-226	9.83E-01	3.11E-01	4.09E-01
PB-214	4.82E-01	7.84E-02	4.46E-02
BI-214	4.46E-01	7.35E-02	3.94E-02
TH-232	4.75E-01	2.45E-01	1.91E-01
RA-228	5.97E-01	2.56E-01	1.14E-01
AC-228	5.33E-01	1.04E-01	7.32E-02
TH-228	Not Detected	--------	5.77E-01
RA-224	5.67E-01	1.45E-01	5.09E-02
PB-212	5.43E-01	9.23E-02	2.74E-02
BI-212	5.64E-01	2.30E-01	3.20E-01
TL-208	5.16E-01	9.11E-02	7.15E-02
U-235	Not Detected	--------	1.71E-01
TH-231	Not Detected	--------	1.98
PA-231	Not Detected	--------	1.06
TH-227	Not Detected	--------	2.60E-01
RA-223	Not Detected	--------	1.41E-01
RN-219	Not Detected	--------	2.93E-01
PB-211	Not Detected	--------	6.69E-01
TL-207	Not Detected	--------	9.67
AM-241	Not Detected	--------	3.85E-01
PU-239	Not Detected	--------	3.87E+02
NP-237	Not Detected	--------	1.97E-01
PA-233	Not Detected	--------	4.29E-02
TH-229	Not Detected	--------	2.12E-01

[Summary Report] - Sample ID: 60018603

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.48E-02
AR-41	Not Detected	--------	5.87E+03
BA-133	Not Detected	--------	4.43E-02
BA-140	Not Detected	--------	7.75E-02
CD-109	Not Detected	--------	6.76E-01
CD-115	Not Detected	--------	6.97E-02
CE-139	Not Detected	--------	2.18E-02
CE-141	Not Detected	--------	4.00E-02
CE-144	Not Detected	--------	1.75E-01
CO-56	Not Detected	--------	2.50E-02
CO-57	Not Detected	--------	2.36E-02
CO-58	Not Detected	--------	2.20E-02
CO-60	Not Detected	--------	2.59E-02
CR-51	Not Detected	--------	1.70E-01
CS-134	Not Detected	--------	3.58E-02
CS-137	3.84E-02	1.46E-02	1.99E-02
CU-64	Not Detected	--------	3.05E+01
EU-152	Not Detected	--------	6.45E-02
EU-154	Not Detected	--------	1.28E-01
EU-155	Not Detected	--------	1.04E-01
FE-59	Not Detected	--------	5.28E-02
GD-153	Not Detected	--------	8.45E-02
HG-203	Not Detected	--------	2.12E-02
I-131	Not Detected	--------	2.16E-02
IN-115m	Not Detected	--------	6.93
IR-192	Not Detected	--------	2.06E-02
K-40	1.23E+01	1.68	2.51E-01
LA-140	Not Detected	--------	4.37E-02
MN-52	Not Detected	--------	2.64E-02
MN-54	Not Detected	--------	2.54E-02
MN-56	Not Detected	--------	1.51E+02
MO-99	Not Detected	--------	2.40E-01
NA-22	Not Detected	--------	2.98E-02
NA-24	Not Detected	--------	1.10E-01
NB-95	Not Detected	--------	1.55E-01
ND-147	Not Detected	--------	1.45E-01
NI-57	Not Detected	--------	6.47E-02
BE-07	Not Detected	--------	1.73E-01
RU-103	Not Detected	--------	2.02E-02
RU-106	Not Detected	--------	2.07E-01
SB-122	Not Detected	--------	4.03E-02
SB-124	Not Detected	--------	2.22E-02
SB-125	Not Detected	--------	6.09E-02
SC-46	Not Detected	--------	3.72E-02
SR-85	Not Detected	--------	2.67E-02
TA-182	Not Detected	--------	1.09E-01
TA-183	Not Detected	--------	4.00E-01
TE-132	Not Detected	--------	2.64E-02
TL-201	Not Detected	--------	1.56E-01
XE-133	Not Detected	--------	1.37E-01
Y-88	Not Detected	--------	1.91E-02
ZN-65	Not Detected	--------	7.29E-02
ZR-95	Not Detected	--------	4.22E-02

```
*****************************************************************
*                  Sandia National Laboratories                 *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                     3-12-96  6:37:59 PM                       *
*****************************************************************
*                                  *Dept 7714  Survey No._____*
* Reviewed by: 3/13/96             *Use Only   Surveyed by:_____*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027825-03
Lab Sample ID : 60018604

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 3SMAR
Sample Quantity : 920.000 gram
Sample Date/Time : 3-11-96 8:58:00 AM
Acquire Start Date : 3-12-96 4:54:21 PM
Detector Name : LAB03
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	9.19E-01
TH-234	7.57E-01	2.20E-01	2.75E-01
RA-226	8.96E-01	3.54E-01	4.85E-01
PB-214	4.94E-01	1.05E-01	4.43E-02
BI-214	4.36E-01	8.27E-02	5.64E-02
TH-232	5.68E-01	2.78E-01	1.22E-01
RA-228	5.80E-01	2.58E-01	1.36E-01
AC-228	5.25E-01	1.09E-01	7.78E-02
TH-228	Not Detected	--------	5.31E-01
RA-224	5.59E-01	1.62E-01	7.59E-02
PB-212	5.14E-01	1.14E-01	2.91E-02
BI-212	6.67E-01	2.07E-01	2.35E-01
TL-208	5.16E-01	1.00E-01	7.22E-02
U-235	Not Detected	--------	1.37E-01
TH-231	Not Detected	--------	1.15
PA-231	Not Detected	--------	1.03
TH-227	Not Detected	--------	2.57E-01
RA-223	Not Detected	--------	8.75E-02
RN-219	Not Detected	--------	2.88E-01
PB-211	Not Detected	--------	6.57E-01
TL-207	Not Detected	--------	1.09E+01
AM-241	Not Detected	--------	1.13E-01
PU-239	Not Detected	--------	2.42E+02
NP-237	Not Detected	--------	1.72E-01
PA-233	Not Detected	--------	4.34E-02
TH-229	Not Detected	--------	1.35E-01

[Summary Report] - Sample ID: 60018604

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.75E-02
AR-41	Not Detected	--------	8.49E+03
BA-133	Not Detected	--------	4.75E-02
BA-140	Not Detected	--------	8.87E-02
CD-109	Not Detected	--------	4.39E-01
CD-115	Not Detected	--------	8.08E-02
CE-139	Not Detected	--------	1.92E-02
CE-141	Not Detected	--------	3.25E-02
CE-144	Not Detected	--------	1.27E-01
CO-56	Not Detected	--------	2.84E-02
CO-57	Not Detected	--------	1.71E-02
CO-58	Not Detected	--------	2.62E-02
CO-60	Not Detected	--------	3.06E-02
CR-51	Not Detected	--------	1.79E-01
CS-134	Not Detected	--------	3.98E-02
CS-137	3.83E-02	1.78E-02	2.52E-02
CU-64	Not Detected	--------	3.58E+01
EU-152	Not Detected	--------	6.81E-02
EU-154	Not Detected	--------	1.33E-01
EU-155	Not Detected	--------	6.76E-02
FE-59	Not Detected	--------	5.86E-02
GD-153	Not Detected	--------	5.00E-02
HG-203	Not Detected	--------	2.09E-02
I-131	Not Detected	--------	2.47E-02
IN-115m	Not Detected	--------	8.43
IR-192	Not Detected	--------	2.06E-02
K-40	1.28E+01	1.79	3.01E-01
LA-140	Not Detected	--------	5.79E-02
MN-52	Not Detected	--------	3.06E-02
MN-54	Not Detected	--------	2.78E-02
MN-56	Not Detected	--------	1.88E+02
MO-99	Not Detected	--------	2.80E-01
NA-22	Not Detected	--------	3.44E-02
NA-24	Not Detected	--------	1.27E-01
NB-95	Not Detected	--------	1.55E-01
ND-147	Not Detected	--------	1.63E-01
NI-57	Not Detected	--------	7.63E-02
BE-07	Not Detected	--------	1.98E-01
RU-103	Not Detected	--------	2.19E-02
RU-106	Not Detected	--------	2.44E-01
SB-122	Not Detected	--------	4.48E-02
SB-124	Not Detected	--------	2.50E-02
SB-125	Not Detected	--------	6.46E-02
SC-46	Not Detected	--------	4.52E-02
SR-85	Not Detected	--------	3.05E-02
TA-182	Not Detected	--------	1.34E-01
TA-183	Not Detected	--------	1.15E-01
TE-132	Not Detected	--------	2.48E-02
TL-201	Not Detected	--------	7.34E-02
XE-133	Not Detected	--------	8.00E-02
Y-88	Not Detected	--------	2.14E-02
ZN-65	Not Detected	--------	8.60E-02
ZR-95	Not Detected	--------	4.76E-02

```
*********************************************************************
*                    Sandia National Laboratories                   *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]*
*                     3-12-96  7:57:45 PM                           *
*********************************************************************
*                                 *Dept 7714  Survey No._____________*
* Reviewed by: 3/13/96            *Use Only   Surveyed by:___________*
*********************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027826-03
Lab Sample ID : 60018605

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 2SMAR
Sample Quantity : 934.000 gram
Sample Date/Time : 3-11-96 9:06:00 AM
Acquire Start Date : 3-12-96 6:09:19 PM
Detector Name : LAB02
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	2.46
TH-234	Not Detected	--------	5.72E-01
RA-226	1.04	3.11E-01	3.98E-01
PB-214	4.39E-01	7.96E-02	6.67E-02
BI-214	4.17E-01	7.25E-02	4.99E-02
TH-232	4.77E-01	2.26E-01	1.12E-01
RA-228	6.43E-01	3.03E-01	1.17E-01
AC-228	4.83E-01	1.07E-01	9.97E-02
TH-228	6.71E-01	2.02E-01	3.45E-01
RA-224	4.95E-01	1.31E-01	5.94E-02
PB-212	5.39E-01	9.22E-02	2.87E-02
BI-212	3.93E-01	1.81E-01	2.56E-01
TL-208	4.90E-01	8.42E-02	5.79E-02
U-235	~~9.51E-02~~	~~1.36E-01~~	1.75E-01 Not detected 3/13/96
TH-231	Not Detected	--------	1.99
PA-231	Not Detected	--------	1.07
TH-227	Not Detected	--------	2.64E-01
RA-223	Not Detected	--------	1.44E-01
RN-219	Not Detected	--------	2.80E-01
PB-211	Not Detected	--------	6.61E-01
TL-207	Not Detected	--------	1.05E+01
AM-241	Not Detected	--------	4.06E-01
PU-239	Not Detected	--------	2.48E+02
NP-237	Not Detected	--------	2.85E-01
PA-233	Not Detected	--------	4.43E-02
TH-229	Not Detected	--------	2.16E-01

[Summary Report] - Sample ID: 60018605

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.65E-02
AR-41	Not Detected	--------	1.07E+04
BA-133	Not Detected	--------	4.43E-02
BA-140	Not Detected	--------	7.82E-02
CD-109	Not Detected	--------	6.19E-01
CD-115	Not Detected	--------	7.29E-02
CE-139	Not Detected	--------	2.23E-02
CE-141	Not Detected	--------	4.01E-02
CE-144	Not Detected	--------	1.75E-01
CO-56	Not Detected	--------	2.52E-02
CO-57	Not Detected	--------	2.41E-02
CO-58	Not Detected	--------	2.28E-02
CO-60	Not Detected	--------	2.70E-02
CR-51	Not Detected	--------	1.71E-01
CS-134	Not Detected	--------	3.56E-02
CS-137	4.16E-02	1.72E-02	2.43E-02
CU-64	Not Detected	--------	3.51E+01
EU-152	Not Detected	--------	6.30E-02
EU-154	Not Detected	--------	1.31E-01
EU-155	Not Detected	--------	1.05E-01
FE-59	Not Detected	--------	5.19E-02
GD-153	Not Detected	--------	8.47E-02
HG-203	Not Detected	--------	2.14E-02
I-131	Not Detected	--------	2.26E-02
IN-115m	Not Detected	--------	8.90
IR-192	Not Detected	--------	2.06E-02
K-40	1.27E+01	1.74	2.20E-01
LA-140	Not Detected	--------	4.54E-02
MN-52	Not Detected	--------	2.63E-02
MN-54	Not Detected	--------	2.46E-02
MN-56	Not Detected	--------	2.25E+02
MO-99	Not Detected	--------	2.62E-01
NA-22	Not Detected	--------	3.03E-02
NA-24	Not Detected	--------	1.13E-01
NB-95	Not Detected	--------	1.60E-01
ND-147	Not Detected	--------	1.44E-01
NI-57	Not Detected	--------	6.39E-02
BE-07	Not Detected	--------	1.79E-01
RU-103	Not Detected	--------	2.00E-02
RU-106	Not Detected	--------	2.05E-01
SB-122	Not Detected	--------	4.14E-02
SB-124	Not Detected	--------	2.34E-02
SB-125	Not Detected	--------	6.10E-02
SC-46	Not Detected	--------	3.77E-02
SR-85	Not Detected	--------	2.76E-02
TA-182	Not Detected	--------	1.10E-01
TA-183	Not Detected	--------	4.27E-01
TE-132	Not Detected	--------	2.72E-02
TL-201	Not Detected	--------	1.65E-01
XE-133	Not Detected	--------	1.42E-01
Y-88	Not Detected	--------	1.99E-02
ZN-65	Not Detected	--------	7.32E-02
ZR-95	Not Detected	--------	4.32E-02

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*****************************************************************
*                  Sandia National Laboratories                 *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                     3-12-96  8:22:03 PM                       *
*****************************************************************
*                                 *Dept 7714  Survey No._____________*
* Reviewed by:_____ 3/13/96       *Use Only   Surveyed by:___________*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027827-03
Lab Sample ID : 60018606

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 3SMAR
Sample Quantity : 942.000 gram
Sample Date/Time : 3-11-96 9:18:00 AM
Acquire Start Date : 3-12-96 6:39:19 PM
Detector Name : LAB03
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

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Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	9.01E-01
TH-234	6.08E-01	1.99E-01	2.69E-01
RA-226	9.72E-01	3.54E-01	4.70E-01
PB-214	4.70E-01	1.01E-01	4.57E-02
BI-214	4.74E-01	8.66E-02	5.15E-02
TH-232	4.41E-01	2.23E-01	1.28E-01
RA-228	5.56E-01	2.60E-01	1.39E-01
AC-228	5.65E-01	1.20E-01	9.56E-02
TH-228	Not Detected	--------	5.02E-01
RA-224	5.59E-01	1.60E-01	6.78E-02
PB-212	5.45E-01	1.20E-01	2.88E-02
BI-212	4.90E-01	2.32E-01	3.28E-01
TL-208	5.48E-01	1.03E-01	6.73E-02
U-235	Not Detected	--------	1.33E-01
TH-231	Not Detected	--------	1.15
PA-231	Not Detected	--------	9.71E-01
TH-227	Not Detected	--------	2.61E-01
RA-223	Not Detected	--------	8.55E-02
RN-219	Not Detected	--------	2.86E-01
PB-211	Not Detected	--------	6.65E-01
TL-207	Not Detected	--------	1.11E+01
AM-241	Not Detected	--------	1.11E-01
PU-239	Not Detected	--------	2.39E+02
NP-237	Not Detected	--------	1.73E-01
PA-233	Not Detected	--------	4.13E-02
TH-229	Not Detected	--------	1.28E-01

[Summary Report] - Sample ID: 60018606

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.50E-02
AR-41	Not Detected	--------	1.50E+04
BA-133	Not Detected	--------	4.63E-02
BA-140	Not Detected	--------	8.57E-02
CD-109	Not Detected	--------	4.38E-01
CD-115	Not Detected	--------	7.66E-02
CE-139	Not Detected	--------	1.96E-02
CE-141	Not Detected	--------	3.10E-02
CE-144	Not Detected	--------	1.30E-01
CO-56	Not Detected	--------	2.72E-02
CO-57	Not Detected	--------	1.71E-02
CO-58	Not Detected	--------	2.67E-02
CO-60	Not Detected	--------	3.02E-02
CR-51	Not Detected	--------	1.67E-01
CS-134	Not Detected	--------	4.00E-02
CS-137	Not Detected	--------	2.96E-02
CU-64	Not Detected	--------	4.26E+01
EU-152	Not Detected	--------	6.66E-02
EU-154	Not Detected	--------	1.38E-01
EU-155	Not Detected	--------	6.69E-02
FE-59	Not Detected	--------	5.55E-02
GD-153	Not Detected	--------	5.00E-02
HG-203	Not Detected	--------	2.12E-02
I-131	Not Detected	--------	2.45E-02
IN-115m	Not Detected	--------	9.76
IR-192	Not Detected	--------	1.94E-02
K-40	1.18E+01	1.65	2.94E-01
LA-140	Not Detected	--------	5.29E-02
MN-52	Not Detected	--------	3.04E-02
MN-54	Not Detected	--------	2.93E-02
MN-56	Not Detected	--------	2.63E+02
MO-99	Not Detected	--------	2.92E-01
NA-22	Not Detected	--------	3.52E-02
NA-24	Not Detected	--------	1.29E-01
NB-95	Not Detected	--------	1.59E-01
ND-147	Not Detected	--------	1.57E-01
NI-57	Not Detected	--------	7.29E-02
BE-07	Not Detected	--------	1.90E-01
RU-103	Not Detected	--------	2.20E-02
RU-106	Not Detected	--------	2.31E-01
SB-122	Not Detected	--------	4.38E-02
SB-124	Not Detected	--------	2.59E-02
SB-125	Not Detected	--------	5.99E-02
SC-46	Not Detected	--------	4.38E-02
SR-85	Not Detected	--------	2.93E-02
TA-182	Not Detected	--------	1.30E-01
TA-183	Not Detected	--------	1.15E-01
TE-132	Not Detected	--------	2.52E-02
TL-201	Not Detected	--------	7.72E-02
XE-133	Not Detected	--------	8.14E-02
Y-88	Not Detected	--------	2.48E-02
ZN-65	Not Detected	--------	8.45E-02
ZR-95	Not Detected	--------	4.63E-02

```
*****************************************************************
*                  Sandia National Laboratories                 *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                   3-13-96  9:14:05 AM                         *
*****************************************************************
*                                *Dept 7714  Survey No._________*
* Reviewed by: 3/13/96           *Use Only   Surveyed by:_______*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027828-03
Lab Sample ID : 60018607

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 2SMAR
Sample Quantity : 908.000 gram
Sample Date/Time : 3-11-96 9:18:00 AM
Acquire Start Date : 3-13-96 7:30:11 AM
Detector Name : LAB02
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

*****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	2.57
TH-234	9.22E-01	3.58E-01	4.70E-01
RA-226	1.36	4.51E-01	6.14E-01
PB-214	5.28E-01	8.79E-02	5.70E-02
BI-214	5.47E-01	8.78E-02	4.12E-02
TH-232	5.68E-01	2.74E-01	1.61E-01
RA-228	5.28E-01	1.72E-01	1.12E-01
AC-228	5.66E-01	1.11E-01	7.62E-02
TH-228	4.67E-01	1.68E-01	3.59E-01
RA-224	5.59E-01	1.45E-01	5.91E-02
PB-212	5.51E-01	9.40E-02	3.01E-02
BI-212	6.26E-01	2.04E-01	2.55E-01
TL-208	4.50E-01	8.05E-02	6.12E-02
U-235	~~8.04E-02~~	~~1.41E-01~~	1.82E-01 Not detected 3/13/96
TH-231	Not Detected	--------	2.08
PA-231	Not Detected	--------	1.11
TH-227	Not Detected	--------	2.72E-01
RA-223	Not Detected	--------	1.53E-01
RN-219	Not Detected	--------	2.93E-01
PB-211	Not Detected	--------	6.68E-01
TL-207	Not Detected	--------	1.05E+01
AM-241	Not Detected	--------	4.17E-01
PU-239	Not Detected	--------	4.59E+02
NP-237	Not Detected	--------	2.26E-01
PA-233	Not Detected	--------	4.37E-02
TH-229	Not Detected	--------	2.14E-01

[Summary Report] - Sample ID: 60018607

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.36E-02
AR-41	Not Detected	--------	1.74E+06
BA-133	Not Detected	--------	4.77E-02
BA-140	Not Detected	--------	8.57E-02
CD-109	Not Detected	--------	7.79E-01
CD-115	Not Detected	--------	8.76E-02
CE-139	Not Detected	--------	2.30E-02
CE-141	Not Detected	--------	4.18E-02
CE-144	Not Detected	--------	1.80E-01
CO-56	Not Detected	--------	2.59E-02
CO-57	Not Detected	--------	2.46E-02
CO-58	Not Detected	--------	2.35E-02
CO-60	Not Detected	--------	2.76E-02
CR-51	Not Detected	--------	1.78E-01
CS-134	Not Detected	--------	4.02E-02
CS-137	Not Detected	--------	2.72E-02
CU-64	Not Detected	--------	7.11E+01
EU-152	Not Detected	--------	6.72E-02
EU-154	Not Detected	--------	1.35E-01
EU-155	Not Detected	--------	1.07E-01
FE-59	Not Detected	--------	5.48E-02
GD-153	Not Detected	--------	8.62E-02
HG-203	Not Detected	--------	2.19E-02
I-131	Not Detected	--------	2.49E-02
IN-115m	Not Detected	--------	6.88E+01
IR-192	Not Detected	--------	2.10E-02
K-40	1.25E+01	1.72	2.85E-01
LA-140	Not Detected	--------	6.06E-02
MN-52	Not Detected	--------	3.11E-02
MN-54	Not Detected	--------	2.58E-02
MN-56	Not Detected	--------	7.88E+03
MO-99	Not Detected	--------	3.07E-01
NA-22	Not Detected	--------	3.14E-02
NA-24	Not Detected	--------	2.33E-01
NB-95	Not Detected	--------	1.84E-01
ND-147	Not Detected	--------	1.62E-01
NI-57	Not Detected	--------	8.97E-02
BE-07	Not Detected	--------	1.87E-01
RU-103	Not Detected	--------	2.04E-02
RU-106	Not Detected	--------	2.06E-01
SB-122	Not Detected	--------	4.97E-02
SB-124	Not Detected	--------	2.42E-02
SB-125	Not Detected	--------	6.42E-02
SC-46	Not Detected	--------	4.03E-02
SR-85	Not Detected	--------	2.77E-02
TA-182	Not Detected	--------	1.18E-01
TA-183	Not Detected	--------	4.68E-01
TE-132	Not Detected	--------	3.22E-02
TL-201	Not Detected	--------	1.87E-01
XE-133	Not Detected	--------	1.76E-01
Y-88	Not Detected	--------	2.13E-02
ZN-65	Not Detected	--------	8.07E-02
ZR-95	Not Detected	--------	4.28E-02

```
*****************************************************************
*                  Sandia National Laboratories                 *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]  *
*                    3-13-96  1:43:02 PM                        *
*****************************************************************
*                                  *Dept 7714  Survey No._____*
* Reviewed by:_____3/13/96_____    *Use Only   Surveyed by:_____*
*****************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027829-03
Lab Sample ID : 60018608

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 3SMAR
Sample Quantity : 962.000 gram
Sample Date/Time : 3-11-96 9:27:00 AM
Acquire Start Date : 3-13-96 7:31:29 AM
Detector Name : LAB03
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

*****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	8.98E-01
TH-234	6.86E-01	1.42E-01	2.75E-01
RA-226	9.89E-01	1.72E-01	4.10E-01
PB-214	4.71E-01	1.03E-01	5.59E-02
BI-214	4.46E-01	8.06E-02	4.33E-02
TH-232	5.38E-01	2.65E-01	1.24E-01
RA-228	5.64E-01	2.59E-01	1.34E-01
AC-228	5.30E-01	1.17E-01	1.03E-01
TH-228	Not Detected	--------	5.17E-01
RA-224	5.77E-01	1.64E-01	6.68E-02
PB-212	5.09E-01	1.12E-01	2.84E-02
BI-212	7.39E-01	2.61E-01	3.37E-01
TL-208	5.26E-01	1.02E-01	7.62E-02
U-235	Not Detected	--------	1.32E-01
TH-231	Not Detected	--------	1.15
PA-231	Not Detected	--------	9.95E-01
TH-227	Not Detected	--------	2.57E-01
RA-223	Not Detected	--------	8.95E-02
RN-219	Not Detected	--------	2.92E-01
PB-211	Not Detected	--------	6.75E-01
TL-207	Not Detected	--------	1.11E+01
AM-241	Not Detected	--------	1.11E-01
PU-239	Not Detected	--------	2.49E+02
NP-237	Not Detected	--------	1.73E-01
PA-233	Not Detected	--------	4.22E-02
TH-229	Not Detected	--------	1.32E-01

[Summary Report] - Sample ID: 60018608

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	3.15E-02
AR-41	Not Detected	--------	1.78E+06
BA-133	Not Detected	--------	4.49E-02
BA-140	Not Detected	--------	9.17E-02
CD-109	Not Detected	--------	4.45E-01
CD-115	Not Detected	--------	8.86E-02
CE-139	Not Detected	--------	1.82E-02
CE-141	Not Detected	--------	3.12E-02
CE-144	Not Detected	--------	1.33E-01
CO-56	Not Detected	--------	2.61E-02
CO-57	Not Detected	--------	1.67E-02
CO-58	Not Detected	--------	2.58E-02
CO-60	Not Detected	--------	3.06E-02
CR-51	Not Detected	--------	1.79E-01
CS-134	Not Detected	--------	3.95E-02
CS-137	6.19E-02	1.66E-02	1.74E-02
CU-64	Not Detected	--------	8.25E+01
EU-152	Not Detected	--------	6.78E-02
EU-154	Not Detected	--------	1.37E-01
EU-155	Not Detected	--------	6.70E-02
FE-59	Not Detected	--------	6.16E-02
GD-153	Not Detected	--------	5.11E-02
HG-203	Not Detected	--------	2.15E-02
I-131	Not Detected	--------	2.63E-02
IN-115m	Not Detected	--------	6.83E+01
IR-192	Not Detected	--------	2.06E-02
K-40	1.31E+01	1.83	2.66E-01
LA-140	Not Detected	--------	6.45E-02
MN-52	Not Detected	--------	3.38E-02
MN-54	Not Detected	--------	2.72E-02
MN-56	Not Detected	--------	7.69E+03
MO-99	Not Detected	--------	3.26E-01
NA-22	Not Detected	--------	3.57E-02
NA-24	Not Detected	--------	2.34E-01
NB-95	Not Detected	--------	1.73E-01
ND-147	Not Detected	--------	1.67E-01
NI-57	Not Detected	--------	1.00E-01
BE-07	Not Detected	--------	1.98E-01
RU-103	Not Detected	--------	2.21E-02
RU-106	Not Detected	--------	2.29E-01
SB-122	Not Detected	--------	5.12E-02
SB-124	Not Detected	--------	2.57E-02
SB-125	Not Detected	--------	6.44E-02
SC-46	Not Detected	--------	4.55E-02
SR-85	Not Detected	--------	2.98E-02
TA-182	Not Detected	--------	1.32E-01
TA-183	Not Detected	--------	1.22E-01
TE-132	Not Detected	--------	2.75E-02
TL-201	Not Detected	--------	8.45E-02
XE-133	Not Detected	--------	9.59E-02
Y-88	Not Detected	--------	1.92E-02
ZN-65	Not Detected	--------	8.74E-02
ZR-95	Not Detected	--------	4.41E-02

```
*********************************************************************
*                    Sandia National Laboratories                   *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]*
*                      3-13-96 10:32:34 AM                          *
*********************************************************************
*                                *Dept 7714  Survey No._____________*
* Reviewed by: 3/13/96           *Use Only   Surveyed by:___________*
*********************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : LAB CONTROL SAMPLE ANALYSIS #CG134
Lab Sample ID : 60018609

Sample Description : MIXED_GAMMA_STANDARD
Sample Type : Liquid
Sample Geometry : WMAR
Sample Quantity : 1.000 Each
Sample Date/Time : 11-01-90 12:00:00 PM
Acquire Start Date : 3-13-96 10:20:26 AM
Detector Name : LAB02
Elapsed Live Time : 600 seconds
Elapsed Real Time : 606 seconds

Comments:

****

Nuclide	Activity (pCi/Each)	2S Error	MDA
U-238	Not Detected	--------	2.27E+04
TH-234	Not Detected	--------	4.83E+03
RA-226	Not Detected	--------	6.36E+03
PB-214	Not Detected	--------	6.44E+02
BI-214	Not Detected	--------	6.21E+02
TH-232	Not Detected	--------	2.06E+03
RA-228	Not Detected	--------	2.81E+03
AC-228	Not Detected	--------	1.62E+03
TH-228	Not Detected	--------	4.56E+04
RA-224	Not Detected	--------	1.60E+03
PB-212	Not Detected	--------	3.43E+03
BI-212	Not Detected	--------	3.21E+04
TL-208	Not Detected	--------	6.51E+03
U-235	Not Detected	--------	1.83E+03
TH-231	Not Detected	--------	1.80E+04
PA-231	Not Detected	--------	1.39E+04
TH-227	Not Detected	--------	2.32E+03
RA-223	Not Detected	--------	1.00E+26
RN-219	Not Detected	--------	5.21E+03
PB-211	Not Detected	--------	1.18E+04
TL-207	Not Detected	--------	2.14E+05
AM-241	9.09E+04	1.55E+04	6.19E+03
PU-239	Not Detected	--------	3.35E+06
NP-237	Not Detected	--------	2.65E+03
PA-233	Not Detected	--------	5.88E+02
TH-229	Not Detected	--------	2.15E+03

[Summary Report] - Sample ID: 60018609

Nuclide	Activity (pCi/Each)	2S Error	MDA
AG-110m	Not Detected	--------	3.51E+05
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	5.49E+02
BA-140	Not Detected	--------	1.00E+26
CD-109	2.51E+05	9.74E+04	1.35E+05
CD-115	Not Detected	--------	1.00E+26
CE-139	Not Detected	--------	4.46E+06
CE-141	Not Detected	--------	5.76E+20
CE-144	Not Detected	--------	2.19E+05
CO-56	Not Detected	--------	1.70E+10
CO-57	1.76E+04	1.69E+04	2.68E+04
CO-58	Not Detected	--------	7.26E+10
CO-60	7.52E+04	9.79E+03	4.96E+02
CR-51	Not Detected	--------	1.00E+26
CS-134	Not Detected	--------	1.79E+03
CS-137	6.76E+04	8.75E+03	4.51E+02
CU-64	Not Detected	--------	1.00E+26
EU-152	Not Detected	--------	1.17E+03
EU-154	Not Detected	--------	2.39E+03
EU-155	Not Detected	--------	2.30E+03
FE-59	Not Detected	--------	1.53E+16
GD-153	Not Detected	--------	2.26E+05
HG-203	Not Detected	--------	1.17E+15
I-131	Not Detected	--------	1.00E+26
IN-115m	Not Detected	--------	1.00E+26
IR-192	Not Detected	--------	2.64E+10
K-40	Not Detected	--------	1.69E+03
LA-140	Not Detected	--------	1.00E+26
MN-52	Not Detected	--------	1.00E+26
MN-54	Not Detected	--------	2.90E+04
MN-56	Not Detected	--------	1.00E+26
MO-99	Not Detected	--------	1.00E+26
NA-22	Not Detected	--------	9.22E+02
NA-24	Not Detected	--------	1.00E+26
NB-95	Not Detected	--------	1.00E+26
ND-147	Not Detected	--------	1.00E+26
NI-57	Not Detected	--------	1.00E+26
BE-07	Not Detected	--------	3.79E+14
RU-103	Not Detected	--------	3.39E+17
RU-106	Not Detected	--------	1.17E+05
SB-122	Not Detected	--------	1.00E+26
SB-124	Not Detected	--------	1.82E+12
SB-125	Not Detected	--------	4.12E+03
SC-46	Not Detected	--------	4.86E+09
SR-85	Not Detected	--------	4.23E+11
TA-182	Not Detected	--------	1.73E+08
TA-183	Not Detected	--------	1.00E+26
TE-132	Not Detected	--------	1.00E+26
TL-201	Not Detected	--------	1.00E+26
XE-133	Not Detected	--------	1.00E+26
Y-88	Not Detected	--------	5.90E+07
ZN-65	Not Detected	--------	2.43E+05
ZR-95	Not Detected	--------	9.58E+11

```
*********************************************************************
*                    Sandia National Laboratories                   *
*              Radiation Protection Sample Diagnostics Program      *
*                     Quality Assurance Report                      *
*********************************************************************
```

Report Date	:	3-13-96 10:35:15 AM
QA File	:	C:\GENIEPC\CAMFILES\LCS2.QAF
Analyst	:	GLS
Sample ID	:	60018609
Sample Quantity	:	1.00 Each
Sample Date	:	11-01-90 12:00:00 PM
Measurement Date	:	3-13-96 10:20:26 AM
Elapsed Live Time	:	600 seconds
Elapsed Real Time	:	606 seconds

Parameter	Mean	1S Error	New Value	< LU	SD	UD	BS >
AM-241 Activity	9.302E-02	4.036E-03	9.090E-02	<	:	:	: >
CS-137 Activity	6.862E-02	2.077E-03	6.761E-02	<	:	:	: >
CO-60 Activity	7.515E-02	1.585E-03	7.412E-02	<	:	:	: >

Flags Key:
LU = Boundary Test (Ab = Above , Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)

Reviewed by: 3/13/96

INFORMATION COPY

RADIOLOGICAL SURVEY FORM

Survey Number: 3-96-0320

Location	Requester/Dept.	Date	Time	Duration
ER Site 76	J. Pearce / 7585	3/11/96	1010	N/A

Purpose	Request #	RWP #
Release Samples	N/A	N/A

Instrument and Probe Type and Serial Number	Surveyor(s) Printed Name	Surveyor(s) Signature
ASP-1 W/HP-260 #2824	H. Oldewage	[signature]

#	Sample # Item Description	BETA-GAMMA CONTAMINATION Counting Data Attached ☒Yes ☐No % Eff. 20 /Isotope Cs137 cpm	Bkg. cpm	dpm/100 cm² (1)	(2) T/R/F	ALPHA CONTAMINATION Counting Data Attached ☐Yes ☐No % Eff. ____ /Isotope ____ cpm	Bkg. cpm	dpm/100 cm² (1)	(2) T/R/F	RADIATION SURVEY Bkg. N/A mrem/hr (3)	Distance
1	27822	80	80	ND	T						
2	27823	80	80	ND	T						
3	27824	80	80	ND	T						
4	27825	80	80	ND	T						
5	27826	80	80	ND	T						
6	27827	80	80	ND	T						
7	~~27827 (Dup)~~ 27828	80	80	ND	T						
8	27829	80	80	ND	T						

N/A

Note (1): If area other than 100 cm², record as dpm/probe, or dpm/LAW. Note (2): Total/Removable/Fixed. Note (3): Indicate type, if other than gamma (i.e. n or β).

Remarks:

Reviewed by:

X **********
* Sandia Radioactive Sample Diagnostics Program 3-11-1996 *
****

LSC Analysis Program - version 5.1

Batch Number : 65028501
Count Protocol : 17
Client : OLDEWAGE (7714) ER SITE 76 RELEASE 3/11 65028501
Laboratory ID : 6600-1
Count Date : 11-Mar-96
Protocol Name : H3AB -- SWIPE
Region of Interest : 0-12
Count Time : 5.0 minutes
Background cpm : 11.00 +- 6.71
Background tSIE : 427.7
Background Eff : 0.353
Systematic Error : 12.90%
Sample Aliquot : 1.000 f

H-3 MDA = 2.11E+01 dpm/f
H-3 CL = 9.80E+00 dpm/f

H-3 Efficiency = 0.9477 - exp(-0.00147*tSIE^0.9686)

Flag Description:

>CL : Result > 2-sigma Error and Result > Critical Level.
<CL : Result < 2-sigma Error and Result < Critical Level.
@CL : Result < 2-sigma Error and Result > Critical Level.
@CL : Result > 2-sigma Error and Result < Critical Level.

Analyzed by: _____ Reviewed by: 3/11/96

S#	RPSD ID	Client ID	cpm	Error	tSIE	Eff	H-3 Activity dpm/f	Error	Flag
2	001	001	1.38E+01	9.42E+00	420	0.347	8.07E+00	4.75E+01	<CL
3	002	002	1.46E+01	1.05E+01	412	0.341	1.05E+01	5.17E+01	@CL
4	003	003	1.18E+01	1.03E+01	416	0.345	2.32E+00	4.98E+01	<CL
5	004	004	1.18E+01	9.66E+00	419	0.346	2.31E+00	4.76E+01	<CL
6	005	005	1.56E+01	9.55E+00	415	0.343	1.34E+01	4.91E+01	@CL
7	006	006	1.80E+01	8.27E+00	409	0.340	2.06E+01	4.68E+01	@CL
8	007	007	8.40E+00	9.91E+00	417	0.345	-7.53E+00	4.91E+01	<CL
9	008	008	1.00E+01	1.06E+01	423	0.349	-2.86E+00	4.98E+01	<CL

```
*********************************************************************
* Sandia Radioactive Sample Diagnostics Program            3-11-1996 *
*********************************************************************
LSC Analysis Program - version 5.1

Batch Number        : 65028501
Count Protocol      : 17
Client              : OLDEWAGE (7714) ER SITE 76 RELEASE 3/11  65028501
Laboratory ID       : 6600-1
Count Date          : 11-Mar-96
Protocol Name       : H3AB -- SWIPE
Region of Interest  : 20-600
Count Time          : 5.0 minutes
Background cpm      : 20.00 +- 4.00
Background tSIE     : 427.7
Background Eff      : 0.993
Systematic Error    :  8.90%
Sample Aliquot      : 1.000 f

Alpha MDA =  9.93E+00 dpm/f
Alpha CL  =  4.69E+00 dpm/f

Alpha Efficiency = 0.9937 - exp(-0.06849*tSIE^0.7874)

Flag Description:

>CL : Result > 2-sigma Error  and  Result > Critical Level.
<CL : Result < 2-sigma Error  and  Result < Critical Level.
@CL : Result < 2-sigma Error  and  Result > Critical Level.
@CL : Result > 2-sigma Error  and  Result < Critical Level.
```

S#	RPSD ID	Client ID	cpm	Error	tSIE	Eff	Alpha Activity dpm/f	Error	Flag
2	001	001	1.94E+01	3.94E+00	420	0.993	-6.04E-01	8.05E+00	<CL
3	002	002	1.52E+01	3.49E+00	412	0.993	-4.83E+00	7.97E+00	<CL
4	003	003	2.04E+01	4.04E+00	416	0.993	4.03E-01	8.13E+00	<CL
5	004	004	1.66E+01	3.64E+00	419	0.993	-3.42E+00	8.00E+00	<CL
6	005	005	1.86E+01	3.86E+00	415	0.993	-1.41E+00	8.04E+00	<CL
7	006	006	1.58E+01	3.56E+00	409	0.993	-4.23E+00	7.98E+00	<CL
8	007	007	1.38E+01	3.32E+00	417	0.993	-6.24E+00	7.93E+00	<CL
9	008	008	1.96E+01	3.96E+00	423	0.993	-4.03E-01	8.05E+00	<CL

pg 3 of 4

```
*********************************************************************
* Sandia Radioactive Sample Diagnostics Program            3-11-1996 *
*********************************************************************
LSC Analysis Program - version 5.1

Batch Number        : 65028501
Count Protocol      : 17
Client              : OLDEWAGE (7714) ER SITE 76 RELEASE 3/11  65028501
Laboratory ID       : 6600-1
Count Date          : 11-Mar-96
Protocol Name       : H3AB -- SWIPE
Region of Interest  : 12-2000
Count Time          : 5.0 minutes
Background cpm      : 22.60 +- 4.25
Background tSIE     : 427.7
Background Eff      : 0.897
Systematic Error    :  6.30%
Sample Aliquot      : 1.000 f

Beta MDA =  1.17E+01 dpm/f
Beta CL  =  5.52E+00 dpm/f

Beta Efficiency = 0.8970 - exp(-0.03002*tSIE^0.9335)

Flag Description:

>CL : Result > 2-sigma Error  and  Result > Critical Level.
<CL : Result < 2-sigma Error  and  Result < Critical Level.
@CL : Result < 2-sigma Error  and  Result > Critical Level.
@CL : Result > 2-sigma Error  and  Result < Critical Level.
```

S#	RPSD ID	Client ID	cpm	Error	tSIE	Eff	Beta Activity dpm/f	Error	Flag
2	001	001	2.66E+01	4.61E+00	420	0.897	4.46E+00	1.02E+01	<CL
3	002	002	2.50E+01	4.47E+00	412	0.897	2.68E+00	9.90E+00	<CL
4	003	003	2.54E+01	4.51E+00	416	0.897	3.12E+00	9.96E+00	<CL
5	004	004	2.60E+01	4.56E+00	419	0.897	3.79E+00	1.01E+01	<CL
6	005	005	2.86E+01	4.78E+00	415	0.897	6.69E+00	1.05E+01	@CL
7	006	006	2.90E+01	4.82E+00	409	0.897	7.14E+00	1.06E+01	@CL
8	007	007	2.06E+01	4.06E+00	417	0.897	-2.23E+00	9.41E+00	<CL
9	008	008	2.76E+01	4.70E+00	423	0.897	5.58E+00	1.03E+01	@CL

pg 4 of 4

SMO ANALYTICAL DATA ROUTING FORM

Project Name: MWL RISK ASSESSMENT Case Number: 3618.500

SNL Task Leader: J. PEACE Org/Mail Stop: 7585/1148

SMO Project Coordinator: P. PUISSANT Sample Ship Date: 3/21/96

ARCOC	Lab	Lab ID
04895	QUANTSL	10632

Date Results Received:

Preliminary: _____ Final: 4/22/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: 4/22/96 Reviewer: P. PUISSANT

Date Review Complete: 4/23/96 Signature: [illegible]

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 4/24/96 Transmitted To: Lyon

Transmitted By: [illegible] Filed In Record Center: [illegible]

Comments: _____

SANDIA NATIONAL LABORATORIES
ENVIRONMENTAL RESTORATION
RECORDS CENTER
Received
APR 24 1996

INFORMATION ONLY

TOP 94-03
Rev. 1
Attachment A
November 1995

Rev'd 11-9-95

DOCUMENTATION COMPLETENESS CHECKLIST
(DATA VERIFICATION/VALIDATION LEVEL 1 - DV1)

Project Leader: J Peace Project Name: MWL Risk Assessment Case No. 3618500

AR/COC No. 04895 Analytical Lab: Quanterra, St Louis SDG No. 10632

In the tables below, mark any information that is missing or incorrect and give an explanation.

1.0 Analysis Request and Chain of Custody Record

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
1.1	All items on COC complete - data entry clerk initialed and dated	X		* Record Center code is wrong,		
1.2	Container type(s) correct for analyses requested	X		should be EB/1789 0716/DAT.		
1.3	Sample volume adequate for # and types of analyses requested	X				
1.4	Preservative correct for analyses requested	X				
1.5	Custody records continuous and complete	X				
1.6	Lab sample number(s) provided	X				
1.7	Condition upon receipt information provided	X				
1.8	Tritium Screen data provided (Rad labs)	X		Released by COC 04897		

2.0 Analytical Laboratory Report

Line No.	Item	Complete? Yes	Complete? No	If no, explain	Resolved? Yes	Resolved? No
2.1	Data reviewed, signature	X				
2.2	Date samples received	X				
2.3	Method reference number(s) complete and correct	X				
2.4	Quality control data provided (MB, LCS, LCD, Detection Limit)	X				
2.5	Matrix spike/matrix spike duplicate data provided(if requested)	X				
2.6	Narrative provided	X				
2.7	TAT met	X				
2.8	Hold times met		X	Aqueous samples beyond Hold Time,		
2.9	All requested result data provided	X		OK per Mark McLaughlin (see memo)		

Based on the review, this data package is complete ☒ Yes ☐ No

If no, provide : correction request tracking # _____ and date correction request was submitted: _____

Reviewed by: [signature] Date: 4/23/[illegible] Closed by: _____ Date: _____

Internal Lab Batch No. _____

SF 2001-COC (6-95)

ANALYSIS REQUEST AND CHAIN OF CUSTODY

AR/COC- 04895

Dept. No./Mail Stop: 7525/1148
Project/Task Manager: Jerry Pease
Project Name: MWL Risk Assessment
Record Center Code: WM13 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0225

Date Samples Shipped: 3.21.96
Carrier/Waybill No.: A66084
Lab Contact: Dianne Meuller
Lab Destination: Quanterra St. Louis
SMO Contact/Phone: Pam Russell 848-0402
Send Report to SMO Yes, Pam Russell

Contract No.: AT-2420B
Case No.: 3018.500
SMO Authorization: [signature]
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Parameter & Method Requested

Location — Tech Area 3 — Building N/A — Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative (All @ 4°C)	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270), TAL Metals								Lab Sample ID
027830-01	700 : 120E	6"	76	3/12/96 0827	S	G	4oz	None	G	SA	X									
027830-02	"	6"	76	3/12/96 0827	S	G	8oz	None	G	SA		X								
027831-01	1200 : 120E	6"	76	3/12/96 0833	S	G	4oz	None	G	SA	X									
027831-02	"	6"	76	3/12/96 0833	S	G	8oz	None	G	SA		X								
027832-01	1700 : 120E	6"	76	3/12/96 0840	S	G	4oz	None	G	SA	X									
027832-02	"	6"	76	3/12/96 0840	S	G	8oz	None	G	SA		X								
027833-01	500 : 125E	6"	76	3/12/96 0849	S	G	4oz	None	G	SA	X									
027833-02	"	6"	76	3/12/96 0849	S	G	8oz	None	G	SA		X								
027834-01	1000 : 125E	6"	76	3/12/96 0856	S	G	4oz	None	G	SA	X									
027834-02	"	6"	76	3/12/96 0856	S	G	8oz	None	G	SA		X								

RMMA ☒ Yes ☐ No Ref. No. _____

Sample Disposal ☐ Return to Client ☒ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date _____

Sample Tracking
Date Entered (mm/dd/yy) 3/29/96
Entered by: [signature]
QC Inits. _____

Special Instructions/QC Requirements
Please list as separate report
Released by COC 04897

Abnormal Conditions on Receipt

Sample Team Members

Name	Signature	Init	Company/Organization/Phone
Jerry Pease	[signature]	JP	SNL / 7555/294-[illegible]
Tim Goering	[signature]	TG	GRAM / 7555/294-1763
Mike McVey	[signature]	MM	GRAM/7555/294-3591

1. Relinquished by [signature]	Org. 7555	Date 3/13/96	Time 1400	4. Relinquished by	Org.	Date	Time
1. Received by [signature]	Org. [illegible]	Date 3/13/96	Time 1400	4. Received by	Org.	Date	Time
2. Relinquished by [signature]	Org. [illegible]	Date 3/14/96	Time 1400	5. Relinquished by	Org.	Date	Time
2. Received by	Org.	Date	Time	5. Received by	Org.	Date	Time
3. Relinquished by	Org.	Date	Time	6. Relinquished by	Org.	Date	Time
3. Received by	Org.	Date	Time	6. Received by	Org.	Date	Time

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

SF 2001-COD (9 91)

AR/COC- 048875

Project Name: MWL Risk Assessment / Project/Task Manager: Terry Penne Case No.: 3618.500

Location Tech Area 3

Building N/A Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Reference LOV (available at SMO): Sample Matrix	Container: Type	Container: Volume	All @ 4°C Preservative	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270), TAL Metals	SVOC (8270)	TAL Metals plus Hg							Lab Sample ID
027835-01	150s: 125E	6"	76	3/12/96 0905	S	G	4oz	None	G	SA	X										
027835-02	"	6"	76	3/12/96 0905	S	G	8oz	None	G	SA		X									
027836-01	200s: 125E	6"	76	3/12/96 0913	S	G	4oz	None	G	SA	X										
027836-02	"	6"	76	3/12/96 0913	S	G	8oz	None	G	SA		X									
027837-01	50s: 50E	6"	76	3/12/96 0922	S	G	4oz	None	G	SA	X										
027837-02	"	6"	76	3/12/96 0922	S	G	8oz	None	G	SA		X									
027838-01	100s: 50E	6"	76	3/12/96 0931	S	G	4oz	None	G	SA	X										
027838-02	"	6"	76	3/12/96 0931	S	G	8oz	None	G	SA		X									
027839-01	150s: 50E	6"	76	3/12/96 0944	S	G	4oz	None	G	SA	X										
027839-02	"	6"	76	3/12/96 0944	S	G	8oz	None	G	SA		X									
027840-01	(Dup. of 027839-01) 150s: 50E	6"	76	3/12/96 0944	S	G	4oz	None	G	DU	X										
027840-02	(Dup. of 027839-02) "	6"	76	3/12/96 0944	S	G	8oz	None	G	DU		X									
027841-01	200s: 50E	6"	76	3/12/96 0955	S	G	4oz	None	G	SA	X										
027841-02	"	6"	76	3/12/96 0955	S	G	8oz	None	G	SA		X									
027853-01	Equipment Rinse	N/A	76	3/12/96 1000	DIW	AG	2x1L	None	G	EB			X								
027853-02	"	N/A	76	3/12/96 1000	DIW	G	1L	HNO3	G	EB				X							
027853-03	"	N/A	76	3/12/96 1000	DIW	G	3x40ml	HCL	G	EB	X										
027855-01	Trip Blank	N/A	76	3/12/96 1000	DIW	G	40ml	HCL	G	TB	X										

Abnormal Conditions on Receipt

Recipient Initials _____

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- Suspense Copy PINK- Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

SF 2001-COD (5 ..)

PAGE 1 OF 3

AR/COC- 09.975

Project Name: MWL Risk Assessment Project/Task Manager: Terry Pence Case No.: 3618.500

Location Tech Area 3

Building N/A Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Reference LOV (available at SMO): Sample Matrix	Container: Type	Container: Volume	Preservative (All @ 4°C)	Sample Collection Method	Sample Type	VOC (8260)									Lab Sample ID
027854-01	Trip Blank	N/A	TA	[illegible]	S	G	25ml	None	G	TB	X									

Abnormal Conditions on Receipt

Recipient Initials

WHITE - To Accompany Samples, Lab Copy BLUE- To Accompany Samples, Return to SMO YELLOW- ( ) Suspense Copy PINK- Field Copy ( )

Sandia National Laboratories

Albuquerque, New Mexico 87185-1331

date: March 21, 1996

to: To Whom It May Concern

DLM

from: Daniel "Mack' McLaughlin, MS-1331 (7513)

subject: COC 04897 and 04895

The samples on COC 04985 may be sent to Quanterra, St. Louis without violating their Material license with NRC, License # 24-24817-01. These samples were represented by samples on COC 04897 and screened at the CCF on 3/18,19,20/1996.

Should you have questions, please call me at 844-0941.

DLM:dlm

SHIPPER

SF 6961-AE(1-93)

Sandia National Laboratories

1 [XXX] New Mexico
[ ] California
[ ] Other

SHIP TO: *Typed or neatly printed*

Quanterra Saint Louis
13715 Rider Trail North
Earth City, MO 63045

Attention: Dianne Meuller
(314) 298-8566 or 1 800 333-3305
Contract # AJ-2480B

ARCOC 05009 / 04895

Date Exit Time & Date 3 | Highest Material Security Class. 4 U | Page 1 Of 1

Date to be Returned 5 [XXX] No Return | Document No. A 60084 | Shipping Code 6 | Shipment Register No. 7 C-109832

Due at Destination 8 3/22/96 Date | [XXX] Firm (Premium transportation authorized) [ ] Flex (Most economical transportation)

Originator of Form 9 D. L. McLaughlin | Org. 7513 | Phone 844-0491 | Date Prepared 10 3/21/96

FROM: 11 Site TA 1 | Bldg. 870B | Room Lab | Org. 7513

Requester's E No. 12 03319 | Requester's Name (Write "Same" if also originator) Same | Case No. 13 6991.124

Material Billing 14: [ ] Charge [XXX] No Charge
Freight Billing 15: [XXX] Prepaid [ ] Collect *If collect, carrier & acct no. (if known)*

Reason for Shipment 16: Analysis of Environmental Samples

Authority for Shipment 17: N/A

Item No. 18	Sec. Class. 19	Quantity 20	Unit 21	Haz. Mat'l. 22	Property Tag No. And/Or MID No. 23	Description 24	Unit Value 25	$ Total 26
1	U	1	2a	N	N/A	Environmental Soil/water Samples	N/A	N/A

EXPEDITE

Important: Please Fax Copy of Completed Shipper to SMO at 844-4976

3/21/96

Grand Total 27 $

DOE Transportation Safeguards Div. Courier Required? 28 [ ] YES [XXX] NO

Service Clerk 29 | Property Mgmt. Rep. 30 N/A

Date Shipped or Hand-carried 31 | Routing 32 FAX 3-21-96 | B/L No 33 396 3220 755 | No. of Boxes 34 1 | Weight 35 80 | Total Cubic Feet/Dimensions 36 3a x 16 x 16 4.4

Authorizing Signature 37 D. L. McLaughlin 7513 / 1331
Signature of manager above typed or printed name and Org.
I certify that the material being offered for shipment is nonhazardous unless noted as hazardous in block 22 and required information is being provided.

Special Approval 38 Name Org.

Special Approval Name Org.

39 Bearer's Signature

40 Receipt Acknowledged Recipient's Signature/Company Date

Contract or PEL/MEL Rep. 41 [ ] External Loan Name Org.

The listed material and accompanying information has been examined and the hazardous material designations and all preparations for shipment are certified correct. 42 Hazardous Material Consultant

43 Packed by

Ply 1:
Corporate File - Retained by the Traffic Organization after shipper is complete and items are ready for shipment.

RECEIVED
MAR 27 1996
SNL/SMO

Memorandum

TO: Kathy Becker

FROM: Diane Mueller

DATE: 3/26/96

SUBJECT: AR/COC 04895

Attached are the following:

Signed and dated copy of AR/COC 04895

Quanterra's in-house COC (Login Number 10632) which can be used as a cross reference for client and lab sample I.D's

Signed and dated Quanterra Condition Upon Receipt

Preliminary Invoice

On March 22, 1996, one (1) cooler was received at Quanterra, St. Louis. The temperature of this cooler was 2° C.

Sample 027855-01/EQUIPMENT BLANK was received 3 days out of hold time. Per client request the sample will be processed "as is"

TAT requested is Normal turn = 30 days

605.09

Conversation Record

Quanterra Environmental Services

UA-4137

Time	Date	Project Number	Routing Name/Symbol	Routing Initial
0932	3-20-96	605.09		

Type of Contact: ☐ Visit ☐ Conference ☐ Telephone ☐ Incoming ☐ Outgoing

Location of Visit or Conference:

Name of Person(s) Contacted	Organization (Office, Dept. etc.)	Telephone Number
Mac McLaughlin	Sandia	

Subject

Summary

Samples that are into the 9th or 10th day of hold time (due to problems with Rad Screens) will come finally tomorrow.

The waters will be out of hold time. He would like us to process out of hold time.

The soils will be 10 days old Friday, when we receive them. He wanted to know if we would be able to meet hold time. I checked with Chris Weathington & he said it should not be a problem.

Action Required

Name of Person Documenting Conversation	Signature	Date
Diane W. Mueller	Diane W. Mueller	

Action Taken

Signature	Title	Date

1 Comp

Internal Lab Batch No. _____

ANALYSIS REQUEST AND CHAIN OF CUSTODY

AR/COC- 04895

SF 2001-COC (6-95)

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: NM13 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0225

Date Samples Shipped: 3-21-96
Carrier/Waybill No.: A 660084
Lab Contact: Dianne Meuller
Lab Destination: Quanterra St. Louis
SMO Contact/Phone: Pam Russeint 848-5402
Send Report to SMO Yes, Pam Russeint

Contract No.: AT-2480B
Case No.: 3618.500
SMO Authorization: [illegible]
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Location: Tech Area 3; Building N/A; Room N/A

Reference LOV (available at SMO): All @ 4°C

	Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270), TAL Metals									Lab Sample ID
1	027830-01	705: 180E	6"	76	3/12/96 0827	S	G	4oz	None	G	SA	X										
12	027830-02	"	6"	76	3/12/96 0827	S	G	8oz	None	G	SA		X									
2	027831-01	1205: 180E	6"	76	3/12/96 0833	S	G	4oz	None	G	SA	X										
13	027831-02	"	6"	76	3/12/96 0833	S	G	8oz	None	G	SA		X									
3	027832-01	1705: 180E	6"	76	3/12/96 0846	S	G	4oz	None	G	SA	X										
14	027832-02	"	6"	76	3/12/96 0846	S	G	8oz	None	G	SA		X									
4	027833-01	505: 125E	6"	76	3/12/96 0849	S	G	4oz	None	G	SA	X										
15	027833-02	"	6"	76	3/12/96 0849	S	G	8oz	None	G	SA		X									
5	027834-01	1005: 125E	6"	76	3/12/96 0856	S	G	4oz	None	G	SA	X										
16	027834-02	"	6"	76	3/12/96 0856	S	G	8oz	None	G	SA		X									

100%

RMMA ☒ Yes ☐ No Ref. No. _____

Sample Disposal ☐ Return to Client ☒ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date _____

Sample Tracking: Date Entered (mm/dd/yy) _____ Entered by: _____ QC Inits. _____

Special Instructions/QC Requirements: Please list as separate report. Released by COC 04897

Abnormal Conditions on Receipt

Sample Team Members	Name	Signature	Init	Company/Organization/Phone
	Jerry Peace	[illegible]	JP	SNL / 7585/284-2472
	Tim Goering	[illegible]	TG	GRAM / 7551/284-1563
	Mike McVey	[illegible]	MM	GRAM/7585/284-2591

	Relinquished by	Received by
1. Relinquished by / Received by	Org. 7585 Date 3/13/96 Time 1400	Org. 7513 Date 3/13/96 Time 1400
2. Relinquished by / Received by	Org. 7513 Date 3/21/96 Time 1400	Org. Quanterra Date 3-22-96 Time 09:00
3. Relinquished by / Received by	Org. Date Time	Org. Date Time
4. Relinquished by / Received by	Org. Date Time	Org. Date Time
5. Relinquished by / Received by	Org. Date Time	Org. Date Time
6. Relinquished by / Received by	Org. Date Time	Org. Date Time

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW Suspense Copy PINK- Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

SF 2001-COD (9...

AR/COC- 04895

Project Name: MWL Risk Assessment Project/Task Manager: Jerry Peace Case No.: 3618.500

Location — Tech Area 3 — Building N/A — Room N/A

Reference LOV (available at SMO): All @ 4°C

	Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270), TAL Metals	SVOC (8270)	TAL Metals plus Hg				pH	100% F411	Lab Sample ID
6	027835-01	150S: 125E	6"	76	3/12/96 0905	S	G	4oz	None	G	SA	X									
15	027835-02	"	6"	76	3/12/96 0905	S	G	8oz	None	G	SA		X								
7	027836-01	200S: 125E	6"	76	3/12/96 0913	S	G	4oz	None	G	SA	X									
16	027836-02	"	6"	76	3/12/96 0913	S	G	8oz	None	G	SA		X								
8	027837-01	50S: 50E	6"	76	3/12/96 0922	S	G	4oz	None	G	SA	X									
17	027837-02	"	6"	76	3/12/96 0922	S	G	8oz	None	G	SA		X								
9	027838-01	100S: 50E	6"	76	3/12/96 0931	S	G	4oz	None	G	SA	X									
18	027838-02	"	6"	76	3/12/96 0931	S	G	8oz	None	G	SA		X								
10	027839-01	150S: 50E	6"	76	3/12/96 0944	S	G	4oz	None	G	SA	X									
19	027839-02	"	6"	76	3/12/96 0944	S	G	8oz	None	G	SA		X								
11	027840-01	(Dup. of 027839-01) 150S: 50E	6"	76	3/12/96 0944	S	G	4oz	None	G	DU	X									
20	027840-02	(Dup. of 027839-02) "	6"	76	3/12/96 0944	S	G	8oz	None	G	DU		X								
12	027841-01	200S: 50E	6"	76	3/12/96 0953	S	G	4oz	None	G	SA	X									
23	027841-02	"	6"	76	3/12/96 0953	S	G	8oz	None	G	SA		X								
13	027853-01	Equipment Blank	N/A	76	3/12/96 1000	DIW	AG	2x1L	None	G	EB			X						X2	
24	027853-02	"	N/A	76	3/12/96 1000	DIW	G	1L	HNO3	G	EB				X				1		
21	027853-03	"	N/A	76	3/12/96 1000	DIW	G	3x40ml	HCL	G	EB	X								X3	
22	027855-01	Trip Blank	N/A	76	3/12/96 1000	DIW	G	40ml	HCL	G	TB	X									

Abnormal Conditions on Receipt

Recipient Initial

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- Suspense Copy PINK- Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

SF 2001-COD (9-94)

AR/COC- 04895

Project Name: MWL Risk Assessment Project/Task Manager: Jerry Peace Case No.: 3618.500

Location — Tech Area 3 — Building N/A — Room N/A

Reference LOV (available at SMO): All @ 4°C

Parameter & Method Requested

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	VOC (8260)										Lab Sample ID
027854-01	Trip Blank	N/A	76	3/12/96 1000	S	G	25ml	None	G	TB	X									V	

Abnormal Conditions on Receipt

Recipient Initials

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- Suspense Copy PINK- Field Copy

Quanterra March 22, 1996 04:46 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10632

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by: PM Review:

Sample ~~Header~~ Template:

Sample No. / #	Client ID / Comments / Container Type	C-Matrix / Analysis	Date: Collected / Class	Received / Preservative	Due / Anal. Due Date	Shipper / Hold Date	Site	Rad Category / (Container Numbers:% Filled)	Rad Sample No.
10632-001	027830-01/70S:180E	Soil	12-MAR-96 08:27	22-MAR-96 09:00	19-APR-96	FED EX		3*	Sample not Screened
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H	(220704:100)	
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H	(220704:100)	
10632-002	027831-01/120S:180E	Soil	12-MAR-96 08:33	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-023
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H	(220705:100)	
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H	(220705:100)	
10632-003	027832-01/170S:180E	Soil	12-MAR-96 08:40	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-022
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H	(220706:100)	
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H	(220706:100)	
10632-004	027833-01/50S:125E	Soil	12-MAR-96 08:49	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-021
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H	(220707:100)	
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H	(220707:100)	
10632-005	027834-01/100S:125E	Soil	12-MAR-96 08:56	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-020
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H	(220708:100)	
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H	(220708:100)	
10632-006	027835-01/150S:125E	Soil	12-MAR-96 09:05	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-019
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H	(220709:100)	
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H	(220709:100)	
10632-007	027836-01/200S:125E	Soil	12-MAR-96 09:13	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-018
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H	(220710:100)	
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H	(220710:100)	

Data:

3*=Sample has not been rad screened.

Quanterra March 22, 1996 04:46 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10632

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / #	Client ID / Comments / Container Type	C-Matrix / Analysis	Date: Collected / Class	Received / Preservative	Due / Anal. Due Date	Shipper / Hold Date	Site	Rad Category	Rad Sample No. / (Container Numbers:% Filled)
Data:									
10632-008	027837-01/50S:50E	Soil	12-MAR-96 09:22	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-017
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H		(220711:100)
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H		(220711:100)
10632-009	027838-01/100S:50E	Soil	12-MAR-96 09:31	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-016
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H		(220712:100)
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H		(220712:100)
10632-010	027839-01/150S:50E	Soil	12-MAR-96 09:44	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-015
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H		(220713:100)
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H		(220713:100)
10632-011	027840-01/150S:50E	Soil	12-MAR-96 09:44	22-MAR-96 09:00	19-APR-96	FED EX		3*	Sample not Screened
DUP of 027839-01									
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H		(220714:100)
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H		(220714:100)
10632-012	027830-02/70S:180E	Soil	12-MAR-96 08:27	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-013
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220716:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220716:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220716:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220716:100)
10632-013	027831-02/120S:180E	Soil	12-MAR-96 08:33	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-012
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220717:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220717:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220717:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220717:100)
10632-014	027832-02/170S:180E	Soil	12-MAR-96 08:40	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-011

3*=Sample has not been rad screened.

Quanterra March 22, 1996 04:46 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10632

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / #	Client ID / Container Type	C-Matrix / Analysis	Date: Collected / Class	Received / Preservative	Due / Anal. Due Date	Shipper / Hold Date	Site	Rad Category	Rad Sample No. / (Container Numbers:% Filled)
Comments									
Data:									
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220718:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220718:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220718:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220718:100)
10632-015	027833-02/50S:125E	Soil	12-MAR-96 08:49	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-010
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220719:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220719:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220719:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220719:100)
10632-016	027834-02/100S:125E	Soil	12-MAR-96 08:56	22-MAR-96 09:00	19-APR-96	FED EX		3*	Sample not Screened
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220720:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220720:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220720:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220720:100)
10632-017	027835-02/150S:125E	Soil	12-MAR-96 09:05	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-008
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220721:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220721:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220721:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220721:100)
10632-018	027836-02/200S:125E	Soil	12-MAR-96 09:13	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-007
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220722:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220722:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220722:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220722:100)
10632-019	027837-02/50S:50E	Soil	12-MAR-96 09:22	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-006
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220723:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220723:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220723:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220723:100)

3*=Sample has not been rad screened.

Quanterra March 22, 1996 04:46 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10632

'roject Manager: D. Mueller

'raft: Final: Entered and Reviewed by:_____ PM Review:_____

'ample Header Template: _____

'ample No.	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
10632-020	027838-02/100S:50E	Soil	12-MAR-96 09:31	22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-005

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J	(220724:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J	(220724:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J	(220724:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J	(220724:100)

0632-021	027839-02/150S:50E	Soil	12-MAR-96 09:44	22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-004

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J	(220725:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J	(220725:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J	(220725:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J	(220725:100)

0632-022	027840-02/150S:50E	Soil	12-MAR-96 09:44	22-MAR-96 09:00	19-APR-96	FED EX	3*	Sample not Screened

DUP of 027839-02

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J	(220726:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J	(220726:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J	(220726:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J	(220726:100)

10632-023	027841-02/200S:50E	Soil	12-MAR-96 09:53	22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-002

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J	(220727:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J	(220727:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J	(220727:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J	(220727:100)

0632-024	027841-01/200S:50E	Soil	12-MAR-96 09:53	22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-001

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H	(220729:100)
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H	(220729:100)

10632-025	027853-01/EQUIPMENT BLANK	Water	12-MAR-96 10:00	22-MAR-96 09:00	19-APR-96	FED EX	1	Screening not Required

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
2	AN - Amber Glass-1L	BNA/8270/Q4	S	COLD	12-APR-96	19-MAR-96	S5J	(220731:100 220732:99)

3*=Sample has not been rad screened.

Quanterra March 22, 1996 04:46 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10632

roject Manager: D. Mueller

raft: Final: Entered and Reviewed by:_____ PM Review:_____

ample Header Template: _____

ample No.	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
Comments								
# Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site		(Container Numbers:% Filled)
ata:								
0632-026	027853-02/EQUIPMENT BLANK	Water	12-MAR-96 10:00	22-MAR-96 09:00	19-APR-96	FED EX	1	Screening not Required
1 GN - Glass Jar-1L	HG/7470/Q4	S	HNO3	12-APR-96	09-APR-96	S5J		(220735:100)
1	ICAPT/6010/Q4	S	HNO3	12-APR-96	08-SEP-96	S5J		(220735:100)
0632-027	027853-03/EQUIPMENT BLANK	Water	12-MAR-96 10:00	22-MAR-96 09:00	19-APR-96	FED EX	1	Screening not Required
3 VI - Vial-40ml	VOA/8260/Q4	S	HCL	12-APR-96	26-MAR-96	109H		(220737:100 220738:99 220739:98)
0632-028	027855-01/TRIP BLANK	Water	12-MAR-96 10:00	22-MAR-96 09:00	19-APR-96	FED EX	1	Screening not Required
1 VI - Vial-40ml	VOA/8260/Q4	S	HCL	12-APR-96	26-MAR-96	109H		(220740:100)
0632-029	027854-01/TRIP BLANK	Soil	12-MAR-96 10:00	22-MAR-96 09:00	19-APR-96	FED EX	1	Screening not Required
1 GN - Glass Jar-250ML	VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H		(220744:100)

*=Sample has not been rad screened.

Quanterra
Environmental Services

BWtDm
3-22-96
11:00
2m

Login No.: 10632

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Sandia
Date: 3-22-96 Time: 0900
Project No: 605.09
Initiated by: [illegible]
Shipper/No: FedEx 396 3220 755
RFA/COC Numbers: 04895

Condition/Variance (Check all that apply):

1. ☐ Sample received broken/leaking.
2. ☐ Sample received without proper preservative.
   - ☐ Cooler temperature not within 4°C ± 2°C
     Record temperature: _____
   - ☐ pH _____
   - ☐ other: _____
3. ☐ Sample received in improper container.
4. ☐ Sample received without proper paperwork. Explain: _____
5. ☐ Paperwork received without sample.
6. ☐ No sample ID on sample container.
7. ☐ Custody tape disturbed/broken/missing.
8. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
9. ☐ All coolers on airbill not received with shipment.
10. ☐ Other (explain below): _____

☑ No variances were noted during sample receipt. Cooler Temperature Upon Receipt: 2°C

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____

☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is".

☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: (or designate) [signature] Date: 3-22-96

Project Management Review: [signature] Date: 3-22-96

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 11/24/95

Quanterra Environmental Services

Quanterra Incorporated
13715 Rider Trail North
Earth City, Missouri 63045

314 298-8566 Telephone
314 298-8757 Fax

CASE NARRATIVE

RECEIVED
APR 22 1996
SNL/SMO

April 19, 1996

Sandia National Laboratory
BDM Bldg-2301 Buena Vista SE
Mail Stop 1347
Albuquerque, NM 87106

ATTN: Pam Puissant

This is the Case Narrative of the following samples:

Sandia Case Number	:	3618.500
Sandia Contract Number	:	AJ-2480B
Sandia Dept. Number	:	7585
Sandia Project Manager	:	Jerry Peace
Sandia Project Name	:	MWL Risk Assessment
AR/COC Number	:	04895
Quanterra Login Number	:	10632
St. Louis Project ID	:	605.09
Date Received	:	March 22, 1996
Number of Samples	:	Twenty-nine (29)
Samples Type	:	Twenty-five (25) Soil Four (4) Water

I. INTRODUCTION

On March 22, 1996, twenty-five (25) soil and four (4) water samples were received at Quanterra Environmental Services, Earth City, MO from Sandia National Laboratories. The list of analytical tests performed, as well as date of receipt and analysis, can be found in the attached report.

All analytical results and quality control data for this data package were obtained in accordance with the contractual requirements and meet Quanterra's Quality Assurance Program which has been approved by Sandia National Laboratory.

Reviewed and Approved:

Diane W. Mueller

Diane W. Mueller
Quanterra Project Manager

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10632
Lab Project ID : 605.09

I. INTRODUCTION (continued)

The samples were labeled as follows:

CLIENT SAMPLE ID	LAB SAMPLE NUMBER	PARAMETERS REQUIRED
027830-01/70S:180E	10632-001	Volatiles 8260
027831-01/120S:180E	10632-002	Volatiles 8260
027832-01/170S:180E	10632-003	Volatiles 8260
027833-01/50S:125E	10632-004	Volatiles 8260
027834-01/100S:125E	10632-005	Volatiles 8260
027835-01/150S:125E	10632-006	Volatiles 8260
027836-01/200S:125E	10632-007	Volatiles 8260
027837-01/50S:50E	10632-008	Volatiles 8260
027838-01/100S:50E	10632-009	Volatiles 8260
027839-01/150S:50E	10632-010	Volatiles 8260
027840-01/150S:50E	10632-011	Volatiles 8260
027830-02/70S:180E	10632-012	BNA; Metals; Mercury
027831-02/120S:180E	10632-013	BNA; Metals; Mercury
027832-02/170S:180E	10632-014	BNA; Metals; Mercury
027833-02/50S:125E	10632-015	BNA; Metals; Mercury
027834-02/100S:125E	10632-016	BNA; Metals; Mercury
027835-02/150S:125E	10632-017	BNA; Metals; Mercury
027836-02/200S:125E	10632-018	BNA; Metals; Mercury
027837-02/50S:50E	10632-019	BNA; Metals; Mercury
027838-02/100S:50E	10632-020	BNA; Metals; Mercury
027839-02/150S:50E	10632-021	BNA; Metals; Mercury
027840-02/150S:50E	10632-022	BNA; Metals; Mercury
027841-02/200S:50E	10632-023	BNA; Metals; Mercury
027841-01/200S:50E	10632-024	Volatiles 8260
027853-01/EQUIPMENT BLANK	10632-025	BNA
027853-02/EQUIPMENT BLANK	10632-026	Metals; Mercury
027853-03/EQUIPMENT BLANK	10632-027	Volatiles 8260
027855-01/TRIP BLANK	10632-028	Volatiles 8260
027854-01/TRIP BLANK	10632-029	Volatiles 8260

II. RESULTS/METHODOLOGY

The analytical results for this report are presented by analytical tests. Each set of data will include sample identification, analytical results and the appropriate detection limits.

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10632
Lab Project ID : 605.09

The samples were prepared and analyzed using the following method:

Test	Method
Volatiles 8260	EPA 8260
Semivolatiles	EPA 8270
Metals	EPA 6010
Mercury	EPA 7470

III. QUALITY CONTROL

QA/QC information was performed on the enclosed analytical data. The purpose of QA/QC information is to ensure the user that the data enclosed are scientifically valid and are used to assess the laboratory's performance.

IV. ABBREVIATIONS/DEFINITIONS

NC	=	No criteria at this time
NA	=	Not applicable
ND	=	Non - detect
MG/L	=	Milligrams per liter
MG/KG	=	Milligrams per kilogram
UG/KG	=	Micrograms per kilogram
%REC	=	Percent Recovery
QCBLK	=	Method Blank
QCLCS	=	Laboratory Control Sample
CRDL	=	Customer Required Detection Limit
RPD	=	Relative Percent Difference
IDL	=	Instrument detection limit
DL	=	PQL
J	=	Estimated Value
D	=	Diluted
U	=	Non - Detect
B	=	Compound found in method blank

Quanterra holds to the following belief for Organic analyses:
The MDL is the minimum value at which a found concentration can be measured with confidence (99%) as being greater than zero. The MDL is not a limit of detection if a concentration is not measured. Therefore, the PQL is the practical limit of detection when a value is not measured.

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10632
Lab Project ID : 605.09

Our SOP is written with a minimum value that would have been reported by software or reviewed by the analysts. For GC/MS analyses (method 8240, 8260, and 8270), Quanterra, St. Louis reports positive results for analytes less than the PQL, but greater than 1-ug/ml for 8270 and 1-ng/ml for 8240 and 8260 with a "J" flag, indication "estimated concentration." The software has thresholds which are set to reject results less than 1. This minimum reportable value is the MRV. GC analyses (Pest/PCB) requires a second column confirmation of positive results. Results less than the PQL are not reported since a valid confirmation analysis would not necessarily have been performed.

Quanterra believes that the appropriate value to be reported for all organic sample results that are non detected is the PQL value with a "U" flag. At Sandia's request, we have reported the MRV (minimum reportable value) or the MDL, whichever is greater, as the sample result with a "U" flag for any nondetected results for VOA and BNA.

V. NONCONFORMANCES

VOLATILES

There are no nonconformances associated with this analysis.

SEMIVOLATILES

Sample 027853-01/EQUIPMENT BLANK 10632-025) was received 3 days out of hold time and extracted 6 days out of hold time. The client was notified and asked that we process the sample "as is". See enclosed Nonconformance Log# 2593 and Conversation Record dated 3/20/96.

METALS/MERCURY

There are no nonconformances associated with this analysis.

VI. COMMENTS

VOLATILES

Please refer to E-mail correspondence regarding surrogate recoveries on the hard copy report. The hard copy will be revised to accommodate this information, but at the present time only the found value is reflected on the hard copy. We have supplied the missing information on a Form II. The EDD contains all of the information for surrogate recoveries.

Date: April 19, 1996

Sandia Project Manager : Jerry Peace
Sandia Project Name : MWL Risk Assessment
Quanterra Login Number : 10632
Lab Project ID : 605.09

SEMIVOLATILES

Please refer to E-mail correspondence regarding surrogate recoveries on the hard copy report. The hard copy will be revised to accommodate this information, but at the present time only the found value is reflected on the hard copy. We have supplied the missing information on a Form II. The EDD contains all of the information for surrogate recoveries.

METALS/MERCURY

There are no comments associated with this analysis.

Memorandum

TO: Kathy Becker

FROM: Diane Mueller

DATE: 3/26/96

SUBJECT: AR/COC 04895

Attached are the following:

Signed and dated copy of AR/COC 04895

Quanterra's in-house COC (Login Number 10632) which can be used as a cross reference for client and lab sample I.D's

Signed and dated Quanterra Condition Upon Receipt

Preliminary Invoice

On March 22, 1996, one (1) cooler was received at Quanterra, St. Louis. The temperature of this cooler was 2° C.

Sample 027855-01/EQUIPMENT BLANK was received 3 days out of hold time. Per client request the sample will be processed "as is"

TAT requested is Normal turn = 30 days

1 Comp 2 Cont 6610

Internal Lab Batch No. _____

ANALYSIS REQUEST AND CHAIN OF CUSTODY

PAGE __ OF __

SF 2001-COC (6-95)

AR/COC- 04095

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/3 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0225

Date Samples Shipped: 3-21-96
Carrier/Waybill No.: A60084
Lab Contact: Dianne Meeller
Lab Destination: Quanterra St. Louis
SMO Contact/Phone: Pam Russell 844-6702
Send Report to SMO Yes, Pam Russell

Contract No.: AT-2460B
Case No.: 3CA-SS
SMO Authorization:
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185 0154

Location — Tech Area 3 — Building N/A — Room N/A

Reference LOV (available at SMO)

	Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative (All @ 4°C)	Sample Collection Method	Sample Type	VOC (1-2-3-6)	SVOC (1-2-3-6)	TPH (1-2-3-6)	Lab Sample ID
1	027830-01	705: 180E	6"	76	3/12/96 0827	S	G	4oz	None	G	SA	X			
1B	027830-02	"	6"	76	3/12/96 0827	S	G	8oz	None	G	SA		X		
2	027831-01	1205: 180E	6"	76	3/12/96 0833	S	G	4oz	None	G	SA				
2B	027831-02	"	6"	76	3/12/96 0833	S	G	8oz	None	G	SA		X		
3	027832-01	1705: 180E	6"	76	3/12/96 0840	S	G	4oz	None	G	SA	X			
4	027832-02	"	6"	76	3/12/96 0840	S	G	8oz	None	G	SA		X		
4	027833-01	505: 125E	6"	76	3/12/96 0849	S	G	4oz	None	G	SA	X			
5	027833-02	"	6"	76	3/12/96 0849	S	G	8oz	None	G	SA		X		
5	027834-01	1005: 125E	6"	76	3/12/96 0856	S	G	4oz	None	G	SA	X			
5	027834-02	"	6"	76	3/12/96 0856	S	G	8oz	None	G	SA		X		

RMMA ☒ Yes ☐ No Ref. No. _____

Sample Disposal ☐ Return to Client ☒ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date _____

Special Instructions/QC Requirements: Please list on separate report. Released by CCR 07847

Abnormal Conditions on Receipt

Sample Team Members	Name	Signature	Init	Company/Organization/Phone
	Jerry Peace	[signature]	JP	SNL/7585/284-2472
	Tim Greeing	[signature]	TG	GRAM/7551/284-1563
	Mike McVey	[signature]	MM	GRAM/7585/284-2591

	Org.	Date	Time
1. Relinquished by	7585	3/13/96	1400
1. Received by	MO 7513	3/13/96	1400
2. Relinquished by	7513	3/21/96	1400
2. Received by	Quanterra	3-22-96	09:00
3. Relinquished by			
3. Received by			
4. Relinquished by			
4. Received by			
5. Relinquished by			
5. Received by			
6. Relinquished by			
6. Received by			

WHITE - To Accompany Samples, Laboratory Copy BLUE - To Accompany Samples, Return to SMO YELLOW - SMO Suspense Copy PINK - Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

SF 2001-COD (9-9..)

AR/COC- 04875

Project Name: MWL Risk Assessment Project/Task Manager: Jerry Peace Case No.: 3618.500

Location Tech Area 3

Building N/A Room N/A

	Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative (All @ 4°C)	Sample Collection Method	Sample Type	VOC (8260)	SVOC (8270), TAL Metals	SVOC (8270)	TAL Metals, Hg					pH		Lab Sample ID
6	027835-01	150s: 125E	6"	76	3/12/96 0905	S	G	4oz	None	G	SA	X										
7	027835-02	"	6"	76	3/12/96 0905	S	G	8oz	None	G	SA		X									
8	027836-01	200s: 125E	6"	76	3/12/96 0913	S	G	4oz	None	G	SA	X										
9	027836-02	"	6"	76	3/12/96 0913	S	G	8oz	None	G	SA		X									
8	027837-01	50s: 50E	6"	76	3/12/96 0922	S	G	4oz	None	G	SA	X										
11	027837-02	"	6"	76	3/12/96 0922	S	G	8oz	None	G	SA		X									
9	027838-01	100s: 50E	6"	76	3/12/96 0931	S	G	4oz	None	G	SA	X										
12	027838-02	"	6"	76	3/12/96 0931	S	G	8oz	None	G	SA		X									
10	027839-01	150s: 50E	6"	76	3/12/96 0944	S	G	4oz	None	G	SA	X										
13	027839-02	"	6"	76	3/12/96 0944	S	G	8oz	None	G	SA		X									
11	027840-01	(Dup. of 027839-01) 150s: 50E	6"	76	3/12/96 0944	S	G	4oz	None	G	DU	X										
14	027840-02	(Dup. of 027839-02) "	6"	76	3/12/96 0944	S	G	8oz	None	G	DU		X									
24	027841-01	200s: 50E	6"	76	3/12/96 0953	S	G	4oz	None	G	SA	X										
23	027841-02	"	6"	76	3/12/96 0953	S	G	8oz	None	G	SA		X									
25	027853-01	Equipment Blank	N/A	76	3/12/96 1000	DIW	AG	2x1L	None	G	EB			X							X	
26	027853-02	"	N/A	76	3/12/96 1000	DIW	G	1L	HNO3	G	EB				X					1		
27	027853-03	"	N/A	76	3/12/96 1000	DIW	G	3x40ml	HCL	G	EB	X									X	
28	027855-01	Trip Blank	N/A	76	3/12/96 1000	DIW	G	40ml	HCL	G	TB	X										

Parameter & Method Requested

Abnormal Conditions on Receipt

Recipient Init

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

SF 2001-COD (9-

AR/COC- [illegible]

Project Name: MWL Risk Assessment Project/Task Manager: Jerry Peace Case No.: 3618.500

Location Tech Area 3

Building N/A Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Reference LOV (available at SMO): Sample Matrix	Container: Type	Container: Volume	Preservative (All @ 4°C)	Sample Collection Method	Sample Type	Parameter & Method Requested: VOC (8260)									Lab Sample ID
02785 4-01	Trip Blank	N/A	76	3/12/96 1000	S	G	25ml	None	G	TB	X								✓	

Abnormal Conditions on Receipt

Recipient Initials _____

WHITE - To Accompany Samples, Laboratory Copy **BLUE**- To Accompany Samples, Return to SMO **YELLOW**- SMO Suspense Copy **PINK**- Field Copy

Quanterra March 22, 1996 04:46 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10632

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by: PM Review:

Sample Header Template:

Sample No. / #	Client ID / Container Type	C-Matrix / Analysis	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No. (Container Numbers:% Filled)
10632-001	027830-01/70S:180E	Soil	12-MAR-96 08:27	22-MAR-96 09:00	19-APR-96	FED EX	3*	Sample not Screened
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	12-APR-96	18-SEP-96 109H			(220704:100)
1		VOA/8260/Q4	S COLD	12-APR-96	26-MAR-96 109H			(220704:100)
10632-002	027831-01/120S:180E	Soil	12-MAR-96 08:33	22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-023
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	12-APR-96	18-SEP-96 109H			(220705:100)
1		VOA/8260/Q4	S COLD	12-APR-96	26-MAR-96 109H			(220705:100)
10632-003	027832-01/170S:180E	Soil	12-MAR-96 08:40	22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-022
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	12-APR-96	18-SEP-96 109H			(220706:100)
1		VOA/8260/Q4	S COLD	12-APR-96	26-MAR-96 109H			(220706:100)
10632-004	027833-01/50S:125E	Soil	12-MAR-96 08:49	22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-021
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	12-APR-96	18-SEP-96 109H			(220707:100)
1		VOA/8260/Q4	S COLD	12-APR-96	26-MAR-96 109H			(220707:100)
10632-005	027834-01/100S:125E	Soil	12-MAR-96 08:56	22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-020
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	12-APR-96	18-SEP-96 109H			(220708:100)
1		VOA/8260/Q4	S COLD	12-APR-96	26-MAR-96 109H			(220708:100)
10632-006	027835-01/150S:125E	Soil	12-MAR-96 09:05	22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-019
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	12-APR-96	18-SEP-96 109H			(220709:100)
1		VOA/8260/Q4	S COLD	12-APR-96	26-MAR-96 109H			(220709:100)
10632-007	027836-01/200S:125E	Soil	12-MAR-96 09:13	22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-018
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S COLD	12-APR-96	18-SEP-96 109H			(220710:100)
1		VOA/8260/Q4	S COLD	12-APR-96	26-MAR-96 109H			(220710:100)

Comments
Data:

3*=Sample has not been rad screened.

Quanterra March 22, 1996 04:46 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10632

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / #	Client ID / Comments / Container Type / Data:	C-Matrix / Analysis	Date: Collected / Class	Received / Preservative	Due / Anal. Due Date	Shipper / Hold Date	Site	Rad Category	Rad Sample No. (Container Numbers:% Filled)
10632-008	027837-01/50S:50E	Soil	12-MAR-96 09:22	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-017
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H		(220711:100)
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H		(220711:100)
10632-009	027838-01/100S:50E	Soil	12-MAR-96 09:31	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-016
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H		(220712:100)
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H		(220712:100)
10632-010	027839-01/150S:50E	Soil	12-MAR-96 09:44	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-015
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H		(220713:100)
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H		(220713:100)
10632-011	027840-01/150S:50E	Soil	12-MAR-96 09:44	22-MAR-96 09:00	19-APR-96	FED EX		3*	Sample not Screened
	DUP of 027839-01								
1	AW - Amber Glass-4oz	RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	109H		(220714:100)
1		VOA/8260/Q4	S	COLD	12-APR-96	26-MAR-96	109H		(220714:100)
10632-012	027830-02/70S:180E	Soil	12-MAR-96 08:27	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-013
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220716:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220716:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220716:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220716:100)
10632-013	027831-02/120S:180E	Soil	12-MAR-96 08:33	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-012
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220717:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220717:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220717:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220717:100)
10632-014	027832-02/170S:180E	Soil	12-MAR-96 08:40	22-MAR-96 09:00	19-APR-96	FED EX		3*	R4804-011

3*=Sample has not been rad screened.

Quanterra Mar 22, 1996 04:46 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10632

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / #	Client ID / Container Type	C-Matrix / Analysis	Date: Collected / Class	Received / Preservative	Due / Anal. Due Date	Shipper / Hold Date	Site	Rad Category	Rad Sample No. / (Container Numbers:% Filled)
Comments Data:									
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220718:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220718:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220718:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220718:100)
10632-015	027833-02/50S:125E	Soil	12-MAR-96 08:49		22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-010
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220719:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220719:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220719:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220719:100)
10632-016	027834-02/100S;125E	Soil	12-MAR-96 08:56		22-MAR-96 09:00	19-APR-96	FED EX	3*	Sample not Screened
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220720:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220720:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220720:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220720:100)
10632-017	027835-02/150S:125E	Soil	12-MAR-96 09:05		22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-008
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220721:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220721:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220721:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220721:100)
10632-018	027836-02/200S:125E	Soil	12-MAR-96 09:13		22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-007
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220722:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220722:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220722:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220722:100)
10632-019	027837-02/50S:50E	Soil	12-MAR-96 09:22		22-MAR-96 09:00	19-APR-96	FED EX	3*	R4804-006
1	AW - Amber Glass-8oz	BNA/8270/Q4	S	COLD	12-APR-96	26-MAR-96	S5J		(220723:100)
1		HG/7470/Q4	S	COLD	12-APR-96	09-APR-96	S5J		(220723:100)
1		ICAPT/6010/Q4	S	COLD	12-APR-96	08-SEP-96	S5J		(220723:100)
1		RAD/SCREEN/Q4	S	COLD	12-APR-96	18-SEP-96	S5J		(220723:100)

3*=Sample has not been rad screened.

Quanterra March 22, 1996 04:46 pm
Account: 11077 Project: 605.09 Sandia National Labs QAS No. 605.09 Rev. 0
Master Sample Login: 10632

Project Manager: D. Mueller

Draft: Final: Entered and Reviewed by:_____ PM Review:_____

Sample Header Template: _____

Sample No. / #	Client ID / Container Type	Analysis	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No. (Container Numbers:% Filled)	Comments / Data:
10632-026	027853-02/EQUIPMENT BLANK		Water	12-MAR-96 10:00	22-MAR-96 09:00	19-APR-96	FED EX	1	Screening not Required	
1	GN - Glass Jar-1L	HG/7470/Q4		S HNO3	12-APR-96	09-APR-96	S5J		(220735:100)	
1		ICAPT/6010/Q4		S HNO3	12-APR-96	08-SEP-96	S5J		(220735:100)	
10632-027	027853-03/EQUIPMENT BLANK		Water	12-MAR-96 10:00	22-MAR-96 09:00	19-APR-96	FED EX	1	Screening not Required	
3	VI - Vial-40ml	VOA/8260/Q4		S HCL	12-APR-96	26-MAR-96	109H		(220737:100 220738:99 220739:98)	
10632-028	027855-01/TRIP BLANK		Water	12-MAR-96 10:00	22-MAR-96 09:00	19-APR-96	FED EX	1	Screening not Required	
1	VI - Vial-40ml	VOA/8260/Q4		S HCL	12-APR-96	26-MAR-96	109H		(220740:100)	
10632-029	027854-01/TRIP BLANK		Soil	12-MAR-96 10:00	22-MAR-96 09:00	19-APR-96	FED EX	1	Screening not Required	
1	GN - Glass Jar-250ML	VOA/8260/Q4		S COLD	12-APR-96	26-MAR-96	109H		(220744:100)	

3*=Sample has not been rad screened.

Quanterra
Environmental Services

BWTDM
3-22-96
11:00
2m

Login No.: 1063

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: Sandia

Date: 3-22-96 Time: 0900

Project No: 605.09

Initiated by: Fred Mitchell

Shipper/No: FedEx 396 3220 755

RFA/COC Numbers: 04895

Condition/Variance (Check all that apply):

1. ☐ Sample received broken/leaking.
2. ☐ Sample received without proper preservative.
   - ☐ Cooler temperature not within 4°C ± 2°C
     Record temperature: _____
   - ☐ pH _____
   - ☐ other: _____
3. ☐ Sample received in improper container.
4. ☐ Sample received without proper paperwork. Explain: _____
5. ☐ Paperwork received without sample.
6. ☐ No sample ID on sample container.
7. ☐ Custody tape disturbed/broken/missing.
8. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
9. ☐ All coolers on airbill not received with shipment.
10. ☐ Other (explain below): _____

☑ No variances were noted during sample receipt. Cooler Temperature Upon Receipt: 2°C

Notes:

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____

☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is".

☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: (or designate) Fred Mitchell Date: 3-22-96

Project Management Review: Lacky A Giacopelli Date: 3-22-96

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 11/24/95

LOG #: 2593

LABORATORY NONCONFORMANCE MEMO (NCM)

Quanterra Incorporated

'roject ID/Client: 605.09

NCM Initiated by/Date: Diane Mueller 3-25-96 Project Manager: Diane Mueller

Sample Numbers/QC batch or lot numbers: 10632-025, ~~-026~~, ~~-027~~, ~~-028~~ KW 4-19-96

Tests: ~~VOA-8240~~ BNA 8270 DWM 4-19-96

Analytical Area (check appropriate area):

- ☐ Sample control
- ☑ Organic preparation
- ☐ Inorganic preparation
- ☐ GC
- ☐ HPLC
- ☐ GC/MS
- ☐ Wet chemistry
- ☐ Metals
- ☐ Reporting
- ☐ Data review
- ☐ Radiochemistry
- ☐ _____

Nonconformance (check appropriate area): *To be completed by analyst*

Holding Time Violations (exceeded by 7 days)

Category I: Laboratory Independent

- ☑ 1. Holding time expired in transit
- ☐ 2. Sample rec'd > 48 hrs after sampling. or ½ holding time has expired
- ☐ 3. Test added by client after expiration

Category II: Laboratory Dependent

- ☐ 4. Instrument failure
- ☐ 5. Analyst error
- ☐ 6. Log-in error
- ☐ 7. Miscommunication
- ☐ 8. Other (explanation required) _____

Category III: Analysis Reruns (QA/QC)

- ☐ 9. Surrogates
- ☐ 10. Internal standards
- ☐ 11. Spike recoveries
- ☐ 12. Blank contamination

Category IV: Analysis Reruns (Confirmation)

- ☐ 13. Second column
- ☐ 14. Contamination check
- ☐ 15. Confirmation of matrix effects
- ☐ 16. Other (explanation required) _____

Category V: Analysis Reruns (Dilution)

- ☐ 17. Over calibration
- ☐ 18. Under calibration
- ☐ 19. Other (explanation required) _____

Quality Assurance/Quality Control

- ☐ 20. QC data reported outside of controls
- ☐ 21. Incorrect procedure used
- ☐ 22. SOP intentionally modified with QA and tech approval
- ☐ 23. Invalid instrument calibration
- ☐ 24. Received insufficient sample for proper analysis

Incorrect or Incomplete Client Deliverable

- ☐ 25. Hardcopy deliverable error
- ☐ 26. Electronic deliverable error

Reported Detection Limits Elevated Due to:

- ☐ 27. Sample matrix: Does not include high analyte content
- ☐ 28. Insufficient sample volume
- ☐ 29. Other (explanation required)

Miscellaneous

- ☐ 30. Instrument/equipment Tag-out
- ☐ 31. Other (explanation required) _____

Notification (check appropriate area): ☐ **Required** ☐ **Not Required** *To be completed by project manager*

Client notified by (name and date): 4-19-96 Diane W Mueller

- ☑ In writing Case Narrative
- ☐ By facsimile
- ☐ By telephone
- ☐ Other (explain)

Client's name and response: Doug MacMcLaugh

- ☑ Process "as is"
- ☐ Re-sample
- ☐ On hold until _____
- ☐ Other (explain)

Project manager (signature and date): Diane W Mueller 4-19-96

605.09

Conversation Record

Quanterra Environmental Services

Time	Date	Project Number	Routing Name/Symbol	Routing Initial
am	3-20 96	605.09		

Type of Contact: ☐ Visit ☐ Conference ☐ Telephone ☐ Incoming ☐ Outgoing

Location of Visit or Conference:

Name of Person(s) Contacted	Organization (Office, Dept. etc.)	Telephone Number
Mac McLaughlin	Sandia	

Subject

Summary

Samples that are into the 9th or 10th day of hold time (due to problems with Rad Screens) will come finally tomorrow.

The waters will be out of hold time. He would like us to process out of hold time.

The Soils will be 10 days old Friday, when we receive them. He wanted to know if we would be able to meet hold time. I checked with Chris Weathington. He said it should not be a problem.

Action Required

Name of Person Documenting Conversation	Signature	Date
Diane W. Mueller	Diane W. Mueller	

Taken

Signature	Title	Date

file 10541
10577

Mueller, Diane

To: Pam Puissant
Subject: Hardcopy report for Organic Analysis

Pam, ARCOC 04893 (login 10541) will be shipped out by Fed-ex today. We ran into a little problem with the hardcopy report in regards to the surrogates. The only value hardcopy report is set for at present time for surrogates in the found value. All of the information is contained in the EDD. Please refer to Mike Franks below.
For ARCOC 04893 (login10541)due out today and ARCOC 04892 (login 10577) due to Sandia on April 12, 1996, we will leave the hardcopy report as is and will supply the missing information on a seperate forms.

If you have any questions, please call.

From: Franks, Mike
To: Mueller, Diane
Cc: Darnell, Darren; Giacopelli, Kathy
Subject: SANDIA NAT. LAB.
Date: Friday, April 05, 1996 10:47AM

ISSUE : SURROGATES ON THE HARD-COPY REPORT

SURROGATES ARE TO BE REPORTED LIKE LCS/DCS SAMPLES. i.e., WITH SPIKE ADDED AMOUNTS, UPPER CONTROL LIMIT, LOWER CONTROL, FOUND AMOUNT, AND PERCENT RECOVERY.

HOWEVER, I DID NOT TAKE THIS INTO CONSIDERATION WHILE THE HARD-COPY REPORT WAS BEING FORMATTED. THEREFORE, THE ONLY VALUES CONTAINED ON THE HARD-COPY REPORT FOR SURROGATES IS THE FOUND VALUE (OR RESULT). THE OTHER ITEMS MENTIONED ARE IN THE EDD.

FOR THE SAKE OF GETTING THIS REPORT (10541) OUT TODAY, WE WILL LEAVE THE REPORT AS IS, ALSO WE WILL SEND A FORM II ALONG WITH THE REPORT (FOR %REC.). THE REPORT WILL HAVE TO BE REVISED AT A LATER DATE (POSSIBLY WHEN I RETURN FROM VACATION)

MIKE

file 10541
10577

Mueller, Diane

To: Pam Puissant
Subject: Hardcopy report for Organic Analysis

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If you have any questions, please call.

From: Franks, Mike
To: Mueller, Diane
Cc: Darnell, Darren; Giacopelli, Kathy
Subject: SANDIA NAT. LAB.
Date: Friday, April 05, 1996 10:47AM

ISSUE : SURROGATES ON THE HARD-COPY REPORT

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MIKE

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: QUANTERRA MO Contract: 605-09

ab Code: ITMO Case No.: S63212 SAS No.: SDG No.: 10632

Level:(low/med) LOW

		EPA SAMPLE NO.	S1 (NBZ) #	S2. (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT	
			50	50	50	75	75	75			
JFU	01	10632-012	74	71	68	103	104	78	0	0	027830
	02	10632-013	71	73	68	97	99	74	0	0	027831
	03	10632-014	74	76	77	105	107	80	0	0	027832
	04	10632-015	73	72	74	94	97	81	0	0	027833
	05	10632-016	74	75	73	96	102	84	0	0	027834
	06	10632-017	73	76	73	102	105	85	0	0	027835
	07	10632-018	70	70	69	96	102	77	0	0	027836
	08	10632-019	75	73	73	103	107	78	0	0	027837
	09	10632-020	72	76	71	103	107	84	0	0	027838
JJB	10	10632-021	65	61	64	74	66	53	0	0	027839
	11	10632-022	73	64	71	80	70	58	0	0	027840
	12	10632-023	72	65	71	78	69	58	0	0	027841
JFU	13	SSPK02A	78	75	72	98	102	88	0	0	
	14	SSPK02B	74	74	70	95	94	89	0	0	
	15	SBLK02	81	77	75	108	119	92	0	0	

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

FORM II SV-2 1/87 Rev.

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: QUANTERRA MO Contract: 605-09

ıb Code: ITMO Case No.: S63212 SAS No.: SDG No.: 10632

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
		50	50	50	75	75	75		
01	10632-025	67	64	64	27	40	58	0	0
02	SBLK01	51	60	60	48	56	56	0	0
03	SSPK01A	66	73	69	36	51	65	0	0
04	SSPK01B	66	67	63	30	44	58	0	0

Client 10
02785-0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl	(33-141)
S4 (PHL)	= Phenol-d5	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

FORM II SV-1 1/87 Rev.

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: QUANTERRA MO Contract: 605-09

ab Code: ITMO Case No.: V63201 SAS No.: SDG No.: 10632

Analyst JLW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT	Client ID
01	10632-027	107	101	115	0	0	027853-03
02	10632-028	105	101	115	0	0	027855-01
03	VSPK01A	96	97	103	0	0	
04	VSPK01B	98	100	109	0	0	
05	VBLK01	100	102	106	0	0	

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: QUANTERRA MO Contract: 605-09

Lab Code: ITMO Case No.: V63201 SAS No.: SDG No.: 10632

Level: (low/med) LOW

Client 10's

		EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
27830-01	01	10362-001	96	101	98	0	0
27831-01	02	10362-002	106	110	107	0	0
27832-01	03	10362-003	98	97	104	0	0
27833-01	04	10362-004	100	106	108	0	0
27834-01	05	10362-005	94	111	100	0	0
27835-01	06	10362-006	98	106	109	0	0
27836-01	07	10362-007	101	108	113	0	0
27837-01	08	10362-008	100	96	105	0	0
27838-01	09	10362-009	99	97	105	0	0
27839-01	10	10362-010	101	97	111	0	0
27840-01	11	10362-011	106	106	115	0	0
27841-01	12	10362-024	105	108	111	0	0
27854-01	13	10362-029	101	100	112	0	0
	14	VSPK02A	100	98	101	0	0
	15	VSPK02B	104	91	107	0	0
	16	VBLK02	101	98	92	0	0

Low 10632

A matrix RETL

KRB

RER

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(81-117)
SMC2 (BFB)	= Bromofluorobenzene	(74-121)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027830-02/70S:180E
Lab Sample ID : 10632-012

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.2	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.2	1	25-MAR-96	02-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.2	1	25-MAR-96	02-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.2	1	25-MAR-96	02-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.2	1	25-MAR-96	02-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.2	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.2	1	25-MAR-96	02-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.2	1	25-MAR-96	02-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.2	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.2	1	25-MAR-96	02-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.2	1	25-MAR-96	02-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.2	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
Isophorone	30.2	1	25-MAR-96	02-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.2	1	25-MAR-96	02-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.2	1	25-MAR-96	02-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.2	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.2	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.2	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30.2	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.2	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.2	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.2	1	25-MAR-96	02-APR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027830-02/70S:180E
Lab Sample ID : 10632-012

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.2	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.2	1	25-MAR-96	02-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.2	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.2	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.2	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.2	1	25-MAR-96	02-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.2	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.2	1	25-MAR-96	02-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.2	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.2	1	25-MAR-96	02-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.2	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.2	1	25-MAR-96	02-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.2	1	25-MAR-96	02-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.2	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.2	1	25-MAR-96	02-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.2	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.2	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
Fluorene	30.2	1	25-MAR-96	02-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.2	1	25-MAR-96	02-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.2	1	25-MAR-96	02-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.2	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.2	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027830-02/70S:180E
Lab Sample ID : 10632-012

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.2	1	25-MAR-96	02-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.2	1	25-MAR-96	02-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.2	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Anthracene	30.2	1	25-MAR-96	02-APR-96	37	ND	U	330	UG/KG	
Carbazole	30.2	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.2	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.2	1	25-MAR-96	02-APR-96	38	ND	U	330	UG/KG	
Pyrene	30.2	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.2	1	25-MAR-96	02-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.2	1	25-MAR-96	02-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.2	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
Chrysene	30.2	1	25-MAR-96	02-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.2	1	25-MAR-96	02-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.2	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.2	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.2	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.2	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.2	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.2	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.2	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.2	1	25-MAR-96	02-APR-96		37			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027830-02/70S:180E
Lab Sample ID : 10632-012

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.2	1	25-MAR-96	02-APR-96		36			UG/KG	
Terphenyl-d14	30.2	1	25-MAR-96	02-APR-96		34			UG/KG	
Phenol-d5	30.2	1	25-MAR-96	02-APR-96		77			UG/KG	
2-Fluorophenol	30.2	1	25-MAR-96	02-APR-96		78			UG/KG	
2,4,6-Tribromophenol	30.2	1	25-MAR-96	02-APR-96		58			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027831-02/120S:180E
Lab Sample ID : 10632-013

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30	1	25-MAR-96	02-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30	1	25-MAR-96	02-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30	1	25-MAR-96	02-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30	1	25-MAR-96	02-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30	1	25-MAR-96	02-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30	1	25-MAR-96	02-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30	1	25-MAR-96	02-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30	1	25-MAR-96	02-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
Isophorone	30	1	25-MAR-96	02-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30	1	25-MAR-96	02-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30	1	25-MAR-96	02-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30	1	25-MAR-96	02-APR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027831-02/120S:180E
Lab Sample ID : 10632-013

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30	1	25-MAR-96	02-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30	1	25-MAR-96	02-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30	1	25-MAR-96	02-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30	1	25-MAR-96	02-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30	1	25-MAR-96	02-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30	1	25-MAR-96	02-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30	1	25-MAR-96	02-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
Fluorene	30	1	25-MAR-96	02-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30	1	25-MAR-96	02-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30	1	25-MAR-96	02-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027831-02/120S:180E
Lab Sample ID : 10632-013

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30	1	25-MAR-96	02-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30	1	25-MAR-96	02-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Anthracene	30	1	25-MAR-96	02-APR-96	37	ND	U	330	UG/KG	
Carbazole	30	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30	1	25-MAR-96	02-APR-96	38	ND	U	330	UG/KG	
Pyrene	30	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30	1	25-MAR-96	02-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30	1	25-MAR-96	02-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
Chrysene	30	1	25-MAR-96	02-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30	1	25-MAR-96	02-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30	1	25-MAR-96	02-APR-96		36			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027831-02/120S:180E
Lab Sample ID : 10632-013

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30	1	25-MAR-96	02-APR-96		36			UG/KG	
Terphenyl-d14	30	1	25-MAR-96	02-APR-96		34			UG/KG	
Phenol-d5	30	1	25-MAR-96	02-APR-96		73			UG/KG	
2-Fluorophenol	30	1	25-MAR-96	02-APR-96		74			UG/KG	
2,4,6-Tribromophenol	30	1	25-MAR-96	02-APR-96		56			UG/KG	

Sandia National Labs
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P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027832-02/170S:180E
Lab Sample ID : 10632-014

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.1	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.1	1	25-MAR-96	03-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.1	1	25-MAR-96	03-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.1	1	25-MAR-96	03-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.1	1	25-MAR-96	03-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.1	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.1	1	25-MAR-96	03-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.1	1	25-MAR-96	03-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.1	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.1	1	25-MAR-96	03-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.1	1	25-MAR-96	03-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.1	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
Isophorone	30.1	1	25-MAR-96	03-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.1	1	25-MAR-96	03-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.1	1	25-MAR-96	03-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.1	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.1	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.1	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30.1	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.1	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.1	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.1	1	25-MAR-96	03-APR-96	30	ND	U	330	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027832-02/170S:180E
Lab Sample ID : 10632-014

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.1	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.1	1	25-MAR-96	03-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.1	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.1	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.1	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.1	1	25-MAR-96	03-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.1	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.1	1	25-MAR-96	03-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.1	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.1	1	25-MAR-96	03-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.1	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.1	1	25-MAR-96	03-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.1	1	25-MAR-96	03-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.1	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.1	1	25-MAR-96	03-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.1	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.1	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
Fluorene	30.1	1	25-MAR-96	03-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.1	1	25-MAR-96	03-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.1	1	25-MAR-96	03-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.1	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.1	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027832-02/170S:180E
Lab Sample ID : 10632-014

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.1	1	25-MAR-96	03-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.1	1	25-MAR-96	03-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.1	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Anthracene	30.1	1	25-MAR-96	03-APR-96	37	ND	U	330	UG/KG	
Carbazole	30.1	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.1	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.1	1	25-MAR-96	03-APR-96	38	ND	U	330	UG/KG	
Pyrene	30.1	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.1	1	25-MAR-96	03-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.1	1	25-MAR-96	03-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.1	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
Chrysene	30.1	1	25-MAR-96	03-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.1	1	25-MAR-96	03-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.1	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.1	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.1	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.1	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.1	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.1	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.1	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.1	1	25-MAR-96	03-APR-96		37			UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027832-02/170S:180E
Lab Sample ID : 10632-014

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.1	1	25-MAR-96	03-APR-96		38			UG/KG	
Terphenyl-d14	30.1	1	25-MAR-96	03-APR-96		38			UG/KG	
Phenol-d5	30.1	1	25-MAR-96	03-APR-96		79			UG/KG	
2-Fluorophenol	30.1	1	25-MAR-96	03-APR-96		80			UG/KG	
2,4,6-Tribromophenol	30.1	1	25-MAR-96	03-APR-96		60			UG/KG	

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Client Sample ID : 027833-02/50S:125E
Lab Sample ID : 10632-015

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.4	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.4	1	25-MAR-96	03-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.4	1	25-MAR-96	03-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.4	1	25-MAR-96	03-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.4	1	25-MAR-96	03-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.4	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.4	1	25-MAR-96	03-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.4	1	25-MAR-96	03-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.4	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.4	1	25-MAR-96	03-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.4	1	25-MAR-96	03-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.4	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
Isophorone	30.4	1	25-MAR-96	03-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.4	1	25-MAR-96	03-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.4	1	25-MAR-96	03-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.4	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.4	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.4	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30.4	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.4	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.4	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.4	1	25-MAR-96	03-APR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027833-02/50S:125E
Lab Sample ID : 10632-015

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.4	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.4	1	25-MAR-96	03-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.4	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.4	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.4	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.4	1	25-MAR-96	03-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.4	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.4	1	25-MAR-96	03-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.4	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.4	1	25-MAR-96	03-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.4	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.4	1	25-MAR-96	03-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.4	1	25-MAR-96	03-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.4	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.4	1	25-MAR-96	03-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.4	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.4	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
Fluorene	30.4	1	25-MAR-96	03-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.4	1	25-MAR-96	03-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.4	1	25-MAR-96	03-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.4	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.4	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027833-02/50S:125E
Lab Sample ID : 10632-015

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.4	1	25-MAR-96	03-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.4	1	25-MAR-96	03-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.4	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Anthracene	30.4	1	25-MAR-96	03-APR-96	37	ND	U	330	UG/KG	
Carbazole	30.4	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.4	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.4	1	25-MAR-96	03-APR-96	38	ND	U	330	UG/KG	
Pyrene	30.4	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.4	1	25-MAR-96	03-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.4	1	25-MAR-96	03-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.4	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
Chrysene	30.4	1	25-MAR-96	03-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.4	1	25-MAR-96	03-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.4	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.4	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.4	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.4	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.4	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.4	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.4	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.4	1	25-MAR-96	03-APR-96		36			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027833-02/50S:125E
Lab Sample ID : 10632-015

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.4	1	25-MAR-96	03-APR-96		36			UG/KG	
Terphenyl-d14	30.4	1	25-MAR-96	03-APR-96		37			UG/KG	
Phenol-d5	30.4	1	25-MAR-96	03-APR-96		70			UG/KG	
2-Fluorophenol	30.4	1	25-MAR-96	03-APR-96		73			UG/KG	
2,4,6-Tribromophenol	30.4	1	25-MAR-96	03-APR-96		61			UG/KG	

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Albuquerque, NM 87185-5130

Client Sample ID : 027834-02/100S:125E
Lab Sample ID : 10632-016

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.2	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.2	1	25-MAR-96	03-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.2	1	25-MAR-96	03-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.2	1	25-MAR-96	03-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.2	1	25-MAR-96	03-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.2	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.2	1	25-MAR-96	03-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.2	1	25-MAR-96	03-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.2	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.2	1	25-MAR-96	03-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.2	1	25-MAR-96	03-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.2	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
Isophorone	30.2	1	25-MAR-96	03-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.2	1	25-MAR-96	03-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.2	1	25-MAR-96	03-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.2	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.2	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.2	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30.2	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.2	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.2	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.2	1	25-MAR-96	03-APR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027834-02/100S:125E
Lab Sample ID : 10632-016

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.2	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.2	1	25-MAR-96	03-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.2	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.2	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.2	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.2	1	25-MAR-96	03-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.2	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.2	1	25-MAR-96	03-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.2	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.2	1	25-MAR-96	03-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.2	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.2	1	25-MAR-96	03-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.2	1	25-MAR-96	03-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.2	1	25-MAR-96	03-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.2	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
Fluorene	30.2	1	25-MAR-96	03-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.2	1	25-MAR-96	03-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.2	1	25-MAR-96	03-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.2	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027834-02/100S:125E
Lab Sample ID : 10632-016

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.2	1	25-MAR-96	03-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.2	1	25-MAR-96	03-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.2	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Anthracene	30.2	1	25-MAR-96	03-APR-96	37	ND	U	330	UG/KG	
Carbazole	30.2	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.2	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.2	1	25-MAR-96	03-APR-96	38	ND	U	330	UG/KG	
Pyrene	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.2	1	25-MAR-96	03-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.2	1	25-MAR-96	03-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.2	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
Chrysene	30.2	1	25-MAR-96	03-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.2	1	25-MAR-96	03-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.2	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.2	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.2	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.2	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.2	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.2	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.2	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.2	1	25-MAR-96	03-APR-96		37			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027834-02/100S:125E
Lab Sample ID : 10632-016

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.2	1	25-MAR-96	03-APR-96		38			UG/KG	
Terphenyl-d14	30.2	1	25-MAR-96	03-APR-96		36			UG/KG	
Phenol-d5	30.2	1	25-MAR-96	03-APR-96		72			UG/KG	
2-Fluorophenol	30.2	1	25-MAR-96	03-APR-96		76			UG/KG	
2,4,6-Tribromophenol	30.2	1	25-MAR-96	03-APR-96		63			UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027835-02/150S:125E
Lab Sample ID : 10632-017

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.2	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.2	1	25-MAR-96	03-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.2	1	25-MAR-96	03-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.2	1	25-MAR-96	03-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.2	1	25-MAR-96	03-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.2	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.2	1	25-MAR-96	03-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.2	1	25-MAR-96	03-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.2	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.2	1	25-MAR-96	03-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.2	1	25-MAR-96	03-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.2	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
Isophorone	30.2	1	25-MAR-96	03-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.2	1	25-MAR-96	03-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.2	1	25-MAR-96	03-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.2	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.2	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.2	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30.2	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.2	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.2	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.2	1	25-MAR-96	03-APR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027835-02/150S:125E
Lab Sample ID : 10632-017

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.2	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.2	1	25-MAR-96	03-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.2	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.2	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.2	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.2	1	25-MAR-96	03-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.2	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.2	1	25-MAR-96	03-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.2	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.2	1	25-MAR-96	03-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.2	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.2	1	25-MAR-96	03-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.2	1	25-MAR-96	03-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.2	1	25-MAR-96	03-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.2	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
Fluorene	30.2	1	25-MAR-96	03-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.2	1	25-MAR-96	03-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.2	1	25-MAR-96	03-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.2	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027835-02/150S:125E
Lab Sample ID : 10632-017

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.2	1	25-MAR-96	03-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.2	1	25-MAR-96	03-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.2	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Anthracene	30.2	1	25-MAR-96	03-APR-96	37	ND	U	330	UG/KG	
Carbazole	30.2	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.2	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.2	1	25-MAR-96	03-APR-96	38	ND	U	330	UG/KG	
Pyrene	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.2	1	25-MAR-96	03-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.2	1	25-MAR-96	03-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.2	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
Chrysene	30.2	1	25-MAR-96	03-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.2	1	25-MAR-96	03-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.2	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.2	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.2	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.2	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.2	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.2	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.2	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.2	1	25-MAR-96	03-APR-96		36			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027835-02/150S:125E
Lab Sample ID : 10632-017

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.2	1	25-MAR-96	03-APR-96		38			UG/KG	
Terphenyl-d14	30.2	1	25-MAR-96	03-APR-96		36			UG/KG	
Phenol-d5	30.2	1	25-MAR-96	03-APR-96		76			UG/KG	
2-Fluorophenol	30.2	1	25-MAR-96	03-APR-96		79			UG/KG	
2,4,6-Tribromophenol	30.2	1	25-MAR-96	03-APR-96		64			UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027836-02/200S:125E
Lab Sample ID : 10632-018

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.2	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.2	1	25-MAR-96	03-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.2	1	25-MAR-96	03-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.2	1	25-MAR-96	03-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.2	1	25-MAR-96	03-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.2	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.2	1	25-MAR-96	03-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.2	1	25-MAR-96	03-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.2	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.2	1	25-MAR-96	03-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.2	1	25-MAR-96	03-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.2	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
Isophorone	30.2	1	25-MAR-96	03-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.2	1	25-MAR-96	03-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.2	1	25-MAR-96	03-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.2	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.2	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.2	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30.2	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.2	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.2	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.2	1	25-MAR-96	03-APR-96	30	ND	U	330	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027836-02/200S:125E
Lab Sample ID : 10632-018

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.2	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.2	1	25-MAR-96	03-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.2	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.2	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.2	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.2	1	25-MAR-96	03-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.2	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.2	1	25-MAR-96	03-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.2	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.2	1	25-MAR-96	03-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.2	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.2	1	25-MAR-96	03-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.2	1	25-MAR-96	03-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.2	1	25-MAR-96	03-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.2	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
Fluorene	30.2	1	25-MAR-96	03-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.2	1	25-MAR-96	03-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.2	1	25-MAR-96	03-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.2	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027836-02/200S:125E
Lab Sample ID : 10632-018

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.2	1	25-MAR-96	03-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.2	1	25-MAR-96	03-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.2	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Anthracene	30.2	1	25-MAR-96	03-APR-96	37	ND	U	330	UG/KG	
Carbazole	30.2	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.2	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.2	1	25-MAR-96	03-APR-96	38	ND	U	330	UG/KG	
Pyrene	30.2	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.2	1	25-MAR-96	03-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.2	1	25-MAR-96	03-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.2	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
Chrysene	30.2	1	25-MAR-96	03-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.2	1	25-MAR-96	03-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.2	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.2	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.2	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.2	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.2	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.2	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.2	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.2	1	25-MAR-96	03-APR-96		35			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027836-02/200S:125E
Lab Sample ID : 10632-018

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.2	1	25-MAR-96	03-APR-96		35			UG/KG	
Terphenyl-d14	30.2	1	25-MAR-96	03-APR-96		34			UG/KG	
Phenol-d5	30.2	1	25-MAR-96	03-APR-96		72			UG/KG	
2-Fluorophenol	30.2	1	25-MAR-96	03-APR-96		76			UG/KG	
2,4,6-Tribromophenol	30.2	1	25-MAR-96	03-APR-96		58			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027837-02/50S:50E
Lab Sample ID : 10632-019

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30	1	25-MAR-96	03-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30	1	25-MAR-96	03-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30	1	25-MAR-96	03-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30	1	25-MAR-96	03-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30	1	25-MAR-96	03-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30	1	25-MAR-96	03-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30	1	25-MAR-96	03-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30	1	25-MAR-96	03-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
Isophorone	30	1	25-MAR-96	03-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30	1	25-MAR-96	03-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30	1	25-MAR-96	03-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30	1	25-MAR-96	03-APR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027837-02/50S:50E
Lab Sample ID : 10632-019

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30	1	25-MAR-96	03-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30	1	25-MAR-96	03-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30	1	25-MAR-96	03-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30	1	25-MAR-96	03-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30	1	25-MAR-96	03-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30	1	25-MAR-96	03-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30	1	25-MAR-96	03-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
Fluorene	30	1	25-MAR-96	03-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30	1	25-MAR-96	03-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30	1	25-MAR-96	03-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027837-02/50S:50E
Lab Sample ID : 10632-019

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30	1	25-MAR-96	03-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30	1	25-MAR-96	03-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Anthracene	30	1	25-MAR-96	03-APR-96	37	ND	U	330	UG/KG	
Carbazole	30	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30	1	25-MAR-96	03-APR-96	38	ND	U	330	UG/KG	
Pyrene	30	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30	1	25-MAR-96	03-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30	1	25-MAR-96	03-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
Chrysene	30	1	25-MAR-96	03-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30	1	25-MAR-96	03-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30	1	25-MAR-96	03-APR-96		38			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027837-02/50S:50E
Lab Sample ID : 10632-019

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30	1	25-MAR-96	03-APR-96		36			UG/KG	
Terphenyl-d14	30	1	25-MAR-96	03-APR-96		36			UG/KG	
Phenol-d5	30	1	25-MAR-96	03-APR-96		77			UG/KG	
2-Fluorophenol	30	1	25-MAR-96	03-APR-96		80			UG/KG	
2,4,6-Tribromophenol	30	1	25-MAR-96	03-APR-96		58			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027838-02/100S:50E
Lab Sample ID : 10632-020

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.1	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.1	1	25-MAR-96	03-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.1	1	25-MAR-96	03-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.1	1	25-MAR-96	03-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.1	1	25-MAR-96	03-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.1	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.1	1	25-MAR-96	03-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.1	1	25-MAR-96	03-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.1	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.1	1	25-MAR-96	03-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.1	1	25-MAR-96	03-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.1	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
Isophorone	30.1	1	25-MAR-96	03-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.1	1	25-MAR-96	03-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.1	1	25-MAR-96	03-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.1	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.1	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.1	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30.1	1	25-MAR-96	03-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.1	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.1	1	25-MAR-96	03-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.1	1	25-MAR-96	03-APR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027838-02/100S:50E
Lab Sample ID : 10632-020

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.1	1	25-MAR-96	03-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.1	1	25-MAR-96	03-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.1	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.1	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.1	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.1	1	25-MAR-96	03-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.1	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.1	1	25-MAR-96	03-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.1	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.1	1	25-MAR-96	03-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.1	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.1	1	25-MAR-96	03-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.1	1	25-MAR-96	03-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.1	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.1	1	25-MAR-96	03-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.1	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.1	1	25-MAR-96	03-APR-96	34	ND	U	330	UG/KG	
Fluorene	30.1	1	25-MAR-96	03-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.1	1	25-MAR-96	03-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.1	1	25-MAR-96	03-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.1	1	25-MAR-96	03-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.1	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027838-02/100S:50E
Lab Sample ID : 10632-020

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.1	1	25-MAR-96	03-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.1	1	25-MAR-96	03-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.1	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Anthracene	30.1	1	25-MAR-96	03-APR-96	37	ND	U	330	UG/KG	
Carbazole	30.1	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.1	1	25-MAR-96	03-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.1	1	25-MAR-96	03-APR-96	38	ND	U	330	UG/KG	
Pyrene	30.1	1	25-MAR-96	03-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.1	1	25-MAR-96	03-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.1	1	25-MAR-96	03-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.1	1	25-MAR-96	03-APR-96	32	ND	U	330	UG/KG	
Chrysene	30.1	1	25-MAR-96	03-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.1	1	25-MAR-96	03-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.1	1	25-MAR-96	03-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.1	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.1	1	25-MAR-96	03-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.1	1	25-MAR-96	03-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.1	1	25-MAR-96	03-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.1	1	25-MAR-96	03-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.1	1	25-MAR-96	03-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.1	1	25-MAR-96	03-APR-96		36			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027838-02/100S:50E
Lab Sample ID : 10632-020

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.1	1	25-MAR-96	03-APR-96		38			UG/KG	
Terphenyl-d14	30.1	1	25-MAR-96	03-APR-96		36			UG/KG	
Phenol-d5	30.1	1	25-MAR-96	03-APR-96		77			UG/KG	
2-Fluorophenol	30.1	1	25-MAR-96	03-APR-96		80			UG/KG	
2,4,6-Tribromophenol	30.1	1	25-MAR-96	03-APR-96		63			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027839-02/150S:50E
Lab Sample ID : 10632-021

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.3	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.3	1	25-MAR-96	02-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.3	1	25-MAR-96	02-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.3	1	25-MAR-96	02-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.3	1	25-MAR-96	02-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.3	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.3	1	25-MAR-96	02-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.3	1	25-MAR-96	02-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.3	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.3	1	25-MAR-96	02-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.3	1	25-MAR-96	02-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.3	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
Isophorone	30.3	1	25-MAR-96	02-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.3	1	25-MAR-96	02-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.3	1	25-MAR-96	02-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.3	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.3	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.3	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30.3	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.3	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.3	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.3	1	25-MAR-96	02-APR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027839-02/150S:50E
Lab Sample ID : 10632-021

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.3	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.3	1	25-MAR-96	02-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.3	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.3	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.3	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.3	1	25-MAR-96	02-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.3	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.3	1	25-MAR-96	02-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.3	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.3	1	25-MAR-96	02-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.3	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.3	1	25-MAR-96	02-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.3	1	25-MAR-96	02-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.3	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.3	1	25-MAR-96	02-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.3	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.3	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
Fluorene	30.3	1	25-MAR-96	02-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.3	1	25-MAR-96	02-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.3	1	25-MAR-96	02-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.3	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.3	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027839-02/150S:50E
Lab Sample ID : 10632-021

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.3	1	25-MAR-96	02-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.3	1	25-MAR-96	02-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.3	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Anthracene	30.3	1	25-MAR-96	02-APR-96	37	ND	U	330	UG/KG	
Carbazole	30.3	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.3	1	25-MAR-96	02-APR-96	36	140	J	330	UG/KG	
Fluoranthene	30.3	1	25-MAR-96	02-APR-96	38	ND	U	330	UG/KG	
Pyrene	30.3	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.3	1	25-MAR-96	02-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.3	1	25-MAR-96	02-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.3	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
Chrysene	30.3	1	25-MAR-96	02-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.3	1	25-MAR-96	02-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.3	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.3	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.3	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.3	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.3	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.3	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.3	1	25-MAR-96	02-APR-96	39	ND	U	330	UG/KG	
Nitrobenzene-d5	30.3	1	25-MAR-96	02-APR-96		32			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027839-02/150S:50E
Lab Sample ID : 10632-021

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.3	1	25-MAR-96	02-APR-96		30			UG/KG	
Terphenyl-d14	30.3	1	25-MAR-96	02-APR-96		32			UG/KG	
Phenol-d5	30.3	1	25-MAR-96	02-APR-96		56			UG/KG	
2-Fluorophenol	30.3	1	25-MAR-96	02-APR-96		50			UG/KG	
2,4,6-Tribromophenol	30.3	1	25-MAR-96	02-APR-96		40			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027840-02/150S:50E
Lab Sample ID : 10632-022

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.2	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.2	1	25-MAR-96	02-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.2	1	25-MAR-96	02-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.2	1	25-MAR-96	02-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.2	1	25-MAR-96	02-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.2	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.2	1	25-MAR-96	02-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.2	1	25-MAR-96	02-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.2	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.2	1	25-MAR-96	02-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.2	1	25-MAR-96	02-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.2	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
Isophorone	30.2	1	25-MAR-96	02-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.2	1	25-MAR-96	02-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.2	1	25-MAR-96	02-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.2	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.2	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.2	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30.2	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.2	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.2	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.2	1	25-MAR-96	02-APR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027840-02/150S:50E
Lab Sample ID : 10632-022

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.2	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.2	1	25-MAR-96	02-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.2	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.2	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.2	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.2	1	25-MAR-96	02-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.2	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.2	1	25-MAR-96	02-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.2	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.2	1	25-MAR-96	02-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.2	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.2	1	25-MAR-96	02-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.2	1	25-MAR-96	02-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.2	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.2	1	25-MAR-96	02-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.2	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.2	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
Fluorene	30.2	1	25-MAR-96	02-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.2	1	25-MAR-96	02-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.2	1	25-MAR-96	02-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.2	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.2	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027840-02/150S:50E
Lab Sample ID : 10632-022

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.2	1	25-MAR-96	02-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.2	1	25-MAR-96	02-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.2	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Anthracene	30.2	1	25-MAR-96	02-APR-96	37	ND	U	330	UG/KG	
Carbazole	30.2	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.2	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.2	1	25-MAR-96	02-APR-96	38	ND	U	330	UG/KG	
Pyrene	30.2	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.2	1	25-MAR-96	02-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.2	1	25-MAR-96	02-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.2	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
Chrysene	30.2	1	25-MAR-96	02-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.2	1	25-MAR-96	02-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.2	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.2	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.2	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.2	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.2	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.2	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.2	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.2	1	25-MAR-96	02-APR-96		36			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027840-02/150S:50E
Lab Sample ID : 10632-022

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.2	1	25-MAR-96	02-APR-96		32			UG/KG	
Terphenyl-d14	30.2	1	25-MAR-96	02-APR-96		36			UG/KG	
Phenol-d5	30.2	1	25-MAR-96	02-APR-96		60			UG/KG	
2-Fluorophenol	30.2	1	25-MAR-96	02-APR-96		52			UG/KG	
2,4,6-Tribromophenol	30.2	1	25-MAR-96	02-APR-96		44			UG/KG	

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P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027841-02/200S:50E
Lab Sample ID : 10632-023

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30.1	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30.1	1	25-MAR-96	02-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30.1	1	25-MAR-96	02-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30.1	1	25-MAR-96	02-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30.1	1	25-MAR-96	02-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30.1	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30.1	1	25-MAR-96	02-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30.1	1	25-MAR-96	02-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30.1	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30.1	1	25-MAR-96	02-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30.1	1	25-MAR-96	02-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30.1	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
Isophorone	30.1	1	25-MAR-96	02-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30.1	1	25-MAR-96	02-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30.1	1	25-MAR-96	02-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30.1	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30.1	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30.1	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30.1	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30.1	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30.1	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30.1	1	25-MAR-96	02-APR-96	30	ND	U	330	UG/KG	

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P.O. Box 5130
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Client Sample ID : 027841-02/200S:50E
Lab Sample ID : 10632-023

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30.1	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30.1	1	25-MAR-96	02-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30.1	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30.1	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30.1	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30.1	1	25-MAR-96	02-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30.1	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30.1	1	25-MAR-96	02-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30.1	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30.1	1	25-MAR-96	02-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30.1	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30.1	1	25-MAR-96	02-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30.1	1	25-MAR-96	02-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30.1	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30.1	1	25-MAR-96	02-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30.1	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30.1	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
Fluorene	30.1	1	25-MAR-96	02-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30.1	1	25-MAR-96	02-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30.1	1	25-MAR-96	02-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30.1	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30.1	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027841-02/200S:50E
Lab Sample ID : 10632-023

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30.1	1	25-MAR-96	02-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30.1	1	25-MAR-96	02-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30.1	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Anthracene	30.1	1	25-MAR-96	02-APR-96	37	ND	U	330	UG/KG	
Carbazole	30.1	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30.1	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30.1	1	25-MAR-96	02-APR-96	38	ND	U	330	UG/KG	
Pyrene	30.1	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30.1	1	25-MAR-96	02-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30.1	1	25-MAR-96	02-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30.1	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
Chrysene	30.1	1	25-MAR-96	02-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30.1	1	25-MAR-96	02-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30.1	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30.1	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30.1	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30.1	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30.1	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30.1	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30.1	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30.1	1	25-MAR-96	02-APR-96		36			UG/KG	

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P.O. Box 5130
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Client Sample ID : 027841-02/200S:50E
Lab Sample ID : 10632-023

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30.1	1	25-MAR-96	02-APR-96		32			UG/KG	
Terphenyl-d14	30.1	1	25-MAR-96	02-APR-96		36			UG/KG	
Phenol-d5	30.1	1	25-MAR-96	02-APR-96		58			UG/KG	
2-Fluorophenol	30.1	1	25-MAR-96	02-APR-96		52			UG/KG	
2,4,6-Tribromophenol	30.1	1	25-MAR-96	02-APR-96		44			UG/KG	

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P.O. Box 5130
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Client Sample ID : 027853-01/EQUIPMENT BLANK
Lab Sample ID : 10632-025

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA 8270

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94871

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	1000	1	25-MAR-96	02-APR-96	1	ND	U	10	UG/L	
bis(2-Chloroethyl)Ether	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2-Chlorophenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
1,3-Dichlorobenzene	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
1,4-Dichlorobenzene	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
1,2-Dichlorobenzene	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
2-Methylphenol	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
bis(2-Chloroisopropyl)Ether	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
4-Methylphenol	1000	1	25-MAR-96	02-APR-96	2	ND	U	10	UG/L	
N-nitroso-di-n-propylamine	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
Hexachloroethane	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
Nitrobenzene	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
Isophorone	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2-Nitrophenol	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
2,4-Dimethylphenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
bis(2-Chloroethoxy)Methane	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2,4-Dichlorophenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
1,2,4-Trichlorobenzene	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
Naphthalene	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
4-Chloroaniline	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Hexachlorobutadiene	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
4-Chloro-3-Methylphenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027853-01/EQUIPMENT BLANK
Lab Sample ID : 10632-025

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA 8270

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94871

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
Hexachlorocyclopentadiene	1000	1	25-MAR-96	02-APR-96	1	ND	U	50	UG/L	
2,4,6-Trichlorophenol	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
2,4,5-Trichlorophenol	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
2-Chloronaphthalene	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2-Nitroaniline	1000	1	25-MAR-96	02-APR-96	4	ND	U	50	UG/L	
DimethylPhthalate	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
Acenaphthylene	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2,6-Dinitrotoluene	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
3-Nitroaniline	1000	1	25-MAR-96	02-APR-96	3	ND	U	50	UG/L	
Acenaphthene	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2,4-Dinitrophenol	1000	1	25-MAR-96	02-APR-96	5	ND	U	50	UG/L	
4-Nitrophenol	1000	1	25-MAR-96	02-APR-96	12	ND	U	50	UG/L	
Dibenzofuran	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2,4-Dinitrotoluene	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
Diethylphthalate	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
4-Chlorophenyl-PhenylEther	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
Fluorene	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
4-Nitroaniline	1000	1	25-MAR-96	02-APR-96	3	ND	U	50	UG/L	
4,6-Dinitro-2-Methylphenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	50	UG/L	
n-Nitrosodiphenylamine	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
4-Bromophenyl-Phenyl Ether	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	

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P.O. Box 5130
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Client Sample ID : 027853-01/EQUIPMENT BLANK
Lab Sample ID : 10632-025

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA 8270

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94871

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Pentachlorophenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	50	UG/L	
Phenanthrene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Anthracene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Carbazole	1000	1	25-MAR-96	02-APR-96	2	ND	U	10	UG/L	
Di-N-Butylphthalate	1000	1	25-MAR-96	02-APR-96	4	7	BJ	10	UG/L	
Fluoranthene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Pyrene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
ButylBenzylPhthalate	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
3,3'-Dichlorobenzidine	1000	1	25-MAR-96	02-APR-96	3	ND	U	50	UG/L	
Benzo(a)Anthracene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Chrysene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
bis(2-Ethylhexyl)Phthalate	1000	1	25-MAR-96	02-APR-96	9	ND	U	10	UG/L	
di-N-OctylPhthalate	1000	1	25-MAR-96	02-APR-96	8	ND	U	10	UG/L	
Benzo(b)Fluoranthene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Benzo(k)Fluoranthene	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
Benzo(a)Pyrene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Indeno(1,2,3-CD)Pyrene	1000	1	25-MAR-96	02-APR-96	9	ND	U	10	UG/L	
Dibenz(a,h)Anthracene	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
Benzo(g,h,i)Perylene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Nitrobenzene-d5	1000	1	25-MAR-96	02-APR-96		34			UG/L	

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Client Sample ID : 027853-01/EQUIPMENT BLANK
Lab Sample ID : 10632-025

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA 8270

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94871

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	1000	1	25-MAR-96	02-APR-96		32			UG/L	
Terphenyl-d14	1000	1	25-MAR-96	02-APR-96		32			UG/L	
Phenol-d5	1000	1	25-MAR-96	02-APR-96		20			UG/L	
2-Fluorophenol	1000	1	25-MAR-96	02-APR-96		30			UG/L	
2,4,6-Tribromophenol	1000	1	25-MAR-96	02-APR-96		44			UG/L	

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P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94871-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA 8270

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94871

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	1000	1	25-MAR-96	02-APR-96	1	ND	U	10	UG/L	
bis(2-Chloroethyl)Ether	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2-Chlorophenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
1,3-Dichlorobenzene	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
1,4-Dichlorobenzene	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
1,2-Dichlorobenzene	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
2-Methylphenol	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
bis(2-Chloroisopropyl)Ether	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
4-Methylphenol	1000	1	25-MAR-96	02-APR-96	2	ND	U	10	UG/L	
N-nitroso-di-n-propylamine	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
Hexachloroethane	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
Nitrobenzene	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
Isophorone	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2-Nitrophenol	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
2,4-Dimethylphenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
bis(2-Chloroethoxy)Methane	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2,4-Dichlorophenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
1,2,4-Trichlorobenzene	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
Naphthalene	1000	1	25-MAR-96	02-APR-96	6	ND	U	10	UG/L	
4-Chloroaniline	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Hexachlorobutadiene	1000	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
4-Chloro-3-Methylphenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94871-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA 8270

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94871

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
Hexachlorocyclopentadiene	30	1	25-MAR-96	02-APR-96	1	ND	U	50	UG/L	
2,4,6-Trichlorophenol	30	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
2,4,5-Trichlorophenol	30	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
2-Chloronaphthalene	30	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2-Nitroaniline	30	1	25-MAR-96	02-APR-96	4	ND	U	50	UG/L	
DimethylPhthalate	30	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
Acenaphthylene	30	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2,6-Dinitrotoluene	30	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
3-Nitroaniline	30	1	25-MAR-96	02-APR-96	3	ND	U	50	UG/L	
Acenaphthene	30	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2,4-Dinitrophenol	30	1	25-MAR-96	02-APR-96	5	ND	U	50	UG/L	
4-Nitrophenol	30	1	25-MAR-96	02-APR-96	12	ND	U	50	UG/L	
Dibenzofuran	30	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
2,4-Dinitrotoluene	30	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
Diethylphthalate	30	1	25-MAR-96	02-APR-96	5	ND	U	10	UG/L	
4-Chlorophenyl-PhenylEther	30	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
Fluorene	30	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
4-Nitroaniline	30	1	25-MAR-96	02-APR-96	3	ND	U	50	UG/L	
4,6-Dinitro-2-Methylphenol	30	1	25-MAR-96	02-APR-96	4	ND	U	50	UG/L	
n-Nitrosodiphenylamine	30	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
4-Bromophenyl-Phenyl Ether	30	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94871-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA 8270

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94871

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Pentachlorophenol	1000	1	25-MAR-96	02-APR-96	4	ND	U	50	UG/L	
Phenanthrene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Anthracene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Carbazole	1000	1	25-MAR-96	02-APR-96	2	ND	U	10	UG/L	
Di-N-Butylphthalate	1000	1	25-MAR-96	02-APR-96	4	5	J	10	UG/L	
Fluoranthene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Pyrene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
ButylBenzylPhthalate	1000	1	25-MAR-96	02-APR-96	4	1	J	10	UG/L	
3,3'-Dichlorobenzidine	1000	1	25-MAR-96	02-APR-96	3	ND	U	50	UG/L	
Benzo(a)Anthracene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Chrysene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
bis(2-Ethylhexyl)Phthalate	1000	1	25-MAR-96	02-APR-96	9	ND	U	10	UG/L	
di-N-OctylPhthalate	1000	1	25-MAR-96	02-APR-96	8	ND	U	10	UG/L	
Benzo(b)Fluoranthene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Benzo(k)Fluoranthene	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
Benzo(a)Pyrene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Indeno(1,2,3-CD)Pyrene	1000	1	25-MAR-96	02-APR-96	9	ND	U	10	UG/L	
Dibenz(a,h)Anthracene	1000	1	25-MAR-96	02-APR-96	4	ND	U	10	UG/L	
Benzo(g,h,i)Perylene	1000	1	25-MAR-96	02-APR-96	3	ND	U	10	UG/L	
Nitrobenzene-d5	1000	1	25-MAR-96	02-APR-96		26			UG/L	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94871-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA 8270

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94871

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	1000	1	25-MAR-96	02-APR-96		30			UG/L	
Terphenyl-d14	1000	1	25-MAR-96	02-APR-96		30			UG/L	
Phenol-d5	1000	1	25-MAR-96	02-APR-96		36			UG/L	
2-Fluorophenol	1000	1	25-MAR-96	02-APR-96		42			UG/L	
2,4,6-Tribromophenol	1000	1	25-MAR-96	02-APR-96		42			UG/L	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94872-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Phenol	30	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
bis(2-Chloroethyl)Ether	30	1	25-MAR-96	02-APR-96	89	ND	U	330	UG/KG	
2-Chlorophenol	30	1	25-MAR-96	02-APR-96	67	ND	U	330	UG/KG	
1,3-Dichlorobenzene	30	1	25-MAR-96	02-APR-96	84	ND	U	330	UG/KG	
1,4-Dichlorobenzene	30	1	25-MAR-96	02-APR-96	78	ND	U	330	UG/KG	
1,2-Dichlorobenzene	30	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
2-Methylphenol	30	1	25-MAR-96	02-APR-96	55	ND	U	330	UG/KG	
bis(2-Chloroisopropyl)Ether	30	1	25-MAR-96	02-APR-96	96	ND	U	330	UG/KG	
4-Methylphenol	30	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
N-nitroso-di-n-propylamine	30	1	25-MAR-96	02-APR-96	58	ND	U	330	UG/KG	
Hexachloroethane	30	1	25-MAR-96	02-APR-96	90	ND	U	330	UG/KG	
Nitrobenzene	30	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
Isophorone	30	1	25-MAR-96	02-APR-96	54	ND	U	330	UG/KG	
2-Nitrophenol	30	1	25-MAR-96	02-APR-96	75	ND	U	330	UG/KG	
2,4-Dimethylphenol	30	1	25-MAR-96	02-APR-96	82	ND	U	330	UG/KG	
bis(2-Chloroethoxy)Methane	30	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
2,4-Dichlorophenol	30	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
1,2,4-Trichlorobenzene	30	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
Naphthalene	30	1	25-MAR-96	02-APR-96	81	ND	U	330	UG/KG	
4-Chloroaniline	30	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Hexachlorobutadiene	30	1	25-MAR-96	02-APR-96	86	ND	U	330	UG/KG	
4-Chloro-3-Methylphenol	30	1	25-MAR-96	02-APR-96	30	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94872-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Methylnaphthalene	30	1	25-MAR-96	02-APR-96	63	ND	U	330	UG/KG	
Hexachlorocyclopentadiene	30	1	25-MAR-96	02-APR-96	130	ND	U	1600	UG/KG	
2,4,6-Trichlorophenol	30	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
2,4,5-Trichlorophenol	30	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
2-Chloronaphthalene	30	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
2-Nitroaniline	30	1	25-MAR-96	02-APR-96	46	ND	U	1600	UG/KG	
DimethylPhthalate	30	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Acenaphthylene	30	1	25-MAR-96	02-APR-96	45	ND	U	330	UG/KG	
2,6-Dinitrotoluene	30	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
3-Nitroaniline	30	1	25-MAR-96	02-APR-96	36	ND	U	1600	UG/KG	
Acenaphthene	30	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
2,4-Dinitrophenol	30	1	25-MAR-96	02-APR-96	67	ND	U	1600	UG/KG	
4-Nitrophenol	30	1	25-MAR-96	02-APR-96	400	ND	U	1600	UG/KG	
Dibenzofuran	30	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
2,4-Dinitrotoluene	30	1	25-MAR-96	02-APR-96	48	ND	U	330	UG/KG	
Diethylphthalate	30	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
4-Chlorophenyl-PhenylEther	30	1	25-MAR-96	02-APR-96	34	ND	U	330	UG/KG	
Fluorene	30	1	25-MAR-96	02-APR-96	39	ND	U	330	UG/KG	
4-Nitroaniline	30	1	25-MAR-96	02-APR-96	52	ND	U	1600	UG/KG	
4,6-Dinitro-2-Methylphenol	30	1	25-MAR-96	02-APR-96	38	ND	U	1600	UG/KG	
n-Nitrosodiphenylamine	30	1	25-MAR-96	02-APR-96	40	ND	U	330	UG/KG	
4-Bromophenyl-Phenyl Ether	30	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94872-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Hexachlorobenzene	30	1	25-MAR-96	02-APR-96	47	ND	U	330	UG/KG	
Pentachlorophenol	30	1	25-MAR-96	02-APR-96	44	ND	U	1600	UG/KG	
Phenanthrene	30	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Anthracene	30	1	25-MAR-96	02-APR-96	37	ND	U	330	UG/KG	
Carbazole	30	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Di-N-Butylphthalate	30	1	25-MAR-96	02-APR-96	36	ND	U	330	UG/KG	
Fluoranthene	30	1	25-MAR-96	02-APR-96	38	ND	U	330	UG/KG	
Pyrene	30	1	25-MAR-96	02-APR-96	33	ND	U	330	UG/KG	
ButylBenzylPhthalate	30	1	25-MAR-96	02-APR-96	42	ND	U	330	UG/KG	
3,3'-Dichlorobenzidine	30	1	25-MAR-96	02-APR-96	56	ND	U	1600	UG/KG	
Benzo(a)Anthracene	30	1	25-MAR-96	02-APR-96	32	ND	U	330	UG/KG	
Chrysene	30	1	25-MAR-96	02-APR-96	35	ND	U	330	UG/KG	
bis(2-Ethylhexyl)Phthalate	30	1	25-MAR-96	02-APR-96	57	ND	U	330	UG/KG	
di-N-OctylPhthalate	30	1	25-MAR-96	02-APR-96	52	ND	U	330	UG/KG	
Benzo(b)Fluoranthene	30	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Benzo(k)Fluoranthene	30	1	25-MAR-96	02-APR-96	50	ND	U	330	UG/KG	
Benzo(a)Pyrene	30	1	25-MAR-96	02-APR-96	44	ND	U	330	UG/KG	
Indeno(1,2,3-CD)Pyrene	30	1	25-MAR-96	02-APR-96	43	ND	U	330	UG/KG	
Dibenz(a,h)Anthracene	30	1	25-MAR-96	02-APR-96	41	ND	U	330	UG/KG	
Benzo(g,h,i)Perylene	30	1	25-MAR-96	02-APR-96	49	ND	U	330	UG/KG	
Nitrobenzene-d5	30	1	25-MAR-96	02-APR-96		40			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94872-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
2-Fluorobiphenyl	30	1	25-MAR-96	02-APR-96		38			UG/KG	
Terphenyl-d14	30	1	25-MAR-96	02-APR-96		38			UG/KG	
Phenol-d5	30	1	25-MAR-96	02-APR-96		81			UG/KG	
2-Fluorophenol	30	1	25-MAR-96	02-APR-96		89			UG/KG	
2,4,6-Tribromophenol	30	1	25-MAR-96	02-APR-96		69			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCSPK94871-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA 8270

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94871

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Phenol	1000	1	25-MAR-96	02-APR-96	75	26	UG/L	35	112	5	
2-Chlorophenol	1000	1	25-MAR-96	02-APR-96	75	55	UG/L	73	134	23	
1,4-Dichlorobenzene	1000	1	25-MAR-96	02-APR-96	50	32	UG/L	64	121	19	
N-nitroso-di-n-propylamine	1000	1	25-MAR-96	02-APR-96	50	39	UG/L	78	209	1	
1,2,4-Trichlorobenzene	1000	1	25-MAR-96	02-APR-96	50	31	UG/L	62	142	43	
4-Chloro-3-Methylphenol	1000	1	25-MAR-96	02-APR-96	75	60	UG/L	79	147	22	
Acenaphthene	1000	1	25-MAR-96	02-APR-96	50	39	UG/L	78	142	50	
4-Nitrophenol	1000	1	25-MAR-96	02-APR-96	75	21	UG/L	28	132	1	
2,4-Dinitrotoluene	1000	1	25-MAR-96	02-APR-96	50	38	UG/L	76	132	33	
Pentachlorophenol	1000	1	25-MAR-96	02-APR-96	75	46	UG/L	61	176	14	
Pyrene	1000	1	25-MAR-96	02-APR-96	50	35	UG/L	70	116	52	
Nitrobenzene-d5	1000	1	25-MAR-96	02-APR-96	50	33	UG/L	66	114	35	
2-Fluorobiphenyl	1000	1	25-MAR-96	02-APR-96	50	36	UG/L	73	116	43	
Terphenyl-d14	1000	1	25-MAR-96	02-APR-96	50	34	UG/L	69	141	33	
Phenol-d5	1000	1	25-MAR-96	02-APR-96	75	27	UG/L	36	94	10	
2-Fluorophenol	1000	1	25-MAR-96	02-APR-96	75	38	UG/L	51	100	21	
2,4,6-Tribromophenol	1000	1	25-MAR-96	02-APR-96	75	49	UG/L	65	123	10	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCSPK94871-2

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA 8270

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94871

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Phenol	1000	1	25-MAR-96	02-APR-96	75	22	UG/L	29	42	0	19
2-Chlorophenol	1000	1	25-MAR-96	02-APR-96	75	50	UG/L	66	40	0	10
1,4-Dichlorobenzene	1000	1	25-MAR-96	02-APR-96	50	32	UG/L	64	28	0	0
N-nitroso-di-n-propylamine	1000	1	25-MAR-96	02-APR-96	50	38	UG/L	76	38	0	2
1,2,4-Trichlorobenzene	1000	1	25-MAR-96	02-APR-96	50	30	UG/L	60	28	0	3
4-Chloro-3-Methylphenol	1000	1	25-MAR-96	02-APR-96	75	50	UG/L	66	42	0	18
Acenaphthene	1000	1	25-MAR-96	02-APR-96	50	38	UG/L	76	31	0	2
4-Nitrophenol	1000	1	25-MAR-96	02-APR-96	75	18	UG/L	24	50	0	15
2,4-Dinitrotoluene	1000	1	25-MAR-96	02-APR-96	50	35	UG/L	71	38	0	7
Pentachlorophenol	1000	1	25-MAR-96	02-APR-96	75	31	UG/L	42	50	0	37
Pyrene	1000	1	25-MAR-96	02-APR-96	50	34	UG/L	68	31	0	3
Nitrobenzene-d5	1000	1	25-MAR-96	02-APR-96	50	33	UG/L	66	114	35	
2-Fluorobiphenyl	1000	1	25-MAR-96	02-APR-96	50	34	UG/L	67	116	43	
Terphenyl-d14	1000	1	25-MAR-96	02-APR-96	50	32	UG/L	63	141	33	
Phenol-d5	1000	1	25-MAR-96	02-APR-96	75	22	UG/L	30	94	10	
2-Fluorophenol	1000	1	25-MAR-96	02-APR-96	75	33	UG/L	44	100	21	
2,4,6-Tribromophenol	1000	1	25-MAR-96	02-APR-96	75	44	UG/L	58	123	10	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCSPK94872-1

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Phenol	30	1	25-MAR-96	02-APR-96	2500	1800	UG/KG	70	112	5	
2-Chlorophenol	30	1	25-MAR-96	02-APR-96	2500	2100	UG/KG	83	134	23	
1,4-Dichlorobenzene	30	1	25-MAR-96	02-APR-96	1700	1300	UG/KG	78	121	19	
N-nitroso-di-n-propylamine	30	1	25-MAR-96	02-APR-96	1700	1000	UG/KG	62	209	1	
1,2,4-Trichlorobenzene	30	1	25-MAR-96	02-APR-96	1700	1400	UG/KG	82	142	43	
4-Chloro-3-Methylphenol	30	1	25-MAR-96	02-APR-96	2500	2000	UG/KG	82	147	22	
Acenaphthene	30	1	25-MAR-96	02-APR-96	1700	1400	UG/KG	82	142	50	
4-Nitrophenol	30	1	25-MAR-96	02-APR-96	2500	1800	UG/KG	73	132	1	
2,4-Dinitrotoluene	30	1	25-MAR-96	02-APR-96	1700	1200	UG/KG	73	132	33	
Pentachlorophenol	30	1	25-MAR-96	02-APR-96	2500	1600	UG/KG	62	176	14	
Pyrene	30	1	25-MAR-96	02-APR-96	1700	1200	UG/KG	70	116	52	
Nitrobenzene-d5	30	1	25-MAR-96	02-APR-96	50	39	UG/KG	78	120	23	
2-Fluorobiphenyl	30	1	25-MAR-96	02-APR-96	50	38	UG/KG	75	115	30	
Terphenyl-d14	30	1	25-MAR-96	02-APR-96	50	36	UG/KG	72	137	18	
Phenol-d5	30	1	25-MAR-96	02-APR-96	75	74	UG/KG	98	113	24	
2-Fluorophenol	30	1	25-MAR-96	02-APR-96	75	76	UG/KG	102	121	25	
2,4,6-Tribromophenol	30	1	25-MAR-96	02-APR-96	75	66	UG/KG	88	122	19	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCSPK94872-2

Analyses Requested : Semivolatiles
Lab Method Code : EPA 8270
Digestion Method : EPA3550

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94872

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Phenol	30	1	25-MAR-96	02-APR-96	2500	1800	UG/KG	74	35	0	6
2-Chlorophenol	30	1	25-MAR-96	02-APR-96	2500	2100	UG/KG	85	50	0	2
1,4-Dichlorobenzene	30	1	25-MAR-96	02-APR-96	1700	1300	UG/KG	78	27	0	0
N-nitroso-di-n-propylamine	30	1	25-MAR-96	02-APR-96	1700	1100	UG/KG	66	38	0	6
1,2,4-Trichlorobenzene	30	1	25-MAR-96	02-APR-96	1700	1400	UG/KG	82	23	0	0
4-Chloro-3-Methylphenol	30	1	25-MAR-96	02-APR-96	2500	2000	UG/KG	82	33	0	0
Acenaphthene	30	1	25-MAR-96	02-APR-96	1700	1300	UG/KG	81	19	0	12
4-Nitrophenol	30	1	25-MAR-96	02-APR-96	2500	1900	UG/KG	77	50	0	5
2,4-Dinitrotoluene	30	1	25-MAR-96	02-APR-96	1700	1200	UG/KG	74	47	0	1
Pentachlorophenol	30	1	25-MAR-96	02-APR-96	2500	1600	UG/KG	64	47	0	3
Pyrene	30	1	25-MAR-96	02-APR-96	1700	1200	UG/KG	70	36	0	0
Nitrobenzene-d5	30	1	25-MAR-96	02-APR-96	50	37	UG/KG	74	120	23	
2-Fluorobiphenyl	30	1	25-MAR-96	02-APR-96	50	37	UG/KG	74	115	30	
Terphenyl-d14	30	1	25-MAR-96	02-APR-96	50	35	UG/KG	70	137	18	
Phenol-d5	30	1	25-MAR-96	02-APR-96	75	71	UG/KG	95	113	24	
2-Fluorophenol	30	1	25-MAR-96	02-APR-96	75	68	UG/KG	94	121	25	
2,4,6-Tribromophenol	30	1	25-MAR-96	02-APR-96	75	67	UG/KG	89	122	19	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027830-01/70S:180E
Lab Sample ID : 10632-001

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027830-01/70S:180E
Lab Sample ID : 10632-001

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027830-01/70S:180E
Lab Sample ID : 10632-001

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		48			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		50			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		49			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027831-01/120S:180E
Lab Sample ID : 10632-002

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027831-01/120S:180E
Lab Sample ID : 10632-002

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027831-01/120S:180E
Lab Sample ID : 10632-002

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		53			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		55			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		54			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027832-01/170S:180E
Lab Sample ID : 10632-003

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027832-01/170S:180E
Lab Sample ID : 10632-003

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027832-01/170S:180E
Lab Sample ID : 10632-003

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		49			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		48			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		52			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027833-01/50S:125E
Lab Sample ID : 10632-004

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027833-01/50S:125E
Lab Sample ID : 10632-004

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	2	J	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027833-01/50S:125E
Lab Sample ID : 10632-004

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		50			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		53			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		54			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027834-01/100S:125E
Lab Sample ID : 10632-005

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027834-01/100S:125E
Lab Sample ID : 10632-005

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027834-01/100S:125E
Lab Sample ID : 10632-005

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		47			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		56			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		50			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027835-01/150S:125E
Lab Sample ID : 10632-006

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027835-01/150S:125E
Lab Sample ID : 10632-006

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027835-01/150S:125E
Lab Sample ID : 10632-006

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		49			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		53			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		54			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027836-01/200S:125E
Lab Sample ID : 10632-007

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027836-01/200S:125E
Lab Sample ID : 10632-007

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027836-01/200S:125E
Lab Sample ID : 10632-007

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		50			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		54			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		56			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027837-01/50S:50E
Lab Sample ID : 10632-008

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027837-01/50S:50E
Lab Sample ID : 10632-008

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027837-01/50S:50E
Lab Sample ID : 10632-008

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		50			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		48			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		52			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027838-01/100S:50E
Lab Sample ID : 10632-009

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027838-01/100S:50E
Lab Sample ID : 10632-009

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027838-01/100S:50E
Lab Sample ID : 10632-009

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		50			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		48			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		52			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027839-01/150S:50E
Lab Sample ID : 10632-010

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027839-01/150S:50E
Lab Sample ID : 10632-010

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027839-01/150S:50E
Lab Sample ID : 10632-010

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		50			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		48			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		56			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027840-01/150S:50E
Lab Sample ID : 10632-011

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	5		5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	29		20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027840-01/150S:50E
Lab Sample ID : 10632-011

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
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Client Sample ID : 027840-01/150S:50E
Lab Sample ID : 10632-011

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		53			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		53			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		58			UG/KG	

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P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027841-01/200S:50E
Lab Sample ID : 10632-024

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	10		5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	180		20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

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P.O. Box 5130
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Client Sample ID : 027841-01/200S:50E
Lab Sample ID : 10632-024

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

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P.O. Box 5130
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Client Sample ID : 027841-01/200S:50E
Lab Sample ID : 10632-024

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		52			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		54			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		56			UG/KG	

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Supplier Services for AJ-2480B
P.O. Box 5130
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Client Sample ID : 027853-03/EQUIPMENT BLANK
Lab Sample ID : 10632-027

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
Chloromethane	5	1	25-MAR-96	25-MAR-96	3	ND	U	10	UG/L	
Bromomethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
Vinyl Chloride	5	1	25-MAR-96	25-MAR-96	3	ND	U	10	UG/L	
Chloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
Methylene Chloride	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Acetone	5	1	25-MAR-96	25-MAR-96	7	6	J	20	UG/L	
Trichlorofluoromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
1,1-Dichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1-Dichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
trans-1,2-Dichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	2	UG/L	
cis-1,2-Dichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	2	UG/L	
Chloroform	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2,2-Dichloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromochloromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1,1-Trichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2-Butanone	5	1	25-MAR-96	25-MAR-96	5	ND	U	20	UG/L	
Carbon Tetrachloride	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromodichloromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2-Dichloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Trichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1,2-Trichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027853-03/EQUIPMENT BLANK
Lab Sample ID : 10632-027

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	25-MAR-96	25-MAR-96	3	ND	U	5	UG/L	
1,2-Dichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Dibromomethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
trans-1,3-Dichloropropene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
cis-1,3-Dichloropropene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
4-Methyl-2-Pentanone	5	1	25-MAR-96	25-MAR-96	1	ND	U	20	UG/L	
1,2-Dibromoethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2-Hexanone	5	1	25-MAR-96	25-MAR-96	2	ND	U	20	UG/L	
Tetrachloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Dibromochloromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Toluene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Chlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
EthylBenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Styrene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromoform	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Xylene (total)	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Isopropylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1,2,2-Tetrachloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,3-Trichloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
n-Propylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2-Chlorotoluene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027853-03/EQUIPMENT BLANK
Lab Sample ID : 10632-027

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
4-Chlorotoluene	5	1	25-MAR-96	25-MAR-96	2	ND	U	5	UG/L	
tert-Butylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,4-Trimethylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
sec-Butylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,3-Dichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
4-Isopropyltoluene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,4-Dichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
n-Butylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2-Dichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2-Dibromo-3-chloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,4-Trichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Hexachlorobutadiene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Naphthalene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,3-Trichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Toluene-d8 (SURR)	5	1	25-MAR-96	25-MAR-96		54			UG/L	
Bromofluorobenzene (SURR)	5	1	25-MAR-96	25-MAR-96		50			UG/L	
1,2-Dichloroethane-d4 (SURR)	5	1	25-MAR-96	25-MAR-96		58			UG/L	

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027855-01/TRIP BLANK
Lab Sample ID : 10632-028

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
Chloromethane	5	1	25-MAR-96	25-MAR-96	3	ND	U	10	UG/L	
Bromomethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
Vinyl Chloride	5	1	25-MAR-96	25-MAR-96	3	ND	U	10	UG/L	
Chloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
Methylene Chloride	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Acetone	5	1	25-MAR-96	25-MAR-96	7	12	J	20	UG/L	
Trichlorofluoromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
1,1-Dichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1-Dichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
trans-1,2-Dichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	2	UG/L	
cis-1,2-Dichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	2	UG/L	
Chloroform	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2,2-Dichloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromochloromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1,1-Trichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2-Butanone	5	1	25-MAR-96	25-MAR-96	5	ND	U	20	UG/L	
Carbon Tetrachloride	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromodichloromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2-Dichloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Trichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1,2-Trichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027855-01/TRIP BLANK
Lab Sample ID : 10632-028

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	25-MAR-96	25-MAR-96	3	ND	U	5	UG/L	
1,2-Dichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Dibromomethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
trans-1,3-Dichloropropene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
cis-1,3-Dichloropropene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
4-Methyl-2-Pentanone	5	1	25-MAR-96	25-MAR-96	1	ND	U	20	UG/L	
1,2-Dibromoethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2-Hexanone	5	1	25-MAR-96	25-MAR-96	2	ND	U	20	UG/L	
Tetrachloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Dibromochloromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Toluene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Chlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
EthylBenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Styrene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromoform	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Xylene (total)	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Isopropylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1,2,2-Tetrachloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,3-Trichloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
n-Propylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2-Chlorotoluene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027855-01/TRIP BLANK
Lab Sample ID : 10632-028

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
4-Chlorotoluene	5	1	25-MAR-96	25-MAR-96	2	ND	U	5	UG/L	
tert-Butylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,4-Trimethylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
sec-Butylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,3-Dichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
4-Isopropyltoluene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,4-Dichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
n-Butylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2-Dichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2-Dibromo-3-chloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,4-Trichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Hexachlorobutadiene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Naphthalene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,3-Trichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Toluene-d8 (SURR)	5	1	25-MAR-96	25-MAR-96		52			UG/L	
Bromofluorobenzene (SURR)	5	1	25-MAR-96	25-MAR-96		50			UG/L	
1,2-Dichloroethane-d4 (SURR)	5	1	25-MAR-96	25-MAR-96		58			UG/L	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027854-01/TRIP BLANK
Lab Sample ID : 10632-029

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	8		5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	37		20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027854-01/TRIP BLANK
Lab Sample ID : 10632-029

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027854-01/TRIP BLANK
Lab Sample ID : 10632-029

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		50			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		50			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		56			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94992-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
Chloromethane	5	1	25-MAR-96	25-MAR-96	3	ND	U	10	UG/L	
Bromomethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
Vinyl Chloride	5	1	25-MAR-96	25-MAR-96	3	ND	U	10	UG/L	
Chloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
Methylene Chloride	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Acetone	5	1	25-MAR-96	25-MAR-96	7	ND	U	20	UG/L	
Trichlorofluoromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	10	UG/L	
1,1-Dichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1-Dichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
trans-1,2-Dichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	2	UG/L	
cis-1,2-Dichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	2	UG/L	
Chloroform	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2,2-Dichloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromochloromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1,1-Trichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2-Butanone	5	1	25-MAR-96	25-MAR-96	5	ND	U	20	UG/L	
Carbon Tetrachloride	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromodichloromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2-Dichloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Trichloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1,2-Trichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK94992-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	25-MAR-96	25-MAR-96	3	ND	U	5	UG/L	
1,2-Dichloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Dibromomethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
trans-1,3-Dichloropropene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
cis-1,3-Dichloropropene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
4-Methyl-2-Pentanone	5	1	25-MAR-96	25-MAR-96	1	ND	U	20	UG/L	
1,2-Dibromoethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2-Hexanone	5	1	25-MAR-96	25-MAR-96	2	ND	U	20	UG/L	
Tetrachloroethene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Dibromochloromethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Toluene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Chlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
EthylBenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Styrene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromoform	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Xylene (total)	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Isopropylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Bromobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,1,2,2-Tetrachloroethane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,3-Trichloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
n-Propylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
2-Chlorotoluene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	

Sandia National Labs
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P.O. Box 5130
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Client Sample ID : NA
Lab Sample ID : QCBLK94992-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
4-Chlorotoluene	5	1	25-MAR-96	25-MAR-96	2	ND	U	5	UG/L	
tert-Butylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,4-Trimethylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
sec-Butylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,3-Dichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
4-Isopropyltoluene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,4-Dichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
n-Butylbenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2-Dichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2-Dibromo-3-chloropropane	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,4-Trichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Hexachlorobutadiene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Naphthalene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
1,2,3-Trichlorobenzene	5	1	25-MAR-96	25-MAR-96	1	ND	U	5	UG/L	
Toluene-d8 (SURR)	5	1	25-MAR-96	25-MAR-96		50			UG/L	
Bromofluorobenzene (SURR)	5	1	25-MAR-96	25-MAR-96		51			UG/L	
1,2-Dichloroethane-d4 (SURR)	5	1	25-MAR-96	25-MAR-96		53			UG/L	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK95044-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Dichlorodifluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloromethane	5	1	26-MAR-96	26-MAR-96	2	ND	U	10	UG/KG	
Bromomethane	5	1	26-MAR-96	26-MAR-96	3	ND	U	10	UG/KG	
Vinyl Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
Chloroethane	5	1	26-MAR-96	26-MAR-96	6	ND	U	10	UG/KG	
Methylene Chloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Acetone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Trichlorofluoromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	10	UG/KG	
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
cis-1,2-Dichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	2	UG/KG	
Chloroform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,1-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Butanone	5	1	26-MAR-96	26-MAR-96	8	ND	U	20	UG/KG	
Carbon Tetrachloride	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromodichloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2-Trichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK95044-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
Benzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromomethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
trans-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
cis-1,3-Dichloropropene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Methyl-2-Pentanone	5	1	26-MAR-96	26-MAR-96	4	ND	U	20	UG/KG	
1,2-Dibromoethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Hexanone	5	1	26-MAR-96	26-MAR-96	7	ND	U	20	UG/KG	
Tetrachloroethene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Dibromochloromethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
EthylBenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Styrene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromoform	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Xylene (total)	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Isopropylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Bromobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,1,2,2-Tetrachloroethane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichloropropane	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Propylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
2-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK95044-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units	Retention Time
1,3,5-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Chlorotoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
tert-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,4-Trimethylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
sec-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,3-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
4-Isopropyltoluene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,4-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
n-Butylbenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2-Dibromo-3-chloropropane	5	1	26-MAR-96	26-MAR-96	3	ND	U	5	UG/KG	
1,2,4-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Hexachlorobutadiene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Naphthalene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
1,2,3-Trichlorobenzene	5	1	26-MAR-96	26-MAR-96	1	ND	U	5	UG/KG	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96		50			UG/KG	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96		49			UG/KG	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96		46			UG/KG	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94992-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	25-MAR-96	25-MAR-96	50	67	UG/L	134	234	1	
Trichloroethene	5	1	25-MAR-96	25-MAR-96	50	49	UG/L	99	157	71	
Benzene	5	1	25-MAR-96	25-MAR-96	50	53	UG/L	106	151	37	
Toluene	5	1	25-MAR-96	25-MAR-96	50	49	UG/L	98	150	47	
Chlorobenzene	5	1	25-MAR-96	25-MAR-96	50	47	UG/L	94	160	37	
Toluene-d8 (SURR)	5	1	25-MAR-96	25-MAR-96	50	48	UG/L	96	110	88	
Bromofluorobenzene (SURR)	5	1	25-MAR-96	25-MAR-96	50	48	UG/L	97	115	86	
1,2-Dichloroethane-d4 (SURR)	5	1	25-MAR-96	25-MAR-96	50	52	UG/L	103	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS94992-2

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : EPA 8260

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 94992

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	25-MAR-96	25-MAR-96	50	69	UG/L	138	14	0	3
Trichloroethene	5	1	25-MAR-96	25-MAR-96	50	51	UG/L	103	14	0	4
Benzene	5	1	25-MAR-96	25-MAR-96	50	54	UG/L	109	11	0	3
Toluene	5	1	25-MAR-96	25-MAR-96	50	51	UG/L	102	13	0	4
Chlorobenzene	5	1	25-MAR-96	25-MAR-96	50	49	UG/L	98	13	0	4
Toluene-d8 (SURR)	5	1	25-MAR-96	25-MAR-96	50	49	UG/L	98	110	88	
Bromofluorobenzene (SURR)	5	1	25-MAR-96	25-MAR-96	50	50	UG/L	100	115	86	
1,2-Dichloroethane-d4 (SURR)	5	1	25-MAR-96	25-MAR-96	50	54	UG/L	109	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS95044-1

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	50	91	UG/KG	182	234	1	
Trichloroethene	5	1	26-MAR-96	26-MAR-96	50	53	UG/KG	106	157	71	
Benzene	5	1	26-MAR-96	26-MAR-96	50	60	UG/KG	120	151	37	
Toluene	5	1	26-MAR-96	26-MAR-96	50	50	UG/KG	100	150	47	
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	50	51	UG/KG	103	160	37	
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96	50	50	UG/KG	100	117	81	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96	50	49	UG/KG	98	121	74	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96	50	50	UG/KG	101	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS95044-2

Analyses Requested : Volatiles 8260
Lab Method Code : EPA 8260
Digestion Method : SW8260

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95044

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
1,1-Dichloroethene	5	1	26-MAR-96	26-MAR-96	50	100	UG/KG	212	22	0	15
Trichloroethene	5	1	26-MAR-96	26-MAR-96	50	63	UG/KG	125	24	0	16
Benzene	5	1	26-MAR-96	26-MAR-96	50	65	UG/KG	131	21	0	9
Toluene	5	1	26-MAR-96	26-MAR-96	50	58	UG/KG	115	21	0	14
Chlorobenzene	5	1	26-MAR-96	26-MAR-96	50	58	UG/KG	117	21	0	13
Toluene-d8 (SURR)	5	1	26-MAR-96	26-MAR-96	50	52	UG/KG	104	117	81	
Bromofluorobenzene (SURR)	5	1	26-MAR-96	26-MAR-96	50	46	UG/KG	91	121	74	
1,2-Dichloroethane-d4 (SURR)	5	1	26-MAR-96	26-MAR-96	50	54	UG/KG	107	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027830-02/70S:180E
Lab Sample ID : 10632-012

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027831-02/120S:180E
Lab Sample ID : 10632-013

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027832-02/170S:180E
Lab Sample ID : 10632-014

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027833-02/50S:125E
Lab Sample ID : 10632-015

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027834-02/100S:125E
Lab Sample ID : 10632-016

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027835-02/150S:125E
Lab Sample ID : 10632-017

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027836-02/200S:125E
Lab Sample ID : 10632-018

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027837-02/50S:50E
Lab Sample ID : 10632-019

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027838-02/100S:50E
Lab Sample ID : 10632-020

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027839-02/150S:50E
Lab Sample ID : 10632-021

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027840-02/150S:50E
Lab Sample ID : 10632-022

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027841-02/200S:50E
Lab Sample ID : 10632-023

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027853-02/EQUIPMENT BLANK
Lab Sample ID : 10632-026

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95121

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	100	1	26-MAR-96	26-MAR-96	0.0001	ND	U	0.0002	MG/L

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS95120-1

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Mercury	.2	1	26-MAR-96	26-MAR-96	2.3	2.4	MG/KG	104	120	80	

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Client Sample ID : NA
Lab Sample ID : QCLCS95120-2

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Mercury	.2	1	26-MAR-96	26-MAR-96	2.3	2.4	MG/KG	104	20	0	0

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Client Sample ID : NA
Lab Sample ID : QCLCS95121-1

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95121

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Mercury	100	1	26-MAR-96	26-MAR-96	.005	0.0049	MG/L	97	120	80	

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Client Sample ID : NA
Lab Sample ID : QCLCS95121-2

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95121

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Mercury	100	1	26-MAR-96	26-MAR-96	.005	0.0048	MG/L	96	20	0	1.2

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Client Sample ID : NA
Lab Sample ID : QCBLK95120-1

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95120

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	.2	1	26-MAR-96	26-MAR-96	0.050	ND	U	0.10	MG/KG

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Client Sample ID : NA
Lab Sample ID : QCBLK95121-1

Analyses Requested : Mercury
Lab Method Code : EPA 7470
Digestion Method : EPA7470

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95121

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Mercury	100	1	26-MAR-96	26-MAR-96	0.0001	ND	U	0.0002	MG/L

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Client Sample ID : 027853-02/EQUIPMENT BLANK
Lab Sample ID : 10632-026

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95112

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	100	1	26-MAR-96	26-MAR-96	0.027	0.054	J	0.20	MG/L
Antimony	100	1	26-MAR-96	26-MAR-96	0.032	ND	U	0.060	MG/L
Arsenic	100	1	26-MAR-96	26-MAR-96	0.0046	ND	U	0.010	MG/L
Barium	100	1	26-MAR-96	26-MAR-96	0.0005	0.0047	J	0.20	MG/L
Beryllium	100	1	26-MAR-96	26-MAR-96	0.0006	ND	U	0.005	MG/L
Cadmium	100	1	26-MAR-96	26-MAR-96	0.0034	ND	U	0.005	MG/L
Calcium	100	1	26-MAR-96	26-MAR-96	0.015	2.2	J	5.0	MG/L
Chromium	100	1	26-MAR-96	26-MAR-96	0.0044	ND	U	0.010	MG/L
Cobalt	100	1	26-MAR-96	26-MAR-96	0.0036	ND	U	0.050	MG/L
Copper	100	1	26-MAR-96	26-MAR-96	0.0062	ND	U	0.025	MG/L
Iron	100	1	26-MAR-96	26-MAR-96	0.0073	0.14		0.10	MG/L
Lead	100	1	26-MAR-96	26-MAR-96	0.0017	ND	U	0.003	MG/L
Magnesium	100	1	26-MAR-96	26-MAR-96	0.098	0.18	J	5.0	MG/L
Manganese	100	1	26-MAR-96	26-MAR-96	0.0011	ND	U	0.015	MG/L
Nickel	100	1	26-MAR-96	26-MAR-96	0.016	ND	U	0.040	MG/L
Potassium	100	1	26-MAR-96	26-MAR-96	2.0	ND	U	5.0	MG/L
Selenium	100	1	26-MAR-96	26-MAR-96	0.0045	ND	U	0.005	MG/L
Silver	100	1	26-MAR-96	26-MAR-96	0.0050	ND	U	0.010	MG/L
Sodium	100	1	26-MAR-96	26-MAR-96	0.057	0.23	J	5.0	MG/L
Thallium	100	1	26-MAR-96	26-MAR-96	0.0050	ND	U	0.010	MG/L
Vanadium	100	1	26-MAR-96	26-MAR-96	0.0062	ND	U	0.050	MG/L
Zinc	100	1	26-MAR-96	26-MAR-96	0.0022	0.022		0.020	MG/L

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Client Sample ID : 027830-02/70S:180E
Lab Sample ID : 10632-012

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	4430		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	2.0		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	58.0		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.36	J	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	0.35	J	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	6940		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	6.0		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	2.6	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	3.6		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	7030		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	5.5		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	1550		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	122		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	4.0		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	1040		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	0.56		0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	75.4	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	1.1		1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	12.5		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	17.9		2.0	MG/KG

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Client Sample ID : 027831-02/120S:180E
Lab Sample ID : 10632-013

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	4610		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	2.3		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	94.6		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.43	J	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	42100		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	4.4		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	2.5	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	5.2		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	5450		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	4.0		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	2540		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	75.4		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	4.7		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	946		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	58.1	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	13.2		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	13.9		2.0	MG/KG

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Client Sample ID : 027832-02/170S:180E
Lab Sample ID : 10632-014

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	4880		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	3.3		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	126		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.47	J	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	30600		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	5.5		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	3.1	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	6.2		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	7100		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	5.1		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	2860		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	119		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	5.5		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	921		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	363	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	0.70	J	1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	15.7		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	18.9		2.0	MG/KG

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Client Sample ID : 027833-02/50S:125E
Lab Sample ID : 10632-015

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	2750		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	1.5		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	44.0		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.27	J	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	1540		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	4.0		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	2.4	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	4.0		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	5100		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	5.5		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	1050		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	123		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	3.4	J	4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	714		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	313	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	8.8		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	13.9		2.0	MG/KG

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Client Sample ID : 027834-02/100S:125E
Lab Sample ID : 10632-016

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	9590		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	3.4		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	97.3		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.61		0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	2330		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	8.6		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	3.5	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	5.3		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	10100		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	6.4		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	2140		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	133		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	7.3		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	1620		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	0.56		0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	117	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	1.9		1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	17.7		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	23.4		2.0	MG/KG

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Client Sample ID : 027835-02/150S:125E
Lab Sample ID : 10632-017

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	4740		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	2.9		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	106		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.43	J	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	36600		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	5.4		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	2.9	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	5.8		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	6870		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	5.1		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	2660		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	111		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	5.0		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	1060		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	219	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	0.92	J	1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	14.9		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	17.8		2.0	MG/KG

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Supplier Services for AJ-2480B
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Client Sample ID : 027836-02/200S:125E
Lab Sample ID : 10632-018

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	4910		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	2.7		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	56.5		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.37	J	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	2950		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	5.9		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	2.4	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	3.6		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	6800		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	5.3		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	1400		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	108		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	4.6		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	1200		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	0.54		0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	218	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	0.98	J	1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	11.8		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	16.9		2.0	MG/KG

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : 027837-02/50S:50E
Lab Sample ID : 10632-019

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	4830		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	3.0		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	139		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.42	J	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	28100		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	6.2		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	3.3	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	5.6		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	7450		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	5.0		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	2940		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	119		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	6.1		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	716		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	61.5	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	0.93	J	1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	16.1		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	19.1		2.0	MG/KG

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Client Sample ID : 027838-02/100S:50E
Lab Sample ID : 10632-020

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	4090		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	3.1		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	145		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.45	J	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	39000		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	5.1		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	3.5	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	6.6		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	6550		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	5.2		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	3300		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	128		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	5.6		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	780		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	77.7	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	0.58	J	1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	15.2		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	19.1		2.0	MG/KG

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P.O. Box 5130
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Client Sample ID : 027839-02/150S:50E
Lab Sample ID : 10632-021

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	4250		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	3.3		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	168		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.43	J	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	43100		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	5.4		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	3.3	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	6.1		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	6680		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	5.1		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	3290		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	124		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	6.6		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	789		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	131	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	0.69	J	1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	15.3		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	18.8		2.0	MG/KG

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P.O. Box 5130
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Client Sample ID : 027840-02/150S:50E
Lab Sample ID : 10632-022

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	5070		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	3.7		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	156		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.47	J	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	38300		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	6.4		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	3.4	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	6.4		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	7720		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	5.5		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	3430		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	128		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	6.1		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	185		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	0.56		0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	206	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	0.98	J	1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	16.9		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	20.4		2.0	MG/KG

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P.O. Box 5130
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Client Sample ID : 027841-02/200S:50E
Lab Sample ID : 10632-023

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	7080		20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	3.0		1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	76.6		20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	0.51		0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	2000		500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	6.9		1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	3.2	J	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	3.5		2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	7890		10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	5.4		0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	1710		500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	99.1		1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	5.8		4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	1190		500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	0.47	J	0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	158	J	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	1.4		1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	14.0		5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	18.8		2.0	MG/KG

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Client Sample ID : 027853-02/EQUIPMENT BLANK
Lab Sample ID : 10632-026

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : WATER
Sample Date : 12-MAR-96
Receipt Date : 22-MAR-96
COC Number : 04895
SDG : 10632
QC Batch No. : 95112

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	100	1	26-MAR-96	26-MAR-96	0.027	0.054	J	0.20	MG/L
Antimony	100	1	26-MAR-96	26-MAR-96	0.032	ND	U	0.060	MG/L
Arsenic	100	1	26-MAR-96	26-MAR-96	0.0046	ND	U	0.010	MG/L
Barium	100	1	26-MAR-96	26-MAR-96	0.0005	0.0047	J	0.20	MG/L
Beryllium	100	1	26-MAR-96	26-MAR-96	0.0006	ND	U	0.005	MG/L
Cadmium	100	1	26-MAR-96	26-MAR-96	0.0034	ND	U	0.005	MG/L
Calcium	100	1	26-MAR-96	26-MAR-96	0.015	2.2	J	5.0	MG/L
Chromium	100	1	26-MAR-96	26-MAR-96	0.0044	ND	U	0.010	MG/L
Cobalt	100	1	26-MAR-96	26-MAR-96	0.0036	ND	U	0.050	MG/L
Copper	100	1	26-MAR-96	26-MAR-96	0.0062	ND	U	0.025	MG/L
Iron	100	1	26-MAR-96	26-MAR-96	0.0073	0.14		0.10	MG/L
Lead	100	1	26-MAR-96	26-MAR-96	0.0017	ND	U	0.003	MG/L
Magnesium	100	1	26-MAR-96	26-MAR-96	0.098	0.18	J	5.0	MG/L
Manganese	100	1	26-MAR-96	26-MAR-96	0.0011	ND	U	0.015	MG/L
Nickel	100	1	26-MAR-96	26-MAR-96	0.016	ND	U	0.040	MG/L
Potassium	100	1	26-MAR-96	26-MAR-96	2.0	ND	U	5.0	MG/L
Selenium	100	1	26-MAR-96	26-MAR-96	0.0045	ND	U	0.005	MG/L
Silver	100	1	26-MAR-96	26-MAR-96	0.0050	ND	U	0.010	MG/L
Sodium	100	1	26-MAR-96	26-MAR-96	0.057	0.23	J	5.0	MG/L
Thallium	100	1	26-MAR-96	26-MAR-96	0.0050	ND	U	0.010	MG/L
Vanadium	100	1	26-MAR-96	26-MAR-96	0.0062	ND	U	0.050	MG/L
Zinc	100	1	26-MAR-96	26-MAR-96	0.0022	0.022		0.020	MG/L

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P.O. Box 5130
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Client Sample ID : NA
Lab Sample ID : QCBLK95243-1

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	1	1	27-MAR-96	27-MAR-96	2.7	3.4	J	20.0	MG/KG
Antimony	1	1	27-MAR-96	27-MAR-96	3.2	ND	U	6.0	MG/KG
Arsenic	1	1	27-MAR-96	29-MAR-96	0.46	ND	U	1.0	MG/KG
Barium	1	1	27-MAR-96	27-MAR-96	0.050	ND	U	20.0	MG/KG
Beryllium	1	1	27-MAR-96	27-MAR-96	0.060	ND	U	0.50	MG/KG
Cadmium	1	1	27-MAR-96	27-MAR-96	0.34	ND	U	0.50	MG/KG
Calcium	1	1	27-MAR-96	27-MAR-96	1.5	4.9	J	500	MG/KG
Chromium	1	1	27-MAR-96	27-MAR-96	0.44	ND	U	1.0	MG/KG
Cobalt	1	1	27-MAR-96	27-MAR-96	0.36	ND	U	5.0	MG/KG
Copper	1	1	27-MAR-96	27-MAR-96	0.62	1.1	J	2.5	MG/KG
Iron	1	1	27-MAR-96	27-MAR-96	0.73	2.8	J	10.0	MG/KG
Lead	1	1	27-MAR-96	29-MAR-96	0.17	0.20	J	0.30	MG/KG
Magnesium	1	1	27-MAR-96	27-MAR-96	9.8	ND	U	500	MG/KG
Manganese	1	1	27-MAR-96	27-MAR-96	0.11	ND	U	1.5	MG/KG
Nickel	1	1	27-MAR-96	27-MAR-96	1.6	ND	U	4.0	MG/KG
Potassium	1	1	27-MAR-96	27-MAR-96	201	ND	U	500	MG/KG
Selenium	1	1	27-MAR-96	29-MAR-96	0.45	ND	U	0.50	MG/KG
Silver	1	1	27-MAR-96	27-MAR-96	0.50	ND	U	1.0	MG/KG
Sodium	1	1	27-MAR-96	27-MAR-96	5.7	ND	U	500	MG/KG
Thallium	1	1	27-MAR-96	29-MAR-96	0.50	ND	U	1.0	MG/KG
Vanadium	1	1	27-MAR-96	27-MAR-96	0.62	ND	U	5.0	MG/KG
Zinc	1	1	27-MAR-96	27-MAR-96	0.22	0.54	J	2.0	MG/KG

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Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCBLK95112-1

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95112

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	IDL/ MDL	Result	Qualifier	Detection Limit	Units
Aluminum	100	1	26-MAR-96	26-MAR-96	0.027	0.048	J	0.20	MG/L
Antimony	100	1	26-MAR-96	26-MAR-96	0.032	ND	U	0.060	MG/L
Arsenic	100	1	26-MAR-96	26-MAR-96	0.0046	ND	U	0.010	MG/L
Barium	100	1	26-MAR-96	26-MAR-96	0.0005	ND	U	0.20	MG/L
Beryllium	100	1	26-MAR-96	26-MAR-96	0.0006	ND	U	0.005	MG/L
Cadmium	100	1	26-MAR-96	26-MAR-96	0.0034	ND	U	0.005	MG/L
Calcium	100	1	26-MAR-96	26-MAR-96	0.015	0.052	J	5.0	MG/L
Chromium	100	1	26-MAR-96	26-MAR-96	0.0044	ND	U	0.010	MG/L
Cobalt	100	1	26-MAR-96	26-MAR-96	0.0036	ND	U	0.050	MG/L
Copper	100	1	26-MAR-96	26-MAR-96	0.0062	0.011	J	0.025	MG/L
Iron	100	1	26-MAR-96	26-MAR-96	0.0073	0.036	J	0.10	MG/L
Lead	100	1	26-MAR-96	26-MAR-96	0.0017	ND	U	0.003	MG/L
Magnesium	100	1	26-MAR-96	26-MAR-96	0.098	ND	U	5.0	MG/L
Manganese	100	1	26-MAR-96	26-MAR-96	0.0011	ND	U	0.015	MG/L
Nickel	100	1	26-MAR-96	26-MAR-96	0.016	ND	U	0.040	MG/L
Potassium	100	1	26-MAR-96	26-MAR-96	2.0	ND	U	5.0	MG/L
Selenium	100	1	26-MAR-96	26-MAR-96	0.0045	ND	U	0.005	MG/L
Silver	100	1	26-MAR-96	26-MAR-96	0.0050	ND	U	0.010	MG/L
Sodium	100	1	26-MAR-96	26-MAR-96	0.057	ND	U	5.0	MG/L
Thallium	100	1	26-MAR-96	26-MAR-96	0.0050	ND	U	0.010	MG/L
Vanadium	100	1	26-MAR-96	26-MAR-96	0.0062	ND	U	0.050	MG/L
Zinc	100	1	26-MAR-96	26-MAR-96	0.0022	0.0073	J	0.020	MG/L

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS95243-1

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Aluminum	1	1	27-MAR-96	27-MAR-96	6760	6090	MG/KG	90	120	80	
Arsenic	1	1	27-MAR-96	29-MAR-96	82.5	89.7	MG/KG	109	120	80	
Barium	1	1	27-MAR-96	27-MAR-96	105	105	MG/KG	100	120	80	
Beryllium	1	1	27-MAR-96	27-MAR-96	159	163	MG/KG	102	120	80	
Cadmium	1	1	27-MAR-96	27-MAR-96	128	129	MG/KG	101	120	80	
Calcium	1	1	27-MAR-96	27-MAR-96	2540	2640	MG/KG	104	120	80	
Chromium	1	1	27-MAR-96	27-MAR-96	114	112	MG/KG	98	120	80	
Cobalt	1	1	27-MAR-96	27-MAR-96	182	194	MG/KG	106	120	80	
Copper	1	1	27-MAR-96	27-MAR-96	116	117	MG/KG	101	120	80	
Lead	1	1	27-MAR-96	29-MAR-96	87.6	89.3	MG/KG	102	120	80	
Magnesium	1	1	27-MAR-96	27-MAR-96	1970	1970	MG/KG	100	120	80	
Manganese	1	1	27-MAR-96	27-MAR-96	225	220	MG/KG	98	120	80	
Nickel	1	1	27-MAR-96	27-MAR-96	176	180	MG/KG	102	120	80	
Potassium	1	1	27-MAR-96	27-MAR-96	1900	1920	MG/KG	101	120	80	
Selenium	1	1	27-MAR-96	29-MAR-96	107	108	MG/KG	101	120	80	
Silver	1	1	27-MAR-96	27-MAR-96	71.6	73.2	MG/KG	102	120	80	
Sodium	1	1	27-MAR-96	27-MAR-96	1138	1140	MG/KG	100	120	80	
Thallium	1	1	27-MAR-96	29-MAR-96	130	180	MG/KG	138	120	80	
Vanadium	1	1	27-MAR-96	27-MAR-96	87.1	84.5	MG/KG	97	120	80	
Zinc	1	1	27-MAR-96	27-MAR-96	143	150	MG/KG	105	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS95243-2

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Aluminum	1	1	27-MAR-96	27-MAR-96	6760	5990	MG/KG	89	20	0	1.7
Arsenic	1	1	27-MAR-96	29-MAR-96	82.5	90.5	MG/KG	110	20	0	.9
Barium	1	1	27-MAR-96	27-MAR-96	105	104	MG/KG	99	20	0	1
Beryllium	1	1	27-MAR-96	27-MAR-96	159	163	MG/KG	102	20	0	0
Cadmium	1	1	27-MAR-96	27-MAR-96	128	130	MG/KG	102	20	0	.8
Calcium	1	1	27-MAR-96	27-MAR-96	2540	2590	MG/KG	102	20	0	1.9
Chromium	1	1	27-MAR-96	27-MAR-96	114	112	MG/KG	98	20	0	0
Cobalt	1	1	27-MAR-96	27-MAR-96	182	194	MG/KG	107	20	0	0
Copper	1	1	27-MAR-96	27-MAR-96	116	118	MG/KG	101	20	0	.8
Lead	1	1	27-MAR-96	29-MAR-96	87.6	89.7	MG/KG	102	20	0	.4
Magnesium	1	1	27-MAR-96	27-MAR-96	1970	1950	MG/KG	99	20	0	1
Manganese	1	1	27-MAR-96	27-MAR-96	225	216	MG/KG	96	20	0	1.8
Nickel	1	1	27-MAR-96	27-MAR-96	176	179	MG/KG	102	20	0	.6
Potassium	1	1	27-MAR-96	27-MAR-96	1900	1860	MG/KG	98	20	0	3.2
Selenium	1	1	27-MAR-96	29-MAR-96	107	108	MG/KG	101	20	0	0
Silver	1	1	27-MAR-96	27-MAR-96	71.6	73.8	MG/KG	103	20	0	.8
Sodium	1	1	27-MAR-96	27-MAR-96	1138	1130	MG/KG	99	20	0	.9
Thallium	1	1	27-MAR-96	29-MAR-96	130	182	MG/KG	140	20	0	1.1
Vanadium	1	1	27-MAR-96	27-MAR-96	87.1	84.9	MG/KG	98	20	0	.5
Zinc	1	1	27-MAR-96	27-MAR-96	143	149	MG/KG	104	20	0	.7

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS95243-3

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Antimony	1	1	27-MAR-96	27-MAR-96	100	100	MG/KG	100	120	80	
Iron	1	1	27-MAR-96	27-MAR-96	100	103	MG/KG	103	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS95243-4

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : SOIL
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95243

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Antimony	1	1	27-MAR-96	27-MAR-96	100	97.9	MG/KG	98	20	0	2.1
Iron	1	1	27-MAR-96	27-MAR-96	100	101	MG/KG	101	20	0	2

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS95112-1

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95112

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Aluminum	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	102	120	80	
Antimony	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	100	120	80	
Arsenic	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	105	120	80	
Barium	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	100	120	80	
Beryllium	100	1	26-MAR-96	26-MAR-96	1000	0.98	MG/L	98	120	80	
Cadmium	100	1	26-MAR-96	26-MAR-96	1000	0.98	MG/L	98	120	80	
Calcium	100	1	26-MAR-96	26-MAR-96	20000	19.9	MG/L	100	120	80	
Chromium	100	1	26-MAR-96	26-MAR-96	1000	0.99	MG/L	99	120	80	
Cobalt	100	1	26-MAR-96	26-MAR-96	1000	0.97	MG/L	97	120	80	
Copper	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	102	120	80	
Iron	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	105	120	80	
Lead	100	1	26-MAR-96	26-MAR-96	1000	0.98	MG/L	98	120	80	
Magnesium	100	1	26-MAR-96	26-MAR-96	20000	19.8	MG/L	99	120	80	
Manganese	100	1	26-MAR-96	26-MAR-96	1000	0.99	MG/L	99	120	80	
Nickel	100	1	26-MAR-96	26-MAR-96	1000	0.98	MG/L	98	120	80	
Potassium	100	1	26-MAR-96	26-MAR-96	20000	19.9	MG/L	99	120	80	
Selenium	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	101	120	80	
Silver	100	1	26-MAR-96	26-MAR-96	250	0.18	MG/L	72	120	80	
Sodium	100	1	26-MAR-96	26-MAR-96	20000	19.8	MG/L	99	120	80	
Thallium	100	1	26-MAR-96	26-MAR-96	2000	2.00	MG/L	101	120	80	
Vanadium	100	1	26-MAR-96	26-MAR-96	1000	0.98	MG/L	98	120	80	
Zinc	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	102	120	80	

Sandia National Labs
Supplier Services for AJ-2480B
P.O. Box 5130
Albuquerque, NM 87185-5130

Client Sample ID : NA
Lab Sample ID : QCLCS95112-2

Analyses Requested : ICAP Metals
Lab Method Code : EPA 6010
Digestion Method : EPA6010

Sample Matrix : WATER
Sample Date : NA
Receipt Date : NA
COC Number :
SDG :
QC Batch No. : 95112

Parameter	Aliquot	Dilution	Prep Date	Analyses Date	Spike Added	Result	Units	Percent Recovery	Upper Limit	Lower Limit	RPD
Aluminum	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	105	20	0	0
Antimony	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	102	20	0	0
Arsenic	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	104	20	0	0
Barium	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	100	20	0	0
Beryllium	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	100	20	0	2
Cadmium	100	1	26-MAR-96	26-MAR-96	1000	0.99	MG/L	99	20	0	1
Calcium	100	1	26-MAR-96	26-MAR-96	20000	20.3	MG/L	102	20	0	2
Chromium	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	101	20	0	1
Cobalt	100	1	26-MAR-96	26-MAR-96	1000	0.99	MG/L	99	20	0	2
Copper	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	103	20	0	0
Iron	100	1	26-MAR-96	26-MAR-96	1000	1.1	MG/L	112	20	0	9.5
Lead	100	1	26-MAR-96	26-MAR-96	1000	0.98	MG/L	98	20	0	0
Magnesium	100	1	26-MAR-96	26-MAR-96	20000	20.0	MG/L	100	20	0	1
Manganese	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	100	20	0	1
Nickel	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	101	20	0	2
Potassium	100	1	26-MAR-96	26-MAR-96	20000	20.1	MG/L	100	20	0	1
Selenium	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	100	20	0	0
Silver	100	1	26-MAR-96	26-MAR-96	250	0.18	MG/L	73	20	0	0
Sodium	100	1	26-MAR-96	26-MAR-96	20000	19.9	MG/L	100	20	0	.5
Thallium	100	1	26-MAR-96	26-MAR-96	2000	2.00	MG/L	100	20	0	0
Vanadium	100	1	26-MAR-96	26-MAR-96	1000	0.99	MG/L	100	20	0	1
Zinc	100	1	26-MAR-96	26-MAR-96	1000	1.0	MG/L	103	20	0	0

SMO ANALYTICAL DATA ROUTING FORM

Project Name: MWL RISK ASSESSMENT Case Number: 3618.500

SNL Task Leader: PEACE Org/Mail Stop: 7585/1148

SMO Project Coordinator: PUISSANT Sample Ship Date: 3/13/96

ARCOC	Lab	Lab ID
04897	7713	600199

Date Results Received:

Preliminary: _____ Final: 3/21/96

Corrections Requested From Laboratory: _____ Requestor: _____

Date Corrections Received: _____

Date Assigned to SMO Reviewer: _____ Reviewer: _____

Date Review Complete: _____ Signature: _____

Date of Preliminary Notification: _____ Person Notified: _____

Date of Final Transmittal: 3/29/96 Transmitted To: PEACE

Transmitted By: [illegible] Filed In Record Center: [illegible]

Comments: _____

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INFORMATION ONLY

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ANALYSIS REQUEST AND CHAIN OF CUSTODY

Internal Lab Batch No. 600199

SF 2001-COC (6-95)

AR/COC- 04897

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/3 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0225

Date Samples Shipped: 3-13-96
Carrier/Waybill No.: HC
Lab Contact: Fernando Dominguez
Lab Destination: 7713 C.C.F.
SMO Contact/Phone: Pam Pussaint 848-0402
Send Report to SMO Mack

Contract No.: N/A
Case No.: 3618.500
SMO Authorization:
Bill to: Sandia National Laboratories
Supplier Services Department
P.D. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Location — Tech Area 3 — Building N/A — Room N/A

Reference LOV (available at SMO)

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	Parameter & Method Requested: Gamma Spec	Lab Sample ID
027830-03	70S: 180E	6"	76	3/12/96 0827	S	PG^M	500ml	None	G	SA	X	
027831-03	120S: 180E	6"	76	3/12/96 0833	S	PG^M	500ml	None	G	SA	X	
027832-03	170S: 180E	6"	76	3/12/96 0840	S	PG^M	500ml	None	G	SA	X	
027833-03	50S: 125E	6"	76	3/12/96 0849	S	PG^M	500ml	None	G	SA	X	
027834-03	100S: 125E	6"	76	3/12/96 0856	S	PG^M	500ml	None	G	SA	X	
027835-03	150S: 125E	6"	76	3/12/96 0905	S	PG^M	500ml	None	G	SA	X	
027836-03	200S: 125E	6"	76	3/12/96 0913	S	PG^M	500ml	None	G	SA	X	
027837-03	50S: 50E	6"	76	3/12/96 0922	S	PG^M	500ml	None	G	SA	X	
027838-03	100S: 50E	6"	76	3/12/96 0931	S	PG^M	500ml	None	G	SA	X	
027839-03	~~20~~ 150S: 50E	6"	76	3/12/96 0944	S	PG^M	500ml	None	G	SA	X	

RMMA ☒ Yes ☐ No Ref. No.

Sample Disposal ☒ Return to Client ☐ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date

Sample Tracking
Date Entered (mm/dd/yy) 3/27/96
Entered by: VAMC
QC Inits.

Special Instructions/QC Requirements
Extended Count for Low MDAs
Releases COC 04895

Abnormal Conditions on Receipt

Sample Team Members

Name	Signature	Init	Company/Organization/Phone
Jerry Peace		DP	SNL/7585/284-2472
Tim Goering		TG	GRAM/7585/284-2563
Mike McVey		MM	GRAM/7585/284-2591

	Org.	Date	Time
1. Relinquished by	7585	3/13/96	1400
1. Received by	SMO 7513	3/13/96	1408
2. Relinquished by	SMO 7513	3/13/96	1438
2. Received by	SNL 7713	3/13/96	1438
3. Relinquished by	SNL 7713	3/21/96	1225
3. Received by	7513	3/21/96	1225
4. Relinquished by			
4. Received by			
5. Relinquished by			
5. Received by			
6. Relinquished by			
6. Received by			

WHITE - To Laboratory Company Samples; BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

Internal Lab Batch No. 61/177

SF 2001-COC (6-95)

PAGE 1 OF 2

AR/COC- 0097

Dept. No./Mail Stop: 7585/1148
Project/Task Manager: Jerry Peace
Project Name: MWL Risk Assessment
Record Center Code: WM/3 MWL/DAT
Logbook Ref No: N/A
Service Order No.: CF0225

Date Samples Shipped: 3-13-96
Carrier/Waybill No.: HC
Lab Contact: Fernando Dominguez
Lab Destination: 7713 C.C.F.
SMO Contact/Phone: Pam Russaint 848-0462
Send Report to SMO Mark

Contract No.: N/A
Case No.: 3018.500
SMO Authorization:
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Location: Tech Area 3; Building N/A; Room N/A

Reference LOV (available at SMO)

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	Parameter & Method Requested: Gamma Spec	Lab Sample ID
027830-03	70S: 180E	6"	76	3/12/96 0827	S	PGM	500ml	None	G	SA	X	
027831-03	120S: 180E	6"	76	3/12/96 0833	S	PGM	500ml	None	G	SA	X	
027832-03	170S: 180E	6"	76	3/12/96 0840	S	PGM	500ml	None	G	SA	X	
027833-03	50S: 125E	6"	76	3/12/96 0849	S	PGM	500ml	None	G	SA	X	
027834-03	100S: 125E	6"	76	3/12/96 0856	S	PGM	500ml	None	G	SA	X	
027835-03	150S: 125E	6"	76	3/12/96 0905	S	PGM	500ml	None	G	SA	X	
027836-03	200S: 125E	6"	76	3/12/96 0913	S	PGM	500ml	None	G	SA	X	
027837-03	50S: 50E	6"	76	3/12/96 0922	S	PGM	500ml	None	G	SA	X	
027838-03	100S: 50E	6"	76	3/12/96 0931	S	PGM	500ml	None	G	SA	X	
027839-03	150S: 50E	6"	76	3/12/96 0944	S	PGM	500ml	None	G	SA	X	

RMMA ☒ Yes ☐ No Ref. No.

Sample Disposal ☒ Return to Client ☐ Disposal by lab

Turnaround Time ☒ Normal ☐ Rush Required Report Date

Sample Tracking: Date Entered (mm/dd/yy) 3/27/96 Entered by: LAM QC Inits.

Special Instructions/QC Requirements: Extended Count for low MDAs. Releases COC 04895

Abnormal Conditions on Receipt

Sample Team Members	Name	Signature	Init	Company/Organization/Phone
	Jerry Peace		JP	SNL/7585/284-2472
	Tim Goering		TG	GRAM/7585/284-2563
	Mike McVey		MM	GRAM/7585/284-2591

	Org.	Date	Time
1. Relinquished by	7585	3/13/96	1400
1. Received by	SMO 7513	3/13/96	1400
2. Relinquished by	SMO 7513	3/13/96	1438
2. Received by	SNL 7713	3/13/96	1438
3. Relinquished by	SNL 7713	3/21/96	1225
3. Received by	7513	3/21/96	1225
4. Relinquished by			
4. Received by			
5. Relinquished by			
5. Received by			
6. Relinquished by			
6. Received by			

WHITE - To Accompany Samples, Laboratory Copy; BLUE - To Accompany Samples, Return to SMO; YELLOW - SMO Suspense Copy; PINK - Field Copy

ANALYSIS REQUEST AND CHAIN OF CUSTODY

SF 2001-COD (9-94)

AR/COC- 04897

BATCH #600199

Project Name: MWL Risk Assessment Project/Task Manager: Jerry Pearce Case No.: 3618.500

Location Tech Area 3

Building N/A Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Reference LOV (available at SMO): Sample Matrix	Container: Type	Container: Volume	Preservative	Sample Collection Method	Sample Type	Parameter & Method Requested: Gamma Spec										Lab Sample ID
027840-03	150S: 50E (Dup of 027839)	6"	76	3/12/96 0944	S	P	500ml	None	G	DU	X										
027841-03	200S: 50E	6"	76	3/12/96 0953	S	P	500ml	None	G	SA	X										

Abnormal Conditions on Receipt

Recipient Initials

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- IO Suspense Copy PINK- Field Copy

ANALYSIS REQUEST A[illegible]D CHAIN OF CUSTODY

SF 2001-COD (9-94)

AR/COC- 04877

BATCH #600199

Project Name: MWL Risk Assessment Project/Task Manager: Jerry Peace Case No.: 3618.500

Location Tech Area 3

Building N/A Room N/A

Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	Gamma Spec									Lab Sample ID
027840-03	150S: 50E (Dup of 027834)	6"	76	3/12/96 0944	S	P	500ml	None	G	DU	X									
027841-03	200S: 50E	6"	76	3/12/96 0953	S	P	500ml	None	G	SA	X									

Abnormal Conditions on Receipt

Recipient Initials

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

Sandia National Laboratories
Radiation Protection Sample Diagnostics

Sample Analysis Request Form
Page 1 of 1

To be completed by Customer

Shaded areas are for RPSD use only

Customer: Jerry Peace
Organization: 7585
Project Location: MWL
Phone: 284-2472
Date Results Needed: 3/14/96
Suspect Isotopes:
Other Information: COC 04897

Hazards/Special Instructions:
Extended Count for low MDAs (100min)

Batch Log Number: 000199
Logged By: Zm.

LIMS Login
Results Faxed
Sample Disposal

Analysis Type:
- ☒ Gamma Spec
- ☐ H-3
- ☐ Alpha/Beta
- ☐ Alpha Spec
- ☐ Total U
- ☐ Other

Customer Sample ID	Sample Type	Date/Time Collected	Sample Volume	Requested Analysis	RPSD Sample ID	Rad Scan CPM	Sample Weight	Remarks
027830-03	Solid	3-12-96 0827	500 ml	Gamma Spec	01 ✓	<300	926	
027831-03		3-12-96 0833			02 ✓		892	
027832-03		3-12-96 0840			03 ✓		922	
027833-03		3-12-96 0849			04 ✓		935	
027834-03		3-12-96 0856			05 ✓		870	Det. No. 1 869.
027835-03		3-12-96 0905			06 ✓		895	Det #1 869
027836-03		3-12-96 0913			07 ✓		858	det #1 869
027837-03		3-12-96 0922			08 ✓		896	det #1 869
027838-03		3-12-96 0931			09 ✓		929	Det #1 869
027839-03		3-12-96 0944			10 ✓		923	Det #1 869
027840-03		3-12-96 0944			11 ✓		932	Det #1 869
027841-03		3-12-96 0953			12 ✓		894	
LCS	—	12/00/96	—	γ Spec	13			

Relinquished by [signature]	Date 3/13/96	Time 1438	Received by [signature]	Date 3/13/96	Time 1438
Relinquished by [signature]	Date 3/21/96	Time 1225	Received by [signature]	Date 3/21/96	Time 1225
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

```
*************************************************************************
*                    Sandia National Laboratories                       *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]   *
*                      3-18-96  1:02:57 PM                              *
*************************************************************************
*                                                                       *
*  nalyzed by: RTPreston 3/19/96      Reviewed by:  3/21/96             *
*************************************************************************
```

Customer : J. PEACE (7585)
Customer Sample ID : 027830-03
Lab Sample ID : 60019901

Sample Description : MERINELLE SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 2SMAR
Sample Quantity : 926.000 gram
Sample Date/Time : 3-12-96 8:27:00 AM
Acquire Start Date : 3-18-96 11:20:07 AM
Detector Name : LAB02
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	1.06
TH-234	Not Detected	--------	5.86E-01
RA-226	1.04	5.01E-01	7.49E-01
PB-214	3.33E-01	6.09E-02	4.89E-02
BI-214	2.87E-01	5.87E-02	5.60E-02
TH-232	4.63E-01	2.25E-01	1.33E-01
RA-228	4.55E-01	1.87E-01	1.13E-01
AC-228	5.31E-01	1.16E-01	1.08E-01
TH-228	3.19E-01	1.52E-01	3.41E-01
RA-224	5.46E-01	1.45E-01	7.60E-02
PB-212	4.49E-01	7.03E-02	3.81E-02
BI-212	3.57E-01	1.79E-01	2.57E-01
TL-208	4.20E-01	7.82E-02	6.55E-02
U-235	Not Detected	--------	1.71E-01
TH-231	Not Detected	--------	1.98
PA-231	Not Detected	--------	1.06
TH-227	Not Detected	--------	2.59E-01
RA-223	Not Detected	--------	1.89E-01
RN-219	Not Detected	--------	2.89E-01
PB-211	Not Detected	--------	6.72E-01
TL-207	Not Detected	--------	9.73
AM-241	Not Detected	--------	3.92E-01
PU-239	Not Detected	--------	2.79E+02
NP-237	Not Detected	--------	2.77E-01
PA-233	Not Detected	--------	4.19E-02
TH-229	Not Detected	--------	2.07E-01

[Summary Report] - Sample ID: 60019901

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	3.28E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	4.39E-02
BA-140	Not Detected	--------	1.05E-01
CD-109	Not Detected	--------	9.36E-01
CD-115	Not Detected	--------	3.14E-01
CE-139	Not Detected	--------	2.21E-02
CE-141	Not Detected	--------	4.42E-02
CE-144	Not Detected	--------	1.79E-01
CO-56	Not Detected	--------	2.60E-02
CO-57	Not Detected	--------	2.43E-02
CO-58	Not Detected	--------	2.38E-02
CO-60	Not Detected	--------	2.48E-02
CR-51	Not Detected	--------	1.92E-01
CS-134	Not Detected	--------	3.51E-02
CS-137	6.91E-02	2.28E-02	2.12E-02
CU-64	Not Detected	--------	1.65E+04
EU-152	Not Detected	--------	1.80E-01
EU-154	Not Detected	--------	1.34E-01
EU-155	Not Detected	--------	1.01E-01
FE-59	Not Detected	--------	5.66E-02
GD-153	Not Detected	--------	8.37E-02
HG-203	Not Detected	--------	2.28E-02
I-131	Not Detected	--------	3.45E-02
IN-115m	Not Detected	--------	3.82E+08
IR-192	Not Detected	--------	2.08E-02
K-40	1.22E+01	1.68	3.40E-01
LA-140	Not Detected	--------	3.35E-01
MN-54	Not Detected	--------	2.48E-02
MN-56	Not Detected	--------	4.30E+15
MO-99	Not Detected	--------	8.61E-01
NA-22	Not Detected	--------	3.16E-02
NA-24	Not Detected	--------	2.22E+01
NB-95	Not Detected	--------	3.90E-01
ND-147	Not Detected	--------	2.05E-01
NI-57	Not Detected	--------	6.13E-01
BE-07	Not Detected	--------	1.91E-01
RU-103	Not Detected	--------	2.12E-02
RU-106	Not Detected	--------	2.06E-01
SB-122	Not Detected	--------	1.45E-01
SB-124	Not Detected	--------	2.44E-02
SB-125	Not Detected	--------	6.37E-02
SC-46	Not Detected	--------	3.87E-02
SR-85	Not Detected	--------	2.80E-02
TA-182	Not Detected	--------	1.12E-01
TA-183	Not Detected	--------	7.79E-01
TE-132	Not Detected	--------	7.50E-02
TL-201	Not Detected	--------	4.72E-01
V-48	Not Detected	--------	3.36E-02
XE-133	Not Detected	--------	6.26E-01
Y-88	Not Detected	--------	2.16E-02
ZN-65	Not Detected	--------	7.54E-02
ZR-95	Not Detected	--------	4.46E-02

****
* Sandia National Laboratories *
* Radiation Protection Sample Diagnostics Program [881 Laboratory] *
* 3-18-96 4:40:02 PM *
****
*
nalyzed by: [illegible] 3/18/96 Reviewed by: [illegible] 3/21/96 *
****

Customer : J. PEACE (7585)
Customer Sample ID : 027831-03
Lab Sample ID : 60019902

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 2SMAR
Sample Quantity : 892.000 gram
Sample Date/Time : 3-12-96 8:33:00 AM
Acquire Start Date : 3-18-96 2:51:57 PM
Detector Name : LAB02
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	2.49
TH-234	Not Detected	--------	5.04E-01
RA-226	6.50E-01	3.72E-01	5.65E-01
PB-214	3.06E-01	5.83E-02	5.05E-02
BI-214	2.69E-01	5.41E-02	4.86E-02
TH-232	4.05E-01	2.17E-01	1.88E-01
RA-228	5.07E-01	1.39E-01	1.03E-01
AC-228	4.74E-01	9.88E-02	7.85E-02
TH-228	5.25E-01	1.89E-01	3.50E-01
RA-224	4.71E-01	1.29E-01	7.10E-02
PB-212	4.59E-01	8.12E-02	3.23E-02
BI-212	4.90E-01	2.04E-01	2.81E-01
TL-208	3.75E-01	7.33E-02	6.53E-02
U-235	Not Detected	--------	1.73E-01
TH-231	Not Detected	--------	1.95
PA-231	Not Detected	--------	1.03
TH-227	Not Detected	--------	2.58E-01
RA-223	Not Detected	--------	1.86E-01
RN-219	Not Detected	--------	2.92E-01
PB-211	Not Detected	--------	6.60E-01
TL-207	Not Detected	--------	1.02E+01
AM-241	Not Detected	--------	3.88E-01
PU-239	Not Detected	--------	2.31E+02
NP-237	Not Detected	--------	1.74E-01
PA-233	Not Detected	--------	4.26E-02
TH-229	Not Detected	--------	2.10E-01

[Summary Report] - Sample ID: 60019902

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.32E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	4.39E-02
BA-140	Not Detected	--------	1.11E-01
CD-109	Not Detected	--------	6.02E-01
CD-115	Not Detected	--------	3.19E-01
CE-139	Not Detected	--------	2.23E-02
CE-141	Not Detected	--------	4.41E-02
CE-144	Not Detected	--------	1.77E-01
CO-56	~~1.50E-02~~	~~1.14E-02~~	1.75E-02 not detected 3/21/96
CO-57	Not Detected	--------	2.36E-02
CO-58	Not Detected	--------	2.55E-02
CO-60	Not Detected	--------	2.71E-02
CR-51	Not Detected	--------	1.90E-01
CS-134	Not Detected	--------	3.55E-02
CS-137	Not Detected	--------	2.65E-02
CU-64	Not Detected	--------	2.16E+04
EU-152	Not Detected	--------	1.88E-01
EU-154	Not Detected	--------	1.34E-01
EU-155	Not Detected	--------	1.03E-01
FE-59	Not Detected	--------	5.93E-02
GD-153	Not Detected	--------	8.66E-02
HG-203	Not Detected	--------	2.23E-02
I-131	Not Detected	--------	3.46E-02
IN-115m	Not Detected	--------	6.30E+08
IR-192	Not Detected	--------	2.09E-02
K-40	1.14E+01	1.57	3.49E-01
LA-140	Not Detected	--------	3.46E-01
MN-54	Not Detected	--------	2.53E-02
MN-56	Not Detected	--------	1.11E+16
MO-99	Not Detected	--------	8.29E-01
NA-22	Not Detected	--------	2.93E-02
NA-24	Not Detected	--------	2.68E+01
NB-95	Not Detected	--------	3.98E-01
ND-147	Not Detected	--------	2.12E-01
NI-57	Not Detected	--------	6.71E-01
BE-07	Not Detected	--------	1.85E-01
RU-103	Not Detected	--------	2.27E-02
RU-106	Not Detected	--------	2.09E-01
SB-122	Not Detected	--------	1.42E-01
SB-124	Not Detected	--------	2.42E-02
SB-125	Not Detected	--------	6.16E-02
SC-46	Not Detected	--------	3.98E-02
SR-85	Not Detected	--------	2.81E-02
TA-182	Not Detected	--------	1.16E-01
TA-183	Not Detected	--------	7.83E-01
TE-132	Not Detected	--------	7.66E-02
TL-201	Not Detected	--------	5.04E-01
V-48	Not Detected	--------	3.31E-02
XE-133	Not Detected	--------	6.51E-01
Y-88	Not Detected	--------	2.07E-02
ZN-65	Not Detected	--------	7.58E-02
ZR-95	Not Detected	--------	4.43E-02

```
*********************************************************************
*                    Sandia National Laboratories                   *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]*
*                       3-18-96  6:40:27 PM                         *
*********************************************************************
*                                                                   *
* Analyzed by: RT Preston 3/19/96   Reviewed by: 3/21/96            *
*********************************************************************
```

Customer : J. PEACE (7585)
Customer Sample ID : 027832-03
Lab Sample ID : 60019903

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 1SMAR
Sample Quantity : 922.000 gram
Sample Date/Time : 3-12-96 8:40:00 AM
Acquire Start Date : 3-18-96 4:57:43 PM
Detector Name : LAB01
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	1.06
TH-234	Not Detected	--------	4.37E-01
RA-226	8.50E-01	3.55E-01	5.07E-01
PB-214	5.16E-01	8.67E-02	4.47E-02
BI-214	5.47E-01	9.53E-02	6.05E-02
TH-232	6.35E-01	3.04E-01	1.60E-01
RA-228	5.60E-01	1.58E-01	1.30E-01
AC-228	5.44E-01	1.24E-01	1.14E-01
TH-228	3.51E-01	2.60E-01	3.99E-01
RA-224	6.30E-01	1.74E-01	7.34E-02
PB-212	5.80E-01	1.03E-01	2.91E-02
BI-212	6.36E-01	2.33E-01	2.98E-01
TL-208	5.31E-01	9.92E-02	7.76E-02
U-235	Not Detected	--------	1.46E-01
TH-231	Not Detected	--------	1.46
PA-231	Not Detected	--------	1.10
TH-227	Not Detected	--------	2.65E-01
RA-223	Not Detected	--------	1.43E-01
RN-219	Not Detected	--------	2.99E-01
PB-211	Not Detected	--------	6.83E-01
TL-207	Not Detected	--------	1.11E+01
AM-241	Not Detected	--------	1.37E-01
PU-239	Not Detected	--------	2.71E+02
NP-237	Not Detected	--------	2.07E-01
PA-233	Not Detected	--------	4.57E-02
TH-229	Not Detected	--------	1.60E-01

♀

[Summary Report] - Sample ID: 60019903

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.77E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	3.21E-02
BA-140	Not Detected	--------	1.23E-01
CD-109	Not Detected	--------	7.14E-01
CD-115	Not Detected	--------	3.78E-01
CE-139	Not Detected	--------	2.06E-02
CE-141	Not Detected	--------	3.79E-02
CE-144	Not Detected	--------	1.44E-01
CO-56	Not Detected	--------	3.11E-02
CO-57	Not Detected	--------	1.88E-02
CO-58	Not Detected	--------	2.73E-02
CO-60	Not Detected	--------	3.14E-02
CR-51	Not Detected	--------	2.00E-01
CS-134	Not Detected	--------	3.57E-02
CS-137	1.54E-02	1.70E-02	2.71E-02
CU-64	Not Detected	--------	2.83E+04
EU-152	Not Detected	--------	2.06E-01
EU-154	Not Detected	--------	1.55E-01
EU-155	Not Detected	--------	7.86E-02
FE-59	Not Detected	--------	6.46E-02
GD-153	Not Detected	--------	6.14E-02
HG-203	Not Detected	--------	2.47E-02
I-131	Not Detected	--------	3.79E-02
IN-115m	Not Detected	--------	9.86E+08
IR-192	Not Detected	--------	2.26E-02
K-40	1.24E+01	1.74	3.45E-01
LA-140	Not Detected	--------	4.10E-01
MN-54	Not Detected	--------	2.92E-02
MN-56	Not Detected	--------	2.20E+16
MO-99	Not Detected	--------	1.06
NA-22	Not Detected	--------	3.69E-02
NA-24	Not Detected	--------	3.13E+01
NB-95	Not Detected	--------	3.56E-01
ND-147	Not Detected	--------	2.38E-01
NI-57	Not Detected	--------	8.21E-01
BE-07	Not Detected	--------	2.13E-01
RU-103	Not Detected	--------	2.43E-02
RU-106	Not Detected	--------	2.30E-01
SB-122	Not Detected	--------	1.65E-01
SB-124	Not Detected	--------	2.54E-02
SB-125	Not Detected	--------	6.73E-02
SC-46	Not Detected	--------	4.93E-02
SR-85	Not Detected	--------	3.13E-02
TA-182	Not Detected	--------	1.43E-01
TA-183	Not Detected	--------	2.78E-01
TE-132	Not Detected	--------	7.69E-02
TL-201	Not Detected	--------	2.62E-01
V-48	Not Detected	--------	3.95E-02
XE-133	Not Detected	--------	4.85E-01
Y-88	Not Detected	--------	2.59E-02
ZN-65	Not Detected	--------	9.04E-02
ZR-95	Not Detected	--------	5.27E-02

```
*************************************************************************
*                    Sandia National Laboratories                       *
*    Radiation Protection Sample Diagnostics Program [881 Laboratory]   *
*                      3-18-96  8:27:51 PM                              *
*************************************************************************
*                                                                       *
* Analyzed by: RTPreston 3/19/96   Reviewed by:  3/21/96               *
*************************************************************************
```

Customer : J. PEACE (7585)
Customer Sample ID : 027833-03
Lab Sample ID : 60019904

Sample Description : MARINELLI SOLID SAMPLE
Sample Type : Solid
Sample Geometry : 1SMAR
Sample Quantity : 935.000 gram
Sample Date/Time : 3-12-96 8:49:00 AM
Acquire Start Date : 3-18-96 6:45:02 PM
Detector Name : LAB01
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

```
*************************************************************************
```

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	1.03
TH-234	6.46E-01	2.22E-01	3.08E-01
RA-226	1.10	4.76E-01	6.93E-01
PB-214	4.71E-01	9.64E-02	3.80E-02
BI-214	4.39E-01	8.24E-02	6.47E-02
TH-232	4.71E-01	2.34E-01	1.51E-01
RA-228	5.35E-01	2.57E-01	1.36E-01
AC-228	5.73E-01	1.23E-01	9.86E-02
TH-228	Not Detected	--------	5.40E-01
RA-224	5.79E-01	1.62E-01	7.05E-02
PB-212	5.43E-01	9.63E-02	2.98E-02
BI-212	5.27E-01	2.28E-01	3.11E-01
TL-208	5.31E-01	1.00E-01	8.13E-02
U-235	Not Detected	--------	1.42E-01
TH-231	Not Detected	--------	1.43
PA-231	Not Detected	--------	1.08
TH-227	Not Detected	--------	2.53E-01
RA-223	Not Detected	--------	1.43E-01
RN-219	Not Detected	--------	2.91E-01
PB-211	Not Detected	--------	6.68E-01
TL-207	Not Detected	--------	1.19E+01
AM-241	Not Detected	--------	1.35E-01
PU-239	Not Detected	--------	2.67E+02
NP-237	Not Detected	--------	1.41E-01
PA-233	Not Detected	--------	4.33E-02
TH-229	Not Detected	--------	1.58E-01

♀

[Summary Report] - Sample ID: 60019904

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.89E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	3.14E-02
BA-140	Not Detected	--------	1.26E-01
CD-109	Not Detected	--------	7.06E-01
CD-115	Not Detected	--------	3.75E-01
CE-139	Not Detected	--------	2.09E-02
CE-141	Not Detected	--------	3.65E-02
CE-144	Not Detected	--------	1.46E-01
CO-56	Not Detected	--------	3.06E-02
CO-57	Not Detected	--------	1.86E-02
CO-58	Not Detected	--------	2.89E-02
CO-60	Not Detected	--------	3.23E-02
CR-51	Not Detected	--------	1.99E-01
CS-134	Not Detected	--------	3.31E-02
CS-137	2.27E-02	1.35E-02	1.98E-02
CU-64	Not Detected	--------	3.15E+04
EU-152	Not Detected	--------	2.03E-01
EU-154	Not Detected	--------	1.45E-01
EU-155	Not Detected	--------	7.90E-02
FE-59	Not Detected	--------	6.73E-02
GD-153	Not Detected	--------	6.27E-02
HG-203	Not Detected	--------	2.46E-02
I-131	Not Detected	--------	3.69E-02
IN-115m	Not Detected	--------	1.23E+09
IR-192	Not Detected	--------	2.17E-02
K-40	1.38E+01	1.92	3.16E-01
LA-140	Not Detected	--------	4.27E-01
MN-54	Not Detected	--------	2.97E-02
MN-56	Not Detected	--------	3.36E+16
MO-99	Not Detected	--------	1.05
NA-22	Not Detected	--------	4.00E-02
NA-24	Not Detected	--------	3.70E+01
NB-95	Not Detected	--------	3.41E-01
ND-147	Not Detected	--------	2.28E-01
NI-57	Not Detected	--------	8.68E-01
BE-07	Not Detected	--------	2.13E-01
RU-103	Not Detected	--------	2.45E-02
RU-106	Not Detected	--------	2.31E-01
SB-122	Not Detected	--------	1.65E-01
SB-124	Not Detected	--------	2.56E-02
SB-125	Not Detected	--------	6.35E-02
SC-46	Not Detected	--------	4.89E-02
SR-85	Not Detected	--------	3.00E-02
TA-182	Not Detected	--------	1.40E-01
TA-183	Not Detected	--------	2.77E-01
TE-132	Not Detected	--------	7.45E-02
TL-201	Not Detected	--------	2.56E-01
V-48	Not Detected	--------	3.83E-02
XE-133	Not Detected	--------	4.90E-01
Y-88	Not Detected	--------	2.52E-02
ZN-65	Not Detected	--------	9.16E-02
ZR-95	Not Detected	--------	5.14E-02

```
*********************************************************************
*                    Sandia National Laboratories                   *
*    Radiation Protection Sample Diagnostics Program [869 Laboratory]*
*                      3-19-96  2:01:22 PM                          *
*********************************************************************
*                                                                   *
   nalyzed by: RTPreston 3/19/96      Reviewed by:  3/21/96         *
*********************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027834-03
Lab Sample ID : 60019905

Sample Description : MARINELLI SOIL SAMPLE
Sample Type : Solid
Sample Geometry : 1SMAR
Sample Quantity : 870.000 gram
Sample Date/Time : 3-12-96 8:56:00 AM
Acquire Start Date : 3-19-96 12:18:22 PM
Detector Name : LAB01
Elapsed Live Time : 6000 seconds
Elapsed Real Time : 6003 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	5.30E-01	5.20E-01	8.16E-01
TH-234	7.68E-01	2.20E-01	2.51E-01
RA-226	8.51E-01	2.94E-01	3.98E-01
PB-214	4.70E-01	7.76E-02	5.27E-02
BI-214	4.49E-01	7.59E-02	3.98E-02
TH-232	6.36E-01	2.96E-01	1.28E-01
RA-228	6.61E-01	2.83E-01	1.10E-01
AC-228	5.98E-01	1.19E-01	8.56E-02
TH-228	6.88E-01	2.61E-01	3.50E-01
RA-224	Not Detected	--------	0.00
PB-212	6.14E-01	1.07E-01	2.41E-02
BI-212	6.58E-01	2.11E-01	2.55E-01
TL-208	5.49E-01	9.81E-02	7.38E-02
U-235	2.64E-02	4.70E-02	1.38E-01
TH-231	Not Detected	--------	1.19
PA-231	Not Detected	--------	9.89E-01
TH-227	Not Detected	--------	2.74E-01
RA-223	Not Detected	--------	1.25E-01
RN-219	Not Detected	--------	2.59E-01
PB-211	Not Detected	--------	6.04E-01
TL-207	Not Detected	--------	1.02E+01
AM-241	Not Detected	--------	8.04E-02
PU-239	Not Detected	--------	2.34E+02
NP-237	Not Detected	--------	1.08E-01
PA-233	Not Detected	--------	4.01E-02
TH-229	Not Detected	--------	1.32E-01

[Summary Report] - Sample ID: 60019905

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.19E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	4.14E-02
BA-140	Not Detected	--------	1.15E-01
CD-109	Not Detected	--------	3.75E-01
CD-115	Not Detected	--------	4.54E-01
CE-139	Not Detected	--------	1.93E-02
CE-141	Not Detected	--------	3.60E-02
CE-144	Not Detected	--------	1.25E-01
CO-56	Not Detected	--------	2.55E-02
CO-57	Not Detected	--------	1.62E-02
CO-58	Not Detected	--------	2.59E-02
CO-60	Not Detected	--------	2.68E-02
CR-51	Not Detected	--------	1.86E-01
CS-134	Not Detected	--------	3.55E-02
CS-137	Not Detected	--------	2.50E-02
CU-64	Not Detected	--------	6.82E+04
EU-152	Not Detected	--------	1.79E-01
EU-154	Not Detected	--------	1.38E-01
EU-155	Not Detected	--------	6.69E-02
FE-59	Not Detected	--------	6.24E-02
GD-153	Not Detected	--------	5.27E-02
HG-203	Not Detected	--------	2.59E-02
I-131	Not Detected	--------	3.90E-02
IN-115m	Not Detected	--------	1.77E+10
IR-192	Not Detected	--------	2.00E-02
K-40	1.36E+01	1.88	2.85E-01
LA-140	Not Detected	--------	4.64E-01
MN-54	Not Detected	--------	1.41E-02
MN-56	Not Detected	--------	1.00E+26
MO-99	Not Detected	--------	1.12
NA-22	Not Detected	--------	3.05E-02
NA-24	Not Detected	--------	6.76E+01
NB-95	Not Detected	--------	5.00E-01
ND-147	Not Detected	--------	2.19E-01
NI-57	Not Detected	--------	9.66E-01
BE-07	Not Detected	--------	1.97E-01
RU-103	Not Detected	--------	2.24E-02
RU-106	Not Detected	--------	1.91E-01
SB-122	Not Detected	--------	1.82E-01
SB-124	Not Detected	--------	2.25E-02
SB-125	Not Detected	--------	5.88E-02
SC-46	Not Detected	--------	4.25E-02
SR-85	Not Detected	--------	2.83E-02
TA-182	Not Detected	--------	1.22E-01
TA-183	Not Detected	--------	1.79E-01
TE-132	Not Detected	--------	8.41E-02
TL-201	Not Detected	--------	2.66E-01
V-48	Not Detected	--------	3.40E-02
XE-133	Not Detected	--------	5.09E-01
Y-88	Not Detected	--------	1.96E-02
ZN-65	Not Detected	--------	8.05E-02
ZR-95	Not Detected	--------	4.71E-02

```
*********************************************************************
*                    Sandia National Laboratories                   *
*    Radiation Protection Sample Diagnostics Program [869 Laboratory]*
*                      3-19-96  3:33:31 PM                          *
*********************************************************************
*                                                                   *
*  nalyzed by: RT Newton 3/19/96        Reviewed by: 3/21/96        *
*********************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027835-03
Lab Sample ID : 60019906

Sample Description : MARINELLI SOIL SAMPLE
Sample Type : Solid
Sample Geometry : 1SMAR
Sample Quantity : 895.000 gram
Sample Date/Time : 3-12-96 9:05:00 AM
Acquire Start Date : 3-19-96 2:30:44 PM
Detector Name : LAB01
Elapsed Live Time : 3600 seconds
Elapsed Real Time : 3602 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	9.80E-01
TH-234	8.91E-01	2.78E-01	3.08E-01
RA-226	9.17E-01	4.07E-01	5.86E-01
PB-214	5.04E-01	8.44E-02	4.97E-02
BI-214	5.00E-01	8.92E-02	5.13E-02
TH-232	5.39E-01	2.62E-01	1.45E-01
RA-228	5.29E-01	2.68E-01	1.29E-01
AC-228	4.90E-01	1.11E-01	8.49E-02
TH-228	4.92E-01	3.30E-01	4.99E-01
RA-224	Not Detected	--------	0.00
PB-212	5.30E-01	9.37E-02	3.11E-02
BI-212	6.02E-01	2.65E-01	3.58E-01
TL-208	5.07E-01	1.00E-01	8.04E-02
U-235	~~2.20E-01~~	~~1.49E-01~~	1.72E-01 } not detected 3/21/96
TH-231	~~3.19E-01~~	~~6.06E-01~~	1.46
PA-231	Not Detected	--------	1.24
TH-227	Not Detected	--------	3.28E-01
RA-223	Not Detected	--------	1.55E-01
RN-219	Not Detected	--------	3.18E-01
PB-211	Not Detected	--------	7.15E-01
TL-207	Not Detected	--------	1.15E+01
AM-241	Not Detected	--------	1.00E-01
PU-239	Not Detected	--------	2.95E+02
NP-237	Not Detected	--------	1.40E-01
PA-233	Not Detected	--------	5.16E-02
TH-229	Not Detected	--------	1.66E-01

[Summary Report] - Sample ID: 60019906

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	3.13E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	5.34E-02
BA-140	Not Detected	--------	1.48E-01
CD-109	Not Detected	--------	4.86E-01
CD-115	Not Detected	--------	5.80E-01
CE-139	Not Detected	--------	2.43E-02
CE-141	Not Detected	--------	4.53E-02
CE-144	Not Detected	--------	1.61E-01
CO-56	Not Detected	--------	3.14E-02
CO-57	Not Detected	--------	1.98E-02
CO-58	Not Detected	--------	2.90E-02
CO-60	Not Detected	--------	3.35E-02
CR-51	Not Detected	--------	2.45E-01
CS-134	Not Detected	--------	4.68E-02
CS-137	1.22E-02	1.72E-02	2.79E-02
CU-64	Not Detected	--------	9.58E+04
EU-152	Not Detected	--------	2.07E-01
EU-154	Not Detected	--------	1.63E-01
EU-155	Not Detected	--------	8.54E-02
FE-59	Not Detected	--------	7.38E-02
GD-153	Not Detected	--------	6.42E-02
HG-203	Not Detected	--------	2.89E-02
I-131	Not Detected	--------	4.44E-02
IN-115m	Not Detected	--------	2.88E+10
IR-192	Not Detected	--------	2.64E-02
K-40	1.25E+01	1.77	3.06E-01
LA-140	Not Detected	--------	7.54E-01
MN-54	Not Detected	--------	3.08E-02
MN-56	Not Detected	--------	1.00E+26
MO-99	Not Detected	--------	1.32
NA-22	Not Detected	--------	3.83E-02
NA-24	Not Detected	--------	8.92E+01
NB-95	Not Detected	--------	6.08E-01
ND-147	Not Detected	--------	2.86E-01
NI-57	Not Detected	--------	1.36
BE-07	Not Detected	--------	2.40E-01
RU-103	Not Detected	--------	2.65E-02
RU-106	Not Detected	--------	2.49E-01
SB-122	Not Detected	--------	2.28E-01
SB-124	Not Detected	--------	2.73E-02
SB-125	Not Detected	--------	7.62E-02
SC-46	Not Detected	--------	5.51E-02
SR-85	Not Detected	--------	3.37E-02
TA-182	Not Detected	--------	1.60E-01
TA-183	Not Detected	--------	2.24E-01
TE-132	Not Detected	--------	1.07E-01
TL-201	Not Detected	--------	3.26E-01
V-48	Not Detected	--------	4.28E-02
XE-133	Not Detected	--------	6.44E-01
Y-88	Not Detected	--------	2.72E-02
ZN-65	Not Detected	--------	1.04E-01
ZR-95	Not Detected	--------	5.55E-02

```
*****************************************************************************
*                    Sandia National Laboratories                           *
*    Radiation Protection Sample Diagnostics Program [869 Laboratory]       *
*                      3-19-96  4:54:44 PM                                  *
*****************************************************************************
*                                                                           *
*  nalyzed by: RtPreston 3/20/96  Reviewed by:  3/21/96                     *
*****************************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027836-03
Lab Sample ID : 60019907

Sample Description : MARINELLI SOIL SAMPLE
Sample Type : Solid
Sample Geometry : 1SMAR
Sample Quantity : 858.000 gram
Sample Date/Time : 3-12-96 9:13:00 AM
Acquire Start Date : 3-19-96 3:38:55 PM
Detector Name : LAB01
Elapsed Live Time : 3600 seconds
Elapsed Real Time : 3602 seconds

Comments:

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Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	Not Detected	--------	1.00
TH-234	7.28E-01	2.61E-01	3.31E-01
RA-226	7.09E-01	3.85E-01	5.74E-01
PB-214	4.93E-01	8.70E-02	6.30E-02
BI-214	4.41E-01	8.26E-02	5.43E-02
TH-232	5.79E-01	2.92E-01	2.04E-01
RA-228	5.21E-01	1.74E-01	1.41E-01
AC-228	5.88E-01	1.34E-01	1.15E-01
TH-228	1.99E-01	2.92E-01	4.74E-01
RA-224	Not Detected	--------	0.00
PB-212	5.93E-01	1.05E-01	3.60E-02
BI-212	6.63E-01	2.44E-01	2.96E-01
TL-208	5.94E-01	1.13E-01	8.45E-02
U-235	Not Detected	--------	1.85E-01
TH-231	Not Detected	--------	1.57
PA-231	Not Detected	--------	1.30
TH-227	Not Detected	--------	3.65E-01
RA-223	Not Detected	--------	1.67E-01
RN-219	Not Detected	--------	3.62E-01
PB-211	Not Detected	--------	8.51E-01
TL-207	Not Detected	--------	1.37E+01
AM-241	Not Detected	--------	1.04E-01
PU-239	Not Detected	--------	3.10E+02
NP-237	Not Detected	--------	1.45E-01
PA-233	Not Detected	--------	5.53E-02
TH-229	Not Detected	--------	1.79E-01

[Summary Report] - Sample ID: 60019907

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	3.24E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	5.51E-02
BA-140	Not Detected	--------	1.60E-01
CD-109	Not Detected	--------	5.03E-01
CD-115	Not Detected	--------	6.21E-01
CE-139	Not Detected	--------	2.57E-02
CE-141	Not Detected	--------	4.91E-02
CE-144	Not Detected	--------	1.66E-01
CO-56	Not Detected	--------	3.55E-02
CO-57	Not Detected	--------	2.17E-02
CO-58	Not Detected	--------	3.08E-02
CO-60	Not Detected	--------	3.67E-02
CR-51	Not Detected	--------	2.60E-01
CS-134	Not Detected	--------	4.65E-02
CS-137	1.08E-02	1.45E-02	2.34E-02
CU-64	Not Detected	--------	1.03E+05
EU-152	Not Detected	--------	2.31E-01
EU-154	Not Detected	--------	1.82E-01
EU-155	Not Detected	--------	9.20E-02
FE-59	Not Detected	--------	7.96E-02
GD-153	Not Detected	--------	7.08E-02
HG-203	Not Detected	--------	3.15E-02
I-131	Not Detected	--------	4.98E-02
IN-115m	Not Detected	--------	3.56E+10
IR-192	Not Detected	--------	2.82E-02
K-40	1.39E+01	1.97	3.53E-01
LA-140	Not Detected	--------	6.89E-01
MN-54	Not Detected	--------	3.56E-02
MN-56	Not Detected	--------	1.00E+26
MO-99	Not Detected	--------	1.52
NA-22	Not Detected	--------	4.23E-02
NA-24	Not Detected	--------	8.87E+01
NB-95	Not Detected	--------	6.81E-01
ND-147	Not Detected	--------	3.15E-01
NI-57	Not Detected	--------	1.41
BE-07	Not Detected	--------	2.51E-01
RU-103	Not Detected	--------	3.04E-02
RU-106	Not Detected	--------	2.68E-01
SB-122	Not Detected	--------	2.54E-01
SB-124	Not Detected	--------	2.82E-02
SB-125	Not Detected	--------	7.85E-02
SC-46	Not Detected	--------	5.36E-02
SR-85	Not Detected	--------	3.83E-02
TA-182	Not Detected	--------	1.56E-01
TA-183	Not Detected	--------	2.34E-01
TE-132	Not Detected	--------	1.15E-01
TL-201	Not Detected	--------	3.65E-01
V-48	Not Detected	--------	4.20E-02
XE-133	Not Detected	--------	6.98E-01
Y-88	Not Detected	--------	2.99E-02
ZN-65	Not Detected	--------	1.02E-01
ZR-95	Not Detected	--------	6.08E-02

```
*****************************************************************************
*                    Sandia National Laboratories                           *
*    Radiation Protection Sample Diagnostics Program [869 Laboratory]       *
*                      3-19-96  5:50:26 PM                                  *
*****************************************************************************
*                                                                           *
   nalyzed by: RTPrewton 3/20/96      Reviewed by: [signature] 3/21/96      *
*****************************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027837-03
Lab Sample ID : 60019908

Sample Description : MARINELLI SOIL SAMPLE
Sample Type : Solid
Sample Geometry : 1SMAR
Sample Quantity : 896.000 gram
Sample Date/Time : 3-12-96 9:22:00 AM
Acquire Start Date : 3-19-96 4:47:42 PM
Detector Name : LAB01
Elapsed Live Time : 3600 seconds
Elapsed Real Time : 3602 seconds

Comments:

*****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	4.43E-01	5.08E-01	8.06E-01
TH-234	6.25E-01	2.45E-01	3.06E-01
RA-226	9.67E-01	4.47E-01	6.52E-01
PB-214	5.24E-01	8.71E-02	5.02E-02
BI-214	4.83E-01	8.84E-02	5.71E-02
TH-232	5.58E-01	3.01E-01	2.63E-01
RA-228	5.25E-01	3.15E-01	1.46E-01
AC-228	5.39E-01	1.20E-01	9.35E-02
TH-228	4.22E-01	3.81E-01	5.98E-01
RA-224	Not Detected	--------	0.00
PB-212	5.35E-01	9.46E-02	3.16E-02
BI-212	4.39E-01	2.32E-01	3.28E-01
TL-208	5.22E-01	1.03E-01	8.27E-02
U-235	Not Detected	--------	1.70E-01
TH-231	Not Detected	--------	1.49
PA-231	Not Detected	--------	1.24
TH-227	Not Detected	--------	3.31E-01
RA-223	Not Detected	--------	1.56E-01
RN-219	Not Detected	--------	3.24E-01
PB-211	Not Detected	--------	7.53E-01
TL-207	Not Detected	--------	1.22E+01
AM-241	Not Detected	--------	9.81E-02
PU-239	Not Detected	--------	2.98E+02
NP-237	Not Detected	--------	1.36E-01
PA-233	Not Detected	--------	5.47E-02
TH-229	Not Detected	--------	1.68E-01

[Summary Report] - Sample ID: 60019908

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.76E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	5.41E-02
BA-140	Not Detected	--------	1.41E-01
CD-109	Not Detected	--------	4.73E-01
CD-115	Not Detected	--------	5.68E-01
CE-139	Not Detected	--------	2.44E-02
CE-141	Not Detected	--------	4.49E-02
CE-144	Not Detected	--------	1.59E-01
CO-56	Not Detected	--------	3.04E-02
CO-57	Not Detected	--------	2.04E-02
CO-58	Not Detected	--------	3.07E-02
CO-60	Not Detected	--------	3.46E-02
CR-51	Not Detected	--------	2.44E-01
CS-134	Not Detected	--------	4.78E-02
CS-137	Not Detected	--------	3.11E-02
CU-64	Not Detected	--------	9.82E+04
EU-152	Not Detected	--------	2.16E-01
EU-154	Not Detected	--------	1.60E-01
EU-155	Not Detected	--------	8.26E-02
FE-59	Not Detected	--------	7.58E-02
GD-153	Not Detected	--------	6.74E-02
HG-203	Not Detected	--------	2.93E-02
I-131	Not Detected	--------	4.92E-02
IN-115m	Not Detected	--------	3.74E+10
IR-192	Not Detected	--------	2.63E-02
K-40	1.30E+01	1.84	3.18E-01
LA-140	Not Detected	--------	7.30E-01
MN-54	Not Detected	--------	3.36E-02
MN-56	Not Detected	--------	1.00E+26
MO-99	Not Detected	--------	1.35
NA-22	Not Detected	--------	4.16E-02
NA-24	Not Detected	--------	1.03E+02
NB-95	Not Detected	--------	6.23E-01
ND-147	Not Detected	--------	2.82E-01
NI-57	Not Detected	--------	1.38
BE-07	Not Detected	--------	2.56E-01
RU-103	Not Detected	--------	2.79E-02
RU-106	Not Detected	--------	2.50E-01
SB-122	Not Detected	--------	2.41E-01
SB-124	Not Detected	--------	3.00E-02
SB-125	Not Detected	--------	7.51E-02
SC-46	Not Detected	--------	5.52E-02
SR-85	Not Detected	--------	3.57E-02
TA-182	Not Detected	--------	1.62E-01
TA-183	Not Detected	--------	2.23E-01
TE-132	Not Detected	--------	1.08E-01
TL-201	Not Detected	--------	3.34E-01
V-48	Not Detected	--------	4.35E-02
XE-133	Not Detected	--------	6.75E-01
Y-88	Not Detected	--------	2.45E-02
ZN-65	Not Detected	--------	1.04E-01
ZR-95	Not Detected	--------	5.81E-02

```
*********************************************************************
*                  Sandia National Laboratories                     *
*    Radiation Protection Sample Diagnostics Program [869 Laboratory] *
*                     3-20-96 10:10:28 AM                           *
*********************************************************************
*                                                                   *
   nalyzed by: RTPreston 3/20/96  Reviewed by: [signature] 3/21/96  *
*********************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027838-03
Lab Sample ID : 60019909

Sample Description : MARINELLI SOIL SAMPLE
Sample Type : Solid
Sample Geometry : 1SMAR
Sample Quantity : 929.000 gram
Sample Date/Time : 3-12-96 9:31:00 AM
Acquire Start Date : 3-20-96 9:07:39 AM
Detector Name : LAB01
Elapsed Live Time : 3600 seconds
Elapsed Real Time : 3602 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	5.25E-01	5.50E-01	8.67E-01
TH-234	8.61E-01	2.64E-01	3.05E-01
RA-226	1.51	2.84E-01	4.49E-01
PB-214	5.89E-01	9.58E-02	5.39E-02
BI-214	4.99E-01	9.01E-02	5.70E-02
TH-232	6.44E-01	3.06E-01	1.48E-01
RA-228	5.30E-01	1.61E-01	1.23E-01
AC-228	5.51E-01	1.29E-01	1.16E-01
TH-228	4.11E-01	3.33E-01	5.17E-01
RA-224	Not Detected	--------	0.00
PB-212	5.87E-01	1.09E-01	3.22E-02
BI-212	7.86E-01	2.79E-01	3.46E-01
TL-208	5.58E-01	1.06E-01	8.14E-02
U-235	Not Detected	--------	1.77E-01
TH-231	~~5.17E-01~~	~~8.13E-01~~	1.50 — not detected [signature] 3/21/96
PA-231	Not Detected	--------	1.25
TH-227	Not Detected	--------	3.38E-01
RA-223	Not Detected	--------	1.65E-01
RN-219	Not Detected	--------	3.45E-01
PB-211	Not Detected	--------	7.80E-01
TL-207	Not Detected	--------	1.15E+01
AM-241	Not Detected	--------	9.81E-02
PU-239	Not Detected	--------	3.00E+02
NP-237	Not Detected	--------	1.43E-01
PA-233	Not Detected	--------	5.28E-02
TH-229	Not Detected	--------	1.62E-01

[Summary Report] - Sample ID: 60019909

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.83E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	5.54E-02
BA-140	Not Detected	--------	1.48E-01
CD-109	Not Detected	--------	4.96E-01
CD-115	Not Detected	--------	7.54E-01
CE-139	Not Detected	--------	2.42E-02
CE-141	Not Detected	--------	4.80E-02
CE-144	Not Detected	--------	1.62E-01
CO-56	Not Detected	--------	3.12E-02
CO-57	Not Detected	--------	2.04E-02
CO-58	Not Detected	--------	3.10E-02
CO-60	Not Detected	--------	3.25E-02
CR-51	Not Detected	--------	2.56E-01
CS-134	Not Detected	--------	4.69E-02
CS-137	Not Detected	--------	3.14E-02
CU-64	Not Detected	--------	2.28E+05
EU-152	Not Detected	--------	2.16E-01
EU-154	Not Detected	--------	1.57E-01
EU-155	Not Detected	--------	8.65E-02
FE-59	Not Detected	--------	7.10E-02
GD-153	Not Detected	--------	6.51E-02
HG-203	Not Detected	--------	2.97E-02
I-131	Not Detected	--------	5.07E-02
IN-115m	Not Detected	--------	4.92E+11
IR-192	Not Detected	--------	2.72E-02
K-40	1.23E+01	1.74	2.69E-01
LA-140	Not Detected	--------	8.06E-01
MN-54	Not Detected	--------	1.79E-02
MN-56	Not Detected	--------	1.00E+26
MO-99	Not Detected	--------	1.71
NA-22	Not Detected	--------	3.99E-02
NA-24	Not Detected	--------	1.89E+02
NB-95	Not Detected	--------	7.28E-01
ND-147	Not Detected	--------	2.82E-01
NI-57	Not Detected	--------	1.78
BE-07	Not Detected	--------	2.54E-01
RU-103	Not Detected	--------	2.88E-02
RU-106	Not Detected	--------	2.56E-01
SB-122	Not Detected	--------	2.98E-01
SB-124	Not Detected	--------	2.94E-02
SB-125	Not Detected	--------	7.36E-02
SC-46	Not Detected	--------	5.51E-02
SR-85	Not Detected	--------	3.58E-02
TA-182	Not Detected	--------	1.62E-01
TA-183	Not Detected	--------	2.45E-01
TE-132	Not Detected	--------	1.25E-01
TL-201	Not Detected	--------	3.98E-01
V-48	Not Detected	--------	4.63E-02
XE-133	Not Detected	--------	8.36E-01
Y-88	Not Detected	--------	2.37E-02
ZN-65	Not Detected	--------	1.02E-01
ZR-95	Not Detected	--------	6.01E-02

```
*********************************************************************
*                    Sandia National Laboratories                   *
*    Radiation Protection Sample Diagnostics Program [869 Laboratory]*
*                      3-20-96 11:16:59 AM                          *
*********************************************************************
*                                                                   *
*  nalyzed by: RTPreston 3/20/96     Reviewed by:  3/20/96          *
*********************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027839-03
Lab Sample ID : 60019910

Sample Description : MARINELLI SOIL SAMPLE
Sample Type : Solid
Sample Geometry : 1SMAR
Sample Quantity : 923.000 gram
Sample Date/Time : 3-12-96 9:44:00 AM
Acquire Start Date : 3-20-96 10:14:07 AM
Detector Name : LAB01
Elapsed Live Time : 3600 seconds
Elapsed Real Time : 3602 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	1.02	5.42E-01	6.65E-01
TH-234	6.92E-01	2.45E-01	3.04E-01
RA-226	8.51E-01	3.92E-01	5.69E-01
PB-214	5.86E-01	9.60E-02	5.59E-02
BI-214	5.13E-01	9.23E-02	5.76E-02
TH-232	5.74E-01	2.82E-01	1.73E-01
RA-228	4.91E-01	1.61E-01	2.00E-01
AC-228	6.07E-01	1.31E-01	9.87E-02
TH-228	5.50E-01	3.60E-01	5.45E-01
RA-224	Not Detected	--------	0.00
PB-212	5.63E-01	9.16E-02	3.24E-02
BI-212	5.42E-01	2.35E-01	3.11E-01
TL-208	4.76E-01	9.39E-02	7.31E-02
U-235	Not Detected	--------	1.80E-01
TH-231	Not Detected	--------	1.47
PA-231	Not Detected	--------	1.22
TH-227	Not Detected	--------	3.32E-01
RA-223	Not Detected	--------	1.63E-01
RN-219	Not Detected	--------	3.39E-01
PB-211	Not Detected	--------	7.79E-01
TL-207	Not Detected	--------	1.23E+01
AM-241	Not Detected	--------	9.96E-02
PU-239	Not Detected	--------	2.88E+02
NP-237	Not Detected	--------	1.35E-01
PA-233	Not Detected	--------	5.35E-02
TH-229	Not Detected	--------	1.64E-01

[Summary Report] - Sample ID: 60019910

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.76E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	5.63E-02
BA-140	Not Detected	--------	1.47E-01
CD-109	Not Detected	--------	4.70E-01
CD-115	Not Detected	--------	7.33E-01
CE-139	Not Detected	--------	2.40E-02
CE-141	Not Detected	--------	4.73E-02
CE-144	Not Detected	--------	1.61E-01
CO-56	Not Detected	--------	3.23E-02
CO-57	Not Detected	--------	1.98E-02
CO-58	Not Detected	--------	2.92E-02
CO-60	Not Detected	--------	3.63E-02
CR-51	Not Detected	--------	2.55E-01
CS-134	Not Detected	--------	4.70E-02
CS-137	Not Detected	--------	3.24E-02
CU-64	Not Detected	--------	2.51E+05
EU-152	Not Detected	--------	2.09E-01
EU-154	Not Detected	--------	1.57E-01
EU-155	Not Detected	--------	5.18E-02
FE-59	Not Detected	--------	7.71E-02
GD-153	Not Detected	--------	6.55E-02
HG-203	Not Detected	--------	2.99E-02
I-131	Not Detected	--------	4.80E-02
IN-115m	Not Detected	--------	5.42E+11
IR-192	Not Detected	--------	2.68E-02
K-40	1.27E+01	1.80	3.56E-01
LA-140	Not Detected	--------	8.32E-01
MN-54	Not Detected	--------	3.22E-02
MN-56	Not Detected	--------	1.00E+26
MO-99	Not Detected	--------	1.65
NA-22	Not Detected	--------	3.90E-02
NA-24	Not Detected	--------	2.12E+02
NB-95	Not Detected	--------	7.14E-01
ND-147	Not Detected	--------	2.86E-01
NI-57	Not Detected	--------	1.86
BE-07	Not Detected	--------	2.47E-01
RU-103	Not Detected	--------	2.91E-02
RU-106	Not Detected	--------	2.48E-01
SB-122	Not Detected	--------	2.90E-01
SB-124	Not Detected	--------	2.87E-02
SB-125	Not Detected	--------	7.31E-02
SC-46	Not Detected	--------	5.60E-02
SR-85	Not Detected	--------	3.24E-02
TA-182	Not Detected	--------	1.65E-01
TA-183	Not Detected	--------	2.51E-01
TE-132	Not Detected	--------	1.25E-01
TL-201	Not Detected	--------	3.97E-01
V-48	Not Detected	--------	4.29E-02
XE-133	Not Detected	--------	8.37E-01
Y-88	Not Detected	--------	2.84E-02
ZN-65	Not Detected	--------	1.03E-01
ZR-95	Not Detected	--------	5.79E-02

```
*************************************************************************
*                    Sandia National Laboratories                       *
*    Radiation Protection Sample Diagnostics Program [869 Laboratory]   *
*                        3-20-96  3:17:22 PM                            *
*************************************************************************
*                                                                       *
*   alyzed by:                3/21/96     Reviewed by:        3/21/96  *
*************************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027840-03
Lab Sample ID : 60019911

Sample Description : MARINELLI SOIL SAMPLE
Sample Type : Solid
Sample Geometry : 1SMAR
Sample Quantity : 932.000 gram
Sample Date/Time : 3-12-96 9:44:00 AM
Acquire Start Date : 3-20-96 2:14:33 PM
Detector Name : LAB01
Elapsed Live Time : 3600 seconds
Elapsed Real Time : 3602 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	7.14E-01	6.78E-01	1.06
TH-234	6.57E-01	2.38E-01	3.03E-01
RA-226	1.13	3.78E-01	4.98E-01
PB-214	5.05E-01	8.74E-02	6.17E-02
BI-214	4.64E-01	8.58E-02	5.83E-02
TH-232	5.72E-01	2.81E-01	1.75E-01
RA-228	5.98E-01	9.47E-02	1.68E-01
AC-228	5.32E-01	1.24E-01	1.12E-01
TH-228	4.61E-01	3.73E-01	5.80E-01
RA-224	Not Detected	--------	0.00
PB-212	5.43E-01	9.56E-02	2.99E-02
BI-212	5.71E-01	3.14E-01	4.59E-01
TL-208	5.00E-01	9.76E-02	7.60E-02
U-235	1.00E-01	1.54E-01	1.74E-01
TH-231	Not Detected	--------	1.46
PA-231	Not Detected	--------	1.22
TH-227	Not Detected	--------	3.29E-01
RA-223	Not Detected	--------	1.60E-01
RN-219	Not Detected	--------	3.23E-01
PB-211	Not Detected	--------	7.78E-01
TL-207	Not Detected	--------	1.26E+01
AM-241	Not Detected	--------	9.70E-02
PU-239	Not Detected	--------	2.91E+02
NP-237	Not Detected	--------	1.26E-01
PA-233	Not Detected	--------	5.20E-02
TH-229	Not Detected	--------	1.68E-01

[Summary Report] - Sample ID: 60019911

Nuclide	Activity (pCi/gram)	2S Error	MDA
AG-110m	Not Detected	--------	2.61E-02
AR-41	Not Detected	--------	1.00E+26
BA-133	Not Detected	--------	5.24E-02
BA-140	Not Detected	--------	1.46E-01
CD-109	Not Detected	--------	4.37E-01
CD-115	Not Detected	--------	7.91E-01
CE-139	Not Detected	--------	2.41E-02
CE-141	Not Detected	--------	4.72E-02
CE-144	Not Detected	--------	1.58E-01
CO-56	Not Detected	--------	3.20E-02
CO-57	Not Detected	--------	2.01E-02
CO-58	Not Detected	--------	3.08E-02
CO-60	Not Detected	--------	3.31E-02
CR-51	Not Detected	--------	2.50E-01
CS-134	Not Detected	--------	4.47E-02
CS-137	Not Detected	--------	2.97E-02
CU-64	Not Detected	--------	3.04E+05
EU-152	Not Detected	--------	2.05E-01
EU-154	Not Detected	--------	1.68E-01
EU-155	Not Detected	--------	8.52E-02
FE-59	Not Detected	--------	7.54E-02
GD-153	Not Detected	--------	6.62E-02
HG-203	Not Detected	--------	2.92E-02
I-131	Not Detected	--------	4.71E-02
IN-115m	Not Detected	--------	1.03E+12
IR-192	Not Detected	--------	2.65E-02
K-40	1.22E+01	1.74	3.13E-01
LA-140	Not Detected	--------	9.69E-01
MN-54	Not Detected	--------	1.30E-02
MN-56	Not Detected	--------	1.00E+26
MO-99	Not Detected	--------	1.73
NA-22	Not Detected	--------	3.84E-02
NA-24	Not Detected	--------	2.63E+02
NB-95	Not Detected	--------	7.36E-01
ND-147	Not Detected	--------	2.96E-01
NI-57	Not Detected	--------	2.02
BE-07	Not Detected	--------	2.37E-01
RU-103	Not Detected	--------	2.55E-02
RU-106	Not Detected	--------	2.43E-01
SB-122	Not Detected	--------	3.06E-01
SB-124	Not Detected	--------	2.58E-02
SB-125	Not Detected	--------	7.36E-02
SC-46	Not Detected	--------	5.28E-02
SR-85	Not Detected	--------	3.73E-02
TA-182	Not Detected	--------	1.52E-01
TA-183	Not Detected	--------	2.47E-01
TE-132	Not Detected	--------	1.30E-01
TL-201	Not Detected	--------	4.16E-01
V-48	Not Detected	--------	4.48E-02
XE-133	Not Detected	--------	8.67E-01
Y-88	Not Detected	--------	2.77E-02
ZN-65	Not Detected	--------	9.56E-02
ZR-95	Not Detected	--------	5.82E-02

```
*********************************************************************
*                    Sandia National Laboratories                   *
*    Radiation Protection Sample Diagnostics Program [869 Laboratory]*
*                      3-20-96  1:47:07 PM                          *
*********************************************************************
*                                                                   *
   nalyzed by: RJ Preston  3/20/96  Reviewed by:  3/21/96          *
*********************************************************************
```

Customer : J.PEACE/E.RANKIN (7585/SMO)
Customer Sample ID : 027841-03
Lab Sample ID : 60019912

Sample Description : MARINELLI SOIL SAMPLE
Sample Type : Solid
Sample Geometry : 1SMAR
Sample Quantity : 894.000 gram
Sample Date/Time : 3-12-96 9:53:00 AM
Acquire Start Date : 3-20-96 12:44:12 PM
Detector Name : LAB01
Elapsed Live Time : 3600 seconds
Elapsed Real Time : 3603 seconds

Comments:

****

Nuclide	Activity (pCi/gram)	2S Error	MDA
U-238	7.53E-01	6.62E-01	1.03
TH-234	Not Detected	--------	3.19E-01
RA-226	1.12	5.04E-01	7.35E-01
PB-214	4.52E-01	8.02E-02	5.81E-02
BI-214	4.48E-01	8.45E-02	5.96E-02
TH-232	6.21E-01	3.03E-01	1.79E-01
RA-228	4.63E-01	3.05E-01	1.59E-01
AC-228	4.89E-01	1.18E-01	1.08E-01
TH-228	7.79E-01	4.54E-01	6.80E-01
RA-224	Not Detected	--------	0.00
PB-212	5.66E-01	1.05E-01	3.18E-02
BI-212	7.22E-01	2.86E-01	3.74E-01
TL-208	4.79E-01	9.58E-02	7.70E-02
U-235	Not Detected	--------	1.76E-01
TH-231	Not Detected	--------	1.49
PA-231	Not Detected	--------	1.29
TH-227	Not Detected	--------	3.39E-01
RA-223	Not Detected	--------	1.65E-01
RN-219	Not Detected	--------	3.44E-01
PB-211	Not Detected	--------	7.79E-01
TL-207	Not Detected	--------	1.32E+01
AM-241	Not Detected	--------	1.01E-01
PU-239	Not Detected	--------	2.97E+02
NP-237	Not Detected	--------	1.30E-01
PA-233	Not Detected	--------	5.19E-02
TH-229	Not Detected	--------	1.70E-01

[Summary Report] - Sample ID: 60019912

Nuclide	Activity (pCi/gram)	2S Error	MDA	
AG-110m	Not Detected	--------	2.80E-02	
AR-41	Not Detected	--------	1.00E+26	
BA-133	Not Detected	--------	5.26E-02	
BA-140	Not Detected	--------	1.55E-01	
CD-109	Not Detected	--------	4.53E-01	
CD-115	Not Detected	--------	7.72E-01	
CE-139	Not Detected	--------	2.42E-02	
CE-141	Not Detected	--------	4.75E-02	
CE-144	Not Detected	--------	1.58E-01	
CO-56	Not Detected	--------	3.18E-02	
CO-57	Not Detected	--------	2.05E-02	
CO-58	Not Detected	--------	3.33E-02	
CO-60	Not Detected	--------	3.61E-02	
CR-51	Not Detected	--------	2.47E-01	
CS-134	Not Detected	--------	4.58E-02	
CS-137	Not Detected	--------	3.10E-02	
CU-64	Not Detected	--------	2.80E+05	
EU-152	Not Detected	--------	2.23E-01	
EU-154	Not Detected	--------	1.64E-01	
EU-155	Not Detected	--------	8.76E-02	
FE-59	Not Detected	--------	7.77E-02	
GD-153	Not Detected	--------	6.78E-02	
HG-203	Not Detected	--------	2.90E-02	
I-131	Not Detected	--------	5.12E-02	
IN-115m	Not Detected	--------	7.96E+11	
IR-192	Not Detected	--------	2.58E-02	
K-40	1.40E+01	1.98	2.90E-01	
LA-140	Not Detected	--------	8.57E-01	
MN-54	Not Detected	--------	3.44E-02	
MN-56	Not Detected	--------	1.00E+26	
MO-99	Not Detected	--------	1.80	
NA-22	Not Detected	--------	4.25E-02	
NA-24	Not Detected	--------	2.45E+02	
~~NB-95~~	~~1.42E-01~~	~~1.03E-01~~	2.82E-01	not detected 3/21/96
ND-147	Not Detected	--------	3.08E-01	
NI-57	Not Detected	--------	2.03	
BE-07	Not Detected	--------	2.31E-01	
RU-103	Not Detected	--------	2.98E-02	
RU-106	Not Detected	--------	2.62E-01	
SB-122	Not Detected	--------	3.00E-01	
SB-124	Not Detected	--------	3.00E-02	
SB-125	Not Detected	--------	7.61E-02	
SC-46	Not Detected	--------	5.25E-02	
SR-85	Not Detected	--------	3.59E-02	
TA-182	Not Detected	--------	1.52E-01	
TA-183	Not Detected	--------	2.57E-01	
~~TE-132~~	~~6.19E-02~~	~~6.23E-02~~	9.86E-02	not detected 3/21/96
TL-201	Not Detected	--------	4.06E-01	
V-48	Not Detected	--------	4.61E-02	
XE-133	Not Detected	--------	8.68E-01	
Y-88	Not Detected	--------	2.63E-02	
ZN-65	Not Detected	--------	1.00E-01	
ZR-95	Not Detected	--------	5.69E-02	

```
*********************************************************************
* Sandia Radioactive Sample Diagnostics Program              3-13-1996 *
*********************************************************************
LSC Analysis Program - version 5.1

Batch Number        : 63005501
Count Protocol      : 15
Client              : OLDEWAGE (7714) ER SITE 76 RELEASE 3/12   63005501
Laboratory ID       : 6600-1
Count Date          : 13-Mar-96
Protocol Name       : H3AB -- SWIPE
Region of Interest  : 0-12
Count Time          : 5.0 minutes
Background cpm      : 11.40 +- 6.78
Background tSIE     : 429.3
Background Eff      : 0.354
Systematic Error    : 12.90%
Sample Aliquot      : 1.000 f

H-3 MDA =  2.14E+01 dpm/f
H-3 CL  =  9.95E+00 dpm/f

H-3 Efficiency = 0.9477 - exp(-0.00147*tSIE^0.9686)

Flag Description:

>CL : Result > 2-sigma Error  and  Result > Critical Level.
<CL : Result < 2-sigma Error  and  Result < Critical Level.
@CL : Result < 2-sigma Error  and  Result > Critical Level.
^CL : Result > 2-sigma Error  and  Result < Critical Level.
```

Analyzed by: _____ Reviewed by: _____ 3/13/96

S#	RPSD ID	Client ID	cpm	Error	tSIE	Eff	H-3 Activity dpm/f	Error	Flag
2	001	001	1.08E+01	8.08E+00	379	0.318	-1.89E+00	4.70E+01	<CL
3	002	002	1.18E+01	6.66E+00	378	0.317	1.26E+00	4.25E+01	<CL
4	003	003	1.86E+01	7.28E+00	367	0.309	2.33E+01	4.86E+01	@CL
5	004	004	1.66E+01	7.34E+00	373	0.313	1.66E+01	4.72E+01	@CL
6	005	005	1.18E+01	1.08E+01	370	0.311	1.29E+00	5.66E+01	<CL
7	006	006	1.32E+01	8.64E+00	361	0.304	5.92E+00	5.15E+01	<CL
8	007	007	1.00E+01	9.78E+00	364	0.307	-4.57E+00	5.46E+01	<CL
9	008	008	1.42E+01	8.05E+00	419	0.347	8.08E+00	4.38E+01	<CL
10	009	009	1.30E+01	8.97E+00	365	0.307	5.21E+00	5.20E+01	<CL
11	010	010	1.56E+01	9.78E+00	355	0.300	1.40E+01	5.71E+01	@CL
12	011	011	2.26E+01	8.70E+00	356	0.300	3.73E+01	5.64E+01	@CL
13	012	012	2.30E+01	9.76E+00	357	0.301	3.86E+01	6.00E+01	@CL

S#3-76-0324 Page 3 of 4

```
*****************************************************************
* Sandia Radioactive Sample Diagnostics Program          3-13-1996 *
*****************************************************************
LSC Analysis Program - version 5.1

Batch Number        : 63005501
Count Protocol      : 15
Client              : OLDEWAGE (7714) ER SITE 76 RELEASE 3/12   63005501
Laboratory ID       : 6600-1
Count Date          : 13-Mar-96
Protocol Name       : H3AB -- SWIPE
Region of Interest  : 20-600
Count Time          : 5.0 minutes
Background cpm      : 13.20 +- 3.25
Background tSIE     : 429.3
Background Eff      : 0.993
Systematic Error    :  8.90%
Sample Aliquot      : 1.000 f

Alpha MDA =  8.17E+00 dpm/f
Alpha CL  =  3.81E+00 dpm/f

Alpha Efficiency = 0.9937 - exp(-0.06849*tSIE^0.7874)

Flag Description:

>CL : Result > 2-sigma Error  and  Result > Critical Level.
<CL : Result < 2-sigma Error  and  Result < Critical Level.
@CL : Result < 2-sigma Error  and  Result > Critical Level.
@CL : Result > 2-sigma Error  and  Result < Critical Level.
```

S#	RPSD ID	Client ID	cpm	Error	tSIE	Eff	Alpha Activity dpm/f	Error	Flag
2	001	001	1.46E+01	3.42E+00	379	0.993	1.41E+00	6.84E+00	<CL
3	002	002	2.06E+01	4.06E+00	378	0.993	7.45E+00	8.02E+00	@CL
4	003	003	1.68E+01	3.67E+00	367	0.993	3.63E+00	7.29E+00	<CL
5	004	004	1.88E+01	3.88E+00	373	0.993	5.64E+00	7.68E+00	@CL
6	005	005	1.76E+01	3.75E+00	370	0.993	4.43E+00	7.45E+00	@CL
7	006	006	1.64E+01	3.62E+00	361	0.993	3.22E+00	7.21E+00	<CL
8	007	007	1.66E+01	3.64E+00	364	0.993	3.42E+00	7.25E+00	<CL
9	008	008	1.94E+01	3.94E+00	419	0.993	6.24E+00	7.79E+00	@CL
10	009	009	1.72E+01	3.71E+00	365	0.993	4.03E+00	7.37E+00	@CL
11	010	010	1.64E+01	3.62E+00	355	0.993	3.22E+00	7.21E+00	<CL
12	011	011	1.46E+01	3.42E+00	356	0.993	1.41E+00	6.84E+00	<CL
13	012	012	1.84E+01	3.84E+00	357	0.993	5.24E+00	7.60E+00	@CL

S# 3-5 03 21 Pg 4 of 4

```
*****************************************************************
* Sandia Radioactive Sample Diagnostics Program          3-13-1996 *
*****************************************************************
LSC Analysis Program - version 5.1

Batch Number        : 63005501
Count Protocol      : 15
Client              : OLDEWAGE (7714) ER SITE 76 RELEASE 3/12   63005501
Laboratory ID       : 6600-1
Count Date          : 13-Mar-96
Protocol Name       : H3AB -- SWIPE
Region of Interest  : 12-2000
Count Time          : 5.0 minutes
Background cpm      : 24.80 +- 4.45
Background tSIE     : 429.3
Background Eff      : 0.897
Systematic Error    :  6.30%
Sample Aliquot      : 1.000 f

Beta MDA =  1.22E+01 dpm/f
Beta CL  =  5.79E+00 dpm/f

Beta Efficiency = 0.8970 - exp(-0.03002*tSIE^0.9335)

Flag Description:

>CL : Result > 2-sigma Error  and  Result > Critical Level.
<CL : Result < 2-sigma Error  and  Result < Critical Level.
@CL : Result < 2-sigma Error  and  Result > Critical Level.
@CL : Result > 2-sigma Error  and  Result < Critical Level.
```

S#	RPSD ID	Client ID	cpm	Error	tSIE	Eff	Beta Activity dpm/f	Error	Flag
2	001	001	2.22E+01	4.21E+00	379	0.897	-2.90E+00	9.85E+00	<CL
3	002	002	2.58E+01	4.54E+00	378	0.897	1.12E+00	1.01E+01	<CL
4	003	003	2.78E+01	4.71E+00	367	0.896	3.35E+00	1.04E+01	<CL
5	004	004	2.58E+01	4.54E+00	373	0.896	1.12E+00	1.01E+01	<CL
6	005	005	3.28E+01	5.12E+00	370	0.896	8.92E+00	1.12E+01	@CL
7	006	006	2.52E+01	4.49E+00	361	0.896	4.46E-01	1.00E+01	<CL
8	007	007	2.56E+01	4.53E+00	364	0.896	8.92E-01	1.01E+01	<CL
9	008	008	3.46E+01	5.26E+00	419	0.897	1.09E+01	1.15E+01	@CL
10	009	009	2.62E+01	4.58E+00	365	0.896	1.56E+00	1.02E+01	<CL
11	010	010	2.90E+01	4.82E+00	355	0.896	4.69E+00	1.06E+01	<CL
12	011	011	2.98E+01	4.88E+00	356	0.896	5.58E+00	1.08E+01	<CL
13	012	012	3.38E+01	5.20E+00	357	0.896	1.00E+01	1.14E+01	@CL

INFORMATION COPY

Survey Number: 3-96-0321

RADIOLOGICAL SURVEY FORM

Location	Requester/Dept.	Date	Time	Duration
ER Site 76	J. Peace / 7585	3/12/96	1050	N/A

Purpose	Request #	RWP #
Release Samples	N/A	N/A

Instrument and Probe Type and Serial Number	Surveyor(s) Printed Name	Surveyor(s) Signature
ASP-1 W/HP-260 #2824	H. Oldewage	[signature]

#	Sample # Item Description	BETA-GAMMA CONTAMINATION Counting Data Attached ☒Yes ☐No % Eff. 20 /Isotope Cs 137 cpm	Bkg. cpm	dpm/100 cm² (1)	(2) T/R/F	ALPHA CONTAMINATION Counting Data Attached ☒Yes ☐No % Eff. N/A /Isotope N/A cpm	Bkg. cpm	dpm/100 cm² (1)	(2) T/R/F	RADIATION SURVEY Bkg. N/A mrem/hr (3)	Distance
1	27830	80	80	ND	T						
2	27831	80	80	ND	T						
3	27832	80	80	ND	T						
4	27833	80	80	ND	T						
5	27834	80	80	ND	T						
6	27835	80	80	ND	T						
7	27836	80	80	ND	T						
8	27837	80	80	ND	T						
9	27838	80	80	ND	T						
10	27839	80	80	ND	T						
11	27840	80	80	ND	T						
12		80	80	ND	T						

N/A

Note (1): If area other than 100 cm², record as dpm/probe, or dpm/LAW. Note (2): Total/Removable/Fixed. Note (3): Indicate type, if other than gamma (i.e. n or β).

Remarks:

Reviewed by:

RPOP-008.a

Attachment 9F

Table 6-3

Comparison of Background Concentrations for Metals in Surface Soils at KAFB with National Uranium Resource Evaluation Program Data from USGS[a]

Constituent of Concern	Source	Sample Group	n[b]	Range	Mean[c]	Median	95th Percentile/ UTL[d]
				(mg/Kg)			
Aluminum	NURE	Albuquerque 1° by 2° quadrangle	1,538	16,030–101,200	49,821	50,690	69,957
Antimony	NURE	Albuquerque 1° by 2° quadrangle	1,536	<0.5–9	<1.00	<1.00	1.5
	SNL/NM-KAFB[e]	North/Tijeras/ Southwest/CTF/ Offsite Area Group	1,370	0.05–44.9	2.1	<6.0	3.9
Barium	NURE	ABQ 1° by 2° quadrangle	1,538	<71–3,598	556	576	959
	SNL/NM-KAFB[e]	North/Offsite Area Group	191	0.38–330	95	100	200
		Tijeras Area Group	36	37.9–564	150	156	**534**
		Southwest/CTF Area Group	400	0.086–232	43	59.0	130
Beryllium	NURE	Albuquerque 1° by 2° quadrangle	1,538	<0.5–11	1.62	2.00	3
	SNL/NM-KAFB[e]	North/Tijeras Area Group	1,394	0.01–1.8	0.4	0.430	0.80
		Southwest/CTF/ Offsite Area Group	887	0.10–1.6	0.3	0.34	0.65
Cadmium	NURE	Albuquerque 1° by 2° quadrangle	1,538	<5.0–14	<5.0	<5.0	<5.0
	SNL/NM-KAFB[e]	North/Southwest/ CTF/Offsite Area Group	502	0.1–7.1	0.3	<0.5	1.6
		Tijeras Area Group	24	0.255–4.6	1.0	1.00	**5.1**
Chromium (total)	NURE	Albuquerque 1° by 2° quadrangle	1,535	<4–157	31.8	32.0	58
	SNL/NM-KAFB[e]	North/Southwest/ CTF/Offsite Area Group	538	0.004–240	6	6.30	17.3
		Tijeras Area Group	28	4.2–21.6	11.8	12.35	**21.8**
Cobalt	NURE	Albuquerque 1° by 2° quadrangle	1,538	1.3–27	6.77	6.90	11.1
	SNL/NM-KAFB[e]	North/Offsite Area Group	141	2.0–11.8	4.1	4.4	7.1
		Tijeras Area Group	35	2.0–12.3	5.8	5.8	11.6
		Southwest/CTF Area Group	216	0.50–7.8	2.8	2.95	5.2

Refer to footnotes at end of table.

Table 6-3 *(Continued)*

Comparison of Background Concentrations for Metals in Surface Soils at KAFB with National Uranium Resource Evaluation Program Data from USGS[a]

Constituent of Concern	Source	Sampling Location	n[b]	Range	Mean[c]	Median	95th Percentile/ UTL[d]
				(mg/Kg)			
Copper	NURE	Albuquerque 1° by 2° quadrangle	1,538	<5–575	20.0	21.0	38
	SNL/NM-KAFB[e]	North Area Group	107	1.5–74.1	10	10.1	25.5
		Tijeras Area Group	25	5.9–24.7	17.1	16.7	**27.7**
		Southwest/Offsite Area Group	319	0.50–44	6	5.9	15.4
Lead	NURE	Albuquerque 1° by 2° quadrangle	1,538	<2.5–201	9.5	11.0	28
	SNL/NM-KAFB[e]	North/Tijeras Area Group	152	0.25–101	12	13.0	**68**
		Southwest/CTF/ Offsite Area Group	395	0.005–104	7	7.8	21.4
Manganese	NURE	Albuquerque 1° by 2° quadrangle	1,538	61–2,678	360	369	831
Nickel	NURE	Albuquerque 1° by 2° quadrangle	1,538	<7.5–742	9.5	7.5	26
	SNL/NM-KAFB[e]	North/Offsite Area Group	1,087	1.2–248	7	7.0	25.4
		Tijeras Area Group	372	0.13–232	12	11.50	52.5
		Southwest/CTF Area Group	1,016	0.5–70.2	5.8	6.00	11.5
Silver	NURE	Albuquerque 1° by 2° quadrangle	1,538	<2.5–43	<2.5	<2.5	2.5
	SNL/NM-KAFB[e]	North/Southwest/ CTF/Offsite Area Group	539	0.0015–4.0	0.4	<1	2.0
Thallium	NURE	Albuquerque 1° by 2° quadrangle	1,538	2.1–83.5	10.1	9.9	19.7
	SNL/NM-KAFB[e]	North/Tijeras/ Southwest/CTF/ Offsite Area Group	1,284	0.0011–7.1	0.3	<0.5	<1.1
Tin	NURE	Albuquerque 1° by 2° quadrangle	1,538	<5–44	<5.00	<5.00	5
	SNL/NM-KAFB[e]	North/Tijeras/CTF/ Offsite Area Group	137	1.0–122[f]	<12.6	<51.5	<122

Refer to footnotes at end of table.

Table 6-3 *(Continued)*

Comparison of Background Concentrations for Metals in Surface Soils at KAFB with National Uranium Resource Evaluation Program Data from USGS[a]

Constituent of Concern	Source	Sampling Location	n[b]	Range	Mean[c]	Median	95th Percentile/ **UTL**[d]
				(mg/Kg)			
Uranium (Total)	NURE	Albuquerque 1° by 2° quadrangle	1,538	0.63–28.52	3.28	3.09	6.24
	SNL/NM-KAFB[e]	North/Southwest/ Tijeras/CTF/Offsite Area Group	389	0.005–4.66	1.00	2.2	3.42
Vanadium	NURE	Albuquerque 1° by 2° quadrangle	1,538	<4–327	53.6	54.0	117
	SNL/NM-KAFB[e]	North/Tijeras Area Group	159	6.9–61.8	24.5	25.0	**47.2**
		Southwest/CTF/Offsite Area Group	243	0.50–31.5	12.3	12.1	20.4
Zinc	NURE	Albuquerque 1° by 2° quadrangle	1,516	<4–557	41.7	49.0	107.1
	SNL/NM-KAFB[e]	North Area Group	1,021	7.2–281	33	33.7	82.4
		Tijeras Area Group	369	0.47–436	46	44.8	117
		Southwest/CTF/ Offsite Area Group	854	0.50–230	24	22.75	62

[a]Source: U.S. Geological Survey (USGS), 1994, "National Geochemical Database: National Uranium Resource Evaluation Data for the Conterminous United States," USGS Digital Data Series Dds-18-a.
[b]Sample size.
[c]Geometric means are provided for all COCs that were lognormally or nonparametrically distributed. Arithmetic means are provided for two COCs (barium, Tijeras; and chromium, Tijeras) that were normally distributed.
[d]The 95th UTL (in bold) is provided for those COCs that have normal or lognormal distributions, while the 95th percentile is provided for those that have nonparametric distributions.
[e]Indicates values obtained from this current joint SNL/NM-KAFB Background Study.
[f]Detection Limit Range.
mg/Kg = milligrams per kilogram.
NURE = National Uranium Resource Evaluation Program.
USGS = U.S. Geological Survey.
UTL = upper tolerance limit.

Attachment 11

Summary of Laboratory and Field QC Results
Mixed Waste Landfill
July 1992
Groundwater Quality Data

Reference: Report on Semiannual Groundwater Sampling at the Mixed Waste Landfill, Sandia National Laboratories/New Mexico, July 1992.

Dup. Analytical values ranged from 0.496 ±0.409 pCi/L (MWL-MW2) to 1.23 ±0.68 pCi/L (MWL-BW1 Dup.). Strontium-90 was detected in three samples: MWL-MW1 at 1.07 ±0.42 pCi/L, MWL-MW2 at 0.464 ±0.411 pCi/L, and MWL-BW1 Dup. at 0.701 ±0.406 pCi/L.

In addition to the MWL samples, two background samples were collected during this sampling event: BG-NWTA3 and the burn site. The analytical results are presented in Table 8. Gross alpha values for BG-NWTA3 and the burn site were 8.93 ±4.07 pCi/L and 7.80 ±4.93 pCi/L, respectively. Gross beta values for BG-NWTA3 and burn site were 6.03 ±1.67 pCi/L and 5.90 ±3.54 pCi/L, respectively. In addition to the standard suite of isotopes analyzed in the MWL ground water samples, isotopic uranium was also analyzed in these samples. This data is included in Table 8 for completeness.

4.0 Quality Control

Quality control (QC) samples were prepared both in the field and in the laboratory for analysis to determine the precision and accuracy of the methods used and to detect any contamination that may have occurred during sampling and analysis.

4.1 Field Quality Control

Field QC samples (environmental duplicate and field blank samples) were and submitted with environmental ground-water samples for analysis in accordance with QC procedures specified in the MWL Sampling and Analysis Plan.

4.1.1 Field Blanks

Field blank samples were prepared by pouring deionized water into prepared sample containers at the wellhead to simulate the transfer of environmental samples from sample collection equipment to the sample container. Two field blank samples were collected for VOC analysis with the July 1992 bailer samples, and one full-suite field blank was collected to be analyzed with the environmental samples. Field blanks were collected to assess any contamination that may have been introduced by sample handling in the field from ambient field conditions. No VOCs were detected in the field blank samples from the bailer equipment. No chemical parameters were detected in the full-suite field blank, and polonium-210 (0.937 ±0.590 pCi/L) was the only radionuclide parameter detected.

4.1.2 Equipment Blanks

After the annual maintenance inspection and decontamination was performed, equipment blanks were collected from each pump and tubing bundle and analyzed for nonradiologic parameters. Equipment blanks were collected to confirm the adequacy of the decontamination process. Phenolics (0.022 mg/L) were detected in the sample from pump MWL-BW1. Pump MWL-MW3 had detectable total aluminum (0.33 mg/L), total and dissolved calcium (0.43 mg/L and 0.30 mg/L, respectively), total chromium (0.072 mg/L), total iron (1.6 mg/L), and dissolved magnesium (0.31 mg/L). Pump MWL-MW1 had detectable dissolved copper (0.027 mg/L), and pump MWL-BW1 had detectable dissolved calcium (0.25 mg/L), dissolved iron (0.12 mg/L), and dissolved silver (0.011 mg/L).

4.1.3 Trip Blanks

One laboratory-prepared trip blank was sent with each shipment that contained samples for VOC analysis. Trip blanks were prepared and analyzed to measure contamination that might have occured during sample shipment and handling. No VOCs were detected in any trip blanks accompanying the samples.

4.1.4 Duplicate Environmental Samples

An environmental duplicate sample was collected from well MWL-BW1 and analyzed for all analytical parameters. The duplicate sample was collected immediately after the original environmental sample in order to reduce variability due to time and/or sampling mechanics. The purpose of the duplicate environmental sample was to evaluate the overall precision of the sampling and analytical methods used.

Relative percent difference (RPD) calculations were performed to assess the precision associated with the sampling and analysis process. Results of environmental duplicate sample analyses and calculated RPD values are summarized in Table 10. Calculations of RPD for radionuclide fractions were done, although control limits are not specified in the MWL Sampling and Analysis Plan. Only the values of radium-226 and total zinc were elevated suggesting the overall precision associated with the sampling and analysis process is acceptable.

4.2 Laboratory Quality Control

Internal laboratory QC analyses performed included blank, laboratory control samples, and matrix spike analyses. Laboratory QC samples were concurrently prepared and analyzed

with the associated SNL sample. QC measurements are discussed in the following subsections.

4.2.1 Blank Analyses

Laboratory method blanks were analyzed to identify any contamination resulting from laboratory equipment or reagents. Target constituents were not detected in the method blanks.

4.2.2 Laboratory Control Sample and Matrix Spike Analyses

Laboratory control samples (LCS) were analyzed concurrently with the submitted environmental samples to measure the accuracy of the analytical method. In addition, a matrix spike sample was prepared from well MWL-MW1 and analyzed in duplicate to assess any matrix effect on the analytical method. Results of LCS analyses and matrix spike duplicate analyses, bias (as percent recovery), precision (as RPD), and laboratory-assigned acceptance limits are contained in the analytical reports (Appendix F). Review of laboratory QC data indicates the results for bias, precision, and contamination are within laboratory acceptance criteria and within acceptance limits specified in the MWL Sampling and Analysis Plan.

4.2.3 Holding Times

Holding times for samples submitted for required analyses were within the holding time specified in the MWL Sampling and Analysis Plan.

4.3 Nonconformance and Corrective Action

The MWL Sampling and Analysis Plan (Rev. 0.0) requires that three borehole volumes be purged from each well prior to sampling. However, in the case of low-yielding wells, it is permissible to purge once to dryness, allow the well to recover, and then sample the ground water (EPA, 1986b).

MWL-MW2 and MWL-MW3 have such low yields that they can purge to dryness before stability of field measurements can be achieved. A complete record of purge parameters is included in this report, and the last three measurements prior to sampling fall within the limits dictated in Section 2.3 of the MWL Sampling and Analysis Plan.

5.0 Summary and Conclusions

During the July 1992 sampling at the MWL, samples were collected by dedicated pumping systems in accordance with the MWL Sampling and Analysis Plan. In addition, at the request of the project leader, samples were collected by bailer before well purging for VOC analyses. All four wells were purged to dryness, allowed to recover, then sampled. Ground-water samples from MWL wells were analyzed for all RCRA contamination indicator parameters (40 CFR 265, Subpart F), VOCs, and selected radionuclides. A summary of analytes measured above laboratory reporting limits is given in Tables 11 and 12.

Chloride and sulfate were detected in all of the MWL samples. No phenolic compounds or specific volatile organic compounds were detected in any MWL samples at laboratory detection limits ranging from 10 to 100 µg/L. TOC was measured in two samples and TOC was not detected in any MWL sample.

Total and dissolved calcium, barium, magnesium, nickel, sodium, and zinc were all detected in MWL samples. Total iron was detected in all MWL samples except for MWL-BW1 Duplicate, total chromium was detected in two samples and total aluminum was detected in one sample. Total mercury was detected in one sample at 0.00070 mg/L.

Gross alpha and beta activity was detected in all samples. Radium-226 was detected in three samples and radium-228 was detected in one sample. Americium-241 and iron-55 were detected in one sample at 0.185±0.160 pCi/L. Iron-55 was detected in one sample. Polonium-210 was detected in all of the MWL samples except for MWL-BW1 Duplicate. Strontium-90 was detected in three samples. Tritium was not measured in any samples above instrument background.

Measured concentrations of inorganic and organic analytes regulated by the State and EPA are below their corresponding maximum contaminant levels (MCL) for drinking water standards (40 CFR 141) and below the Maximum Concentration Constituents for Ground Water Protection specified in 40 CFR.94. All other target analytes were not detected at reporting limits well below the regulatory threshold values. Ignoring any contribution of radioactivity contributed from radon and uranium, average gross alpha particle activities are below the state and federal MCLs of 15 pCi/L for each monitoring well and combined radium-226/228 is below the MCL of 5 pCi/L. Tritium values are well below the 20,000 pCi/L MCL.

The DOE (1990) DCG indicate an action level of 0.6 pCi/L for gross alpha but requires subtraction of contribution of radon and uranium. Gross alpha values detected in this sampling event exceed 0.6 pCi/L, however, the contribution of uranium isotopes and radon have not been specifically evaluated for this report. Uranium isotopes contributed significantly to the gross alpha count during the September 1990 event. No action level is listed for gross beta. DCGs indicate an action level of 4 pCi/L for radium-226 and radium-228, 1.2 pCi/L for americium-241, 8,000 pCi/L for iron-55, 3.2 pCi/L for polonium-210 and, 40 pCi/L for strontium-90. No analytical results, other than gross alpha measurements were reported above DCG action levels.

Analytical and field quality control measures were implemented as required by the MWL Sampling and Analysis Plan and demonstrated control of laboratory activities field and data validity for the July 1992 sampling.

6.0 References

IT Corporation (IT), 1991, "Report on Background Ground-Water Sampling at the Mixed Waste Landfill, Sandia National Laboratories, Albuquerque, September 1990," draft, IT Corporation, Albuquerque, New Mexico.

Sandia National Laboratories, Albuquerque (SNL), 1990a, "Mixed Waste Landfill Sampling and Analysis Plan, Sandia National Laboratories Ground-Water Monitoring Program," Rev. 0.0, Sandia National Laboratories, Albuquerque, New Mexico.

Sandia National Laboratories, Albuquerque (SNL), 1990b, "A Technical Procedure for the Measurement of Static Water Levels in Ground-Water Monitoring Wells," *SOP 90-02*, Sandia National Laboratories, Albuquerque, New Mexico.

U.S. Department of Energy (DOE), 1990, "Radiation Protection of the Public and the Environment," *DOE Order 5400.5*, Figure III-1, U.S. Department of Energy, Washington, D.C.

U.S. Environmental Protection Agency (EPA), 1986a, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," *EPA-SW-846*, 2nd ed., U.S. Environmental Protection Agency, Washington, D.C.

U.S. Environmental Protection Agency (EPA), 1986b, "RCRA Ground-Water Monitoring Technical Enforcement Guidance Document," U.S. Environmental Protection Agency, Washington, D.C.

Table 10

Summary of the Duplicate Environmental Analyses for the Mixed Waste Landfill Sandia National Laboratories, New Mexico

July 1992

Parameter[a]	+/- 2 Sigma mg/L	SNLA010341 MWL-BW1 Environmental Sample Results (R_1) mg/L	SNLA010345 MWL-BW1 Duplicate Sample Results (R_2) mg/L	RPD[c] (%)
General Inorganics				
Chloride	NA	26.5	26.2	1
Sulfate	NA	42.8	42.5	1
Total TAL Metals				
Barium	NA	0.085	0.087	2
Calcium	NA	52.5	51.2	3
Iron	NA	0.23	ND	NC
Magnesium	NA	17.8	17.8	0
Sodium	NA	49.0	51.3	5
Zinc	NA	0.055	0.041	29
Dissolved TAL Metals				
Barium	NA	0.080	0.084	5
Calcium	NA	52.4	51.5	2
Magnesium	NA	17.7	17.9	1
Sodium	NA	52.6	51.3	3

Refer to footnotes at end of table.

Table 10 *(Continued)*

Summary of the Duplicate Environmental Analyses for the Mixed Waste Landfill Sandia National Laboratories, New Mexico

July 1992

Parameter[a]	+/- 2 Sigma[b] (pCi/L)	SNLA010346 MWL-BW1 Environmental Sample Results (R_1) (pCi/L)	SNLA010350 MWL-BW1 Duplicate Sample Results (R_2) (pCi/L)	RPD[c] (%)
Radiological				
Gross Alpha	5.5[d]	12.3[d]	14.4[d]	16
Gross Beta	2.0[d]	6.7[d]	6.4[d]	5
Radium-226	0.120	0.184	0.943	135
Radium-228	0.957	ND	0.971	NC
Polonium-210	0.247	ND	1.23	NC
Strontium-90	0.406	ND	0.701	NC

[a]Parameters with nondetects in both the Environmental and Duplicate samples are not listed.
[b]Overall error, lowest +/- 2 Sigma of the two samples.
[c]RPD = relative percent difference, which is calculated with the following equation:

$$RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$$

[d]Average of quadruplicate analysis.
NA = Not applicable.
ND = Not detected.
NC = Not calculable.

Summary of Laboratory and Field QC Results
Mixed Waste Landfill
January 1992
Groundwater Quality Data

Reference: Report on Semiannual Groundwater Sampling at the Mixed Waste Landfill, Sandia National Laboratories/New Mexico, January 1992.

Radium-228 was detected in the unfiltered fractions of all wells from 0.500 ±0.434 pCi/L to 0.650 ±0.452 pCi/L; and in the filtered fractions of all wells from 0.445 ± 0.429 pCi/L to 0.992 ±0.526 pCi/L.

Gross alpha and gross beta samples were analyzed in quadruplicate fractions, both unfiltered and filtered. Unfiltered gross alpha values ranged from 4.43 ±2.45 pCi/L to 11.9 ±3.6 pCi/L; unfiltered gross beta values ranged from 4.12 ±1.49 pCi/L to 8.17 ±1.87 pCi/L. Filtered gross alpha values ranged from 1.55 ±0.878 pCi/L to 9.69 ±3.86 pCi/L; filtered gross beta values ranged from 3.50 ±1.37 pCi/L to 7.83 ±2.07 pCi/L.

The DOE (1990) DCGs indicate an action level of 3.2 pCi/L for Polonium-210, 4.0 pCi/L for radium-226, and radium-228 and 0.6 pCi/L for gross alpha, excluding uranium and radon. No action level is listed for gross beta. Certain gross alpha values from Table 7 exceed 0.6 pCi/L. Analyses for uranium isotopes have not been performed since the initial September 1990 sampling event (IT, 1991), so their contributions cannot be evaluated. Uranium isotopes contributed significantly to the gross alpha count during the September 1990 event.

4.0 Quality Control

Quality control (QC) samples were prepared both in the field and in the laboratory for analysis to determine the precision and accuracy of the methods used and to detect any contamination that may have occurred during sampling and analysis.

4.1 Field Quality Control

Field QC samples (environmental duplicate and field blank samples) collected during the ground-water sampling effort were submitted with ground-water samples for analysis in accordance with QC procedures specified in the MWL Sampling and Analysis Plan.

4.1.1 Field Blanks

The MWL Sampling and Analysis Plan requires that one field blank sample be prepared for each day when environmental VOA samples are collected; since VOA was not required in the January 1992 sampling, VOA field blanks were not required. However, one full-suite field blank sample was collected to be analyzed for all January 1992 parameters. The field blank sample was prepared by pouring deionized water into prepared sample containers at the wellhead to simulate the transfer of environmental samples from sample collection equipment

to the sample container. Field blanks are intended to assess any contamination that may be introduced by sample handling in the field and from ambient field conditions. No analytes were detected in the field blank sample.

4.1.2 Equipment Blanks

As previously described (Section 2.4), dedicated pumping equipment was used to sample wells. Because the pumps were already in place in the wells, equipment blanks were not required and were not collected.

4.1.3 Duplicate Environmental Samples

An environmental duplicate sample was collected from well MWL-BW1 and analyzed for all analytical parameters. The duplicate sample was collected immediately after the original environmental sample in order to reduce variability due to time and/or sampling mechanics. The purpose of the duplicate environmental sample is to evaluate the overall precision of the sampling and analytical methods used.

Relative percent difference (RPD) calculations were performed to assess precision. Results of environmental and duplicate sample analyses and calculated RPD values are summarized in Table 8; results indicate that sampling and analysis precision was acceptable for organic constituents. Calculations of RPD for radionuclide fractions were done, although values are not specified in the MWL Sampling and Analysis Plan. Only the values of dissolved radium-226 were significantly different.

4.2 Laboratory Quality Control

Internal laboratory QC analyses performed included blank, laboratory control samples, and matrix spike analyses.

4.2.1 Blank Analyses

Laboratory method blanks were analyzed to identify any contamination resulting from laboratory equipment or reagents. No constituents were detected in laboratory method blank samples.

4.2.2 Laboratory Control Sample and Matrix Spike Analyses

Laboratory control samples (LCS) were analyzed concurrently with the submitted environmental samples to determine the accuracy and precision of the analytical method. In

addition, a matrix spike sample was prepared from well MWL-MW1 and analyzed in duplicate to assess any matrix interference on analytical accuracy and precision. Results of LCS analyses and matrix spike duplicate analyses, accuracy (as percent recovery), precision (as RPD), and laboratory-assigned acceptance limits are contained in the analytical reports (Appendix F). Review of laboratory QC data indicates the results for accuracy and precision are within laboratory acceptance limits and within acceptance limits specified in the MWL Sampling and Analysis Plan.

4.2.3 Holding Times

Holding times for samples submitted for required analyses were within the holding time specified in the MWL Sampling and Analysis Plan.

4.3 Nonconformance and Corrective Action

The MWL Sampling and Analysis Plan (Rev. 0.0) requires that three borehole volumes be purged from each well prior to sampling. However, in the case of low-yielding wells, it is permissible to purge once to dryness, allow the well to recover, and then sample the ground water (EPA, 1986b).

MWL-MW2 and MWL-MW3 have such low yields that they can purge to dryness before stability of field measurements can be achieved. A complete record of purge parameters is included in this report, and the last three measurements prior to sampling fall within the limits dictated in Section 2.3 of the MWL Sampling and Analysis Plan.

5.0 Summary and Conclusions

During the January 1992 sampling at the MWL, samples were collected by dedicated pumping systems in accordance with the MWL Sampling and Analysis Plan. All four wells were purged to dryness, allowed to recover, then sampled. Ground-water samples from MWL wells were analyzed for all RCRA contamination indicator parameters (40 CFR 265, Subpart F), as well as selected radionuclides. A summary of detected analytes is given in Table 9.

Polonium-210 was detected in three unfiltered and one filtered samples from 0.0298 ±0.0245 pCi/L to 0.049 ±0.0363 pCi/L, radium-226 was detected in all unfiltered fractions and three filtered fractions at 0.0791 ±0.0732 pCi/L to 0.192 ±0.0767 pCi/L, and radium-228

was detected in all fractions from 0.445 ±0.429 to 0.992 ±0.5216 pCi/L.; otherwise, no radionuclides were found in any MWL samples. Gross alpha activity was detected in sample fractions at values from 1.55 ±0.878 pCi/L to 11.9 ±3.6 pCi/L; gross beta activity was measured in sample fractions from 3.50 ±1.37 pCi/L to 8.17 ±1.87 pCi/L.

All of these detected radionuclides are below the NMWQR and DOE DCG limits for each.

Analytical and field quality control measures were implemented as required by the MWL Sampling and Analysis Plan and demonstrated control of laboratory activities field and data validity for the January 1992 sampling.

6.0 References

IT Corporation (IT), 1991, "Report on Background Ground-Water Sampling at the Mixed Waste Landfill, Sandia National Laboratories, Albuquerque, September 1990," draft, IT Corporation, Albuquerque, New Mexico.

Sandia National Laboratories, Albuquerque (SNL), 1990a, "Mixed Waste Landfill Sampling and Analysis Plan, Sandia National Laboratories Ground-Water Monitoring Program," Rev. 0.0, Sandia National Laboratories, Albuquerque, New Mexico.

Sandia National Laboratories, Albuquerque (SNL), 1990b, "A Technical Procedure for the Measurement of Static Water Levels in Ground-Water Monitoring Wells," *SOP 90-02*, Sandia National Laboratories, Albuquerque, New Mexico.

U.S. Department of Energy (DOE), 1990, "Radiation Protection of the Public and the Environment," *DOE Order 5400.5*, Figure III-1, U.S. Department of Energy, Washington, D.C.

U.S. Environmental Protection Agency (EPA), 1986a, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," *EPA-SW-846*, 2nd ed., U.S. Environmental Protection Agency, Washington, D.C.

U.S. Environmental Protection Agency (EPA), 1986b, "RCRA Ground-Water Monitoring Technical Enforcement Guidance Document," U.S. Environmental Protection Agency, Washington, D.C.

Table 8

Summary of Duplicate Environmental Analyses
Sandia National Laboratories, Albuquerque
Mixed Waste Landfill

January 1992

Parameter	±2 Sigma[a]	SNLA006958 MWL-BWI Environmental Sample Result (R1)	SNLA006962 MWL-BWI Duplicate Sample Result (R2)	RPD(%)[b]	Acceptance Limit
Radionuclides			All results and overall error in pCi/L		
Polonium-210, total	0.0280[c]	**0.0298**	**0.0309**	4	NA
Radium-226, total	0.0795[c]	**0.0791**	**0.186**	81	NA
Radium-228, total	0.443[c]	**0.640**	**0.50**	25	NA
Radium-226, dissolved	0.0767[c]	ND	**0.192**	NC	NA
Radium-228, dissolved	0.502[c]	**0.565**	**0.725**	25	NA
Gross Alpha	3.5[d]	**6.66[e]**	**5.84**	13	NA
Gross Alpha, dissolved	<2.9	**<5.68[e]**	**<7.30**	<25	NA
Gross Beta	2.0[d]	**5.73[e]**	**6.84**	18	NA
Gross Beta, dissolved	<1.8	**<6.25[e]**	**<5.26**	<17	NA
All Other Parameters		ND	ND	NC	NC

[a]Overall error

[b]RPD = relative percent difference = $\frac{|R_1 - R_2|}{(R_1 + R_2)/2} X\ 100$

[c]More than one 2 sigma limit; lowest one given

[d]Average of both quadruplicate sets

[e]Average of quadruplicate sets

NA = Not applicable; acceptance limits have not been established for radionuclides ("Mixed Waste Landfill Groundwater Sampling and Analysis Plan," IT, 1990a)

NC = Not calculable

ND = Not detected

Summary of Laboratory and Field QC Results
Mixed Waste Landfill
October 1991
Groundwater Quality Data

Reference: Report on Quarterly Groundwater Sampling at the Mixed Waste Landfill, Sandia National Laboratories/New Mexico, October 1991.

Iodine-129 (^{129}I)
Tritium (^{3}H)

Radionuclides were submitted for analysis in duplicate fractions: unfiltered (for total concentrations) and filtered at 0.45μ (for dissolved concentrations). Iodine-129 and tritium were not found in either fraction (unfiltered or filtered) above the laboratory reporting limit (Table 7) with the following exceptions: Tritium was detected in unfiltered fractions of MWL-MW3 (906 ±276 pCi/L) and MWL-BW1 (404 ±244 pCi/L); and in the filtered fraction of MWL-MW1 (410 ±246 pCi/L) and MWL-BW1 duplicate (386 ±243 pCi/L). The DOE DCGs (1990) indicate an action level of 80,000 pCi/L for tritium.

3.5 Coliform Bacteria

Coliform bacteria were not detected in any samples (Table 7).

4.0 Quality Control

Quality control (QC) samples were prepared both in the field and in the laboratory for analysis to determine the precision and accuracy of the methods used and to detect any contamination that may have occurred during sampling and analysis.

4.1 Field Quality Control

Field QC samples (environmental duplicate and field blank samples) collected during the ground-water sampling effort were submitted with ground-water samples for analysis in accordance with QC procedures specified in the MWL Sampling and Analysis Plan (SNL, 1990a).

4.1.2 Field Blanks

The MWL Sampling and Analysis Plan requires that one field blank sample be prepared for each day when environmental VOA samples are collected; since VOA was not required in the October 1991 sampling, VOA field blanks were not required. However, one full-suite field blank sample was collected to be analyzed for all October 1991 parameters. The field blank sample was prepared by pouring deionized water into prepared sample containers at the wellhead to simulate the transfer of environmental samples from sample collection equipment to the sample container. Field blanks are intended to assess any contamination that may be

introduced by sample handling in the field and from ambient field conditions. No analytes were detected in the field blank sample.

4.1.3 Equipment Blanks

As previously described (Section 2.4), dedicated pumping equipment was removed from the wells and inspected/maintained. Equipment blanks were collected following decontamination and preceding replacement of pumps. Only tritium was detected in the equipment blank, in values ranging from ND ±224 pCi/L to 4,300 pCi/L ±374 pCi/L. Contamination of some equipment blanks by the analytical laboratory may have occurred. Results are presented in Table 7.

4.1.4 Duplicate Environmental Samples

An environmental duplicate sample was collected from well MWL-BW1 for all analytical fractions. The duplicate sample was collected immediately after the original environmental sample in order to provide a representative duplicate and to reduce variability due to sampling procedures. The purpose of the duplicate environmental sample is to evaluate the overall precision of the sampling and analytical methods used.

Relative percent difference (RPD) calculations were performed to assess precision. Results of environmental and duplicate sample analyses and calculated RPD values are summarized in Table 8; results indicate that sampling and analysis precision was acceptable for all organic and inorganic constituents. Calculations of RPD for radionuclide fractions were not calculable, and control limits are not specified in the MWL Sampling and Analysis Plan.

4.2 Laboratory Quality Control

Internal laboratory QC analyses performed included blank, laboratory control sample, matrix spike, and surrogate spike analyses.

4.2.1 Blank Analyses

Laboratory method blanks were analyzed to identify any contamination resulting from laboratory equipment or reagents. No constituents were detected in laboratory method blank samples.

4.2.2 Laboratory Control Sample and Matrix Spike Analyses

Laboratory control samples (LCS) were analyzed concurrently with the submitted environmental samples to determine the accuracy and precision of the analytical methods

used. In addition, a matrix spike sample was prepared from well MWL-MW1 and analyzed in duplicate to assess any matrix interference on analytical accuracy and precision. Results of LCS analyses and matrix spike duplicate analyses, accuracy (as percent recovery), precision (as RPD), and laboratory-assigned acceptance limits are contained in the analytical reports (Appendix F). Review of laboratory QC data indicates the results for accuracy and precision are within laboratory acceptance limits and within acceptance limits specified in the MWL Sampling and Analysis Plan (SNL, 1990a), with the exception of high recovery (248 percent) of the tritium matrix spike duplicate. The laboratory believes the spike was inadvertently contaminated during analysis. These exceptions do not affect the quality of the data.

4.2.3 Surrogate Spike Analyses

Surrogate spike analyses, performed by the analytical laboratory to verify the accuracy of organic compound analyses, were all within acceptance limits specified in the MWL Sampling and Analysis Plan. Percent recoveries are included in the analytical reports in Appendix F.

4.2.4 Holding Times

Holding times for samples submitted for required analyses were within the holding times specified in the MWL Sampling and Analysis Plan.

4.3 Nonconformance and Corrective Action

The MWL Sampling and Analysis Plan (Rev. 0.0) requires that three borehole volumes be purged from each well prior to sampling. However, in the case of low-yielding wells, it is permissible to purge once to dryness, allow the well to recover, and then sample the ground water (EPA, 1986b).

MWL-MW2 and MWL-MW3 have such low yields that they purge to dryness before stability of field measurements can be achieved. A complete record of purge parameters is included in this report, and the last three measurements prior to sampling do not always fall within the limits dictated in Section 2.3 of the MWL Sampling and Analysis Plan (SNL, 1990a). In the case of these two wells, it is simply not possible to meet the required criteria and have sufficient ground water remaining to be sampled.

Samples of groundwater for radionuclide analysis were not field-preserved, since some (^{129}I and tritium) were to remain unpreserved (IT, 1991b), and some were to be preserved by the laboratory upon receipt. None were preserved upon receipt by the laboratory. A time lapse of three weeks had occurred between sampling and the laboratory report of lack of

preservation, causing samples to be invalidated. Analyses for gross alpha, gross beta, ^{241}Am, ^{137}Cs, ^{55}Fe, ^{210}Po, ^{226}Ra, ^{228}Ra, and ^{90}Sr were canceled. Future sampling will be collected with laboratory-provided prepreserved bottles. Follow-up for pH testing upon receipt by the laboratory will be initiated.

5.0 Summary and Conclusions

During the October 1991 sampling at the MWL, samples were collected by dedicated pumping systems in accordance with the MWL Sampling and Analysis Plan. All four wells were purged to dryness, allowed to recover, then sampled. Ground-water samples from MWL wells were analyzed for all RCRA ground-water quality, drinking-water supply, and contamination indicator parameters (40 CFR 265, Subpart F), as well as selected RCRA Appendix IX parameters and selected radionuclides.

A summary of detected analytes is given in Table 9. No parameters were detected at levels above NMWQR limits or DOE DCGs for radionuclides. Tritium was detected in two unfiltered fractions from 906 ±276 pCi/L to 404 ±244 pCi/L and in two filtered fractions from 410 ±246 pCi/L to 386 ±243 pCi/L; otherwise, no radionuclides were found in any MWL samples. No coliform bacteria were detected in any wells.

Analytical and field quality control measures were implemented as required by the MWL Sampling and Analysis Plan and demonstrated control and data validity for the October 1991 sampling.

6.0 References

IT Corporation (IT), 1991a, "Report on Background Ground-Water Sampling at the Mixed Waste Landfill, Sandia National Laboratories, Albuquerque, September 1990," draft, IT Corporation, Albuquerque, New Mexico.

IT Corporation (IT), 1991b, "Report on Quarterly Ground-Water Sampling at the Mixed Waste Landfill, Sandia National Laboratories, Albuquerque, April 1991," draft, IT Corporation, Albuquerque, New Mexico.

Sandia National Laboratories, Albuquerque (SNL), 1990a, "Mixed Waste Landfill Sampling and Analysis Plan, Sandia National Laboratories Ground-Water Monitoring Program," Rev. 0.0, Sandia National Laboratories, Albuquerque, New Mexico.

Table 8

Summary of Duplicate Environmental Analyses
Sandia National Laboratories, Albuquerque
Mixed Waste Landfill
October 1991

Parameter	Method Detection Limit (MDL)	MWL-BW1 Environmental Sample Result (R1) SNLA006583	MWL-BW1 Duplicate Sample Result (R2) SNLA006587	RPD(%)[a]	Acceptance Limit[b]
		Results and MDL in mg/L			
Metals					
Total Ba	0.010	**0.097**	**0.095**	2	±20 for value >5X MDL; ±MDL for values ≤5X MDL
Total Na	5.0	**57.0**	**56.4**	1	±20 for value >5X MDL; ±MDL for values ≤5X MDL
Dissolved Ba	0.010	**0.092**	**0.099**	7	±20 for value >5X MDL; ±MDL for values ≤5X MDL
Dissolved Na	5.0	**54.7**	**53.7**	2	±20 for value >5X MDL; ±MDL for values ≤5X MDL
Inorganics					
Chloride	3.0	**27.4**	**27.8**	1	±20 for value >5X MDL; ±MDL for values ≤5X MDL
Fluoride	0.10	**0.81**	**0.85**	5	±20 for value >5X MDL; ±MDL for values ≤5X MDL
Nitrate (as N)	0.50	**5.6**	**5.6**	0	±20 for value >5X MDL; ±MDL for values ≤5X MDL
Sulfate	5.0	**44.8**	**44.6**	0.4	±20 for value >5X MDL; ±MDL for values ≤5X MDL
		SNLA006588	SNLA006592		
		Results and MDL in pCi/L			
Radionuclides					
Tritium, total	500	**404** [±244][c]	ND [±228][c]	NC	NG
Tritium, dissolved	500	ND [±233][c]	**386** [±243][c]	NC	NG
All Other Parameters	Various	ND	ND	NC	NA

[a]RPD = Relative Percent Difference = $\frac{|R_1 - R_2|}{(R_1 + R_2)/2} X\ 100$

[b]"Mixed Waste Landfill Groundwater Sampling and Analysis Plan" (IT, 1990a)

[c]Overall error

ND = Not detected at overall error given.

NC = Not calculable.

NG = Not given.

NA = Not applicable.

Summary of Laboratory and Field QC Results
Mixed Waste Landfill
July 1991
Groundwater Quality Data

Reference: Report on Quarterly Groundwater Sampling at the Mixed Waste Landfill, Sandia National Laboratories/New Mexico, July 1991.

3.4 Radionuclides

Ground-water samples from MWL wells were analyzed for the following radionuclides:

Iodine-129 (^{129}I)
Tritium (^{3}H)

Radionuclides were submitted for analysis in duplicate fractions: unfiltered (for total concentrations) and filtered at 0.45μ (for dissolved concentrations). Neither iodine-129 nor tritium were found in either fraction (unfiltered or filtered) above the laboratory reporting limit (Table 7). Gross alpha and gross beta samples were analyzed in quadruplicate fractions on unfiltered and filtered samples. Gross alpha values ranged from 1.17 $\pm$0.686 pCi/L to 12.1 $\pm$4.1 pCi/L; gross beta values ranged from 4.10 $\pm$1.93 pCi/L to 11.4 $\pm$2.40 pCi/L.

3.5 Coliform Bacteria

Coliform bacteria were not detected in any samples (Table 7).

4.0 Quality Control

Quality control (QC) samples were prepared both in the field and in the laboratory for analysis to determine the precision and accuracy of the methods used and to detect any contamination that may have occurred during sampling and analysis.

4.1 Field Quality Control

Field QC samples (environmental duplicate and field blank samples) collected during the ground-water sampling effort were submitted with ground-water samples for analysis in accordance with QC procedures specified in the MWL Sampling and Analysis Plan.

4.1.1 Trip Blanks

Trip blank samples are required whenever samples are collected for volatile organic analysis (VOA) in order to assess whether or not contamination occurred during sample shipment. Because VOA was not requested in the July 1991 sampling, trip blanks were not submitted.

4.1.2 Field Blanks

The MWL Sampling and Analysis Plan requires that one field blank sample be prepared for each day when environmental VOA samples are collected; since VOA was not required in the July 1991 sampling, VOA field blanks were not required. However, one full-suite field blank sample was collected to be analyzed for all July 1991 parameters. The field blank sample was prepared by pouring deionized water into prepared sample containers at the wellhead to simulate the transfer of environmental samples from sample collection equipment to the sample container. Field blanks are intended to assess any contamination that may be introduced by sample handling in the field and from ambient field conditions. The following analyte was detected in the field blank sample: phenolics (0.028 mg/L). These results fall within acceptance criteria for blank samples according to the MWL Sampling and Analysis Plan.

4.1.3 Equipment Blanks

As previously described (Section 2.4), dedicated pumping equipment was used to sample wells. Because the pumps were already in place in the wells, equipment blanks were not required and were not collected.

4.1.4 Duplicate Environmental Samples

An environmental duplicate sample was collected from well MWL-BW1 for all analytical fractions. The duplicate sample was collected immediately after the original environmental sample in order to reduce variability due to time and/or sampling mechanics. The purpose of the duplicate environmental sample is to evaluate the overall precision of the sampling and analytical methods used.

Relative percent difference (RPD) calculations were performed to assess precision. Results of environmental and duplicate sample analyses and calculated RPD values are summarized in Table 8; results indicate that sampling and analysis precision was acceptable for all organic and inorganic constituents. Calculations of RPD for radionuclide fractions were done, although values are not specified in the MWL Sampling and Analysis Plan.

4.2 Laboratory Quality Control

Internal laboratory QC analyses performed included blank, laboratory control sample, matrix spike, and surrogate spike analyses.

4.2.1 Blank Analyses

Laboratory method blanks were analyzed to identify any contamination resulting from laboratory equipment or reagents. No constituents were detected in laboratory method blank samples.

4.2.2 Laboratory Control Sample and Matrix Spike Analyses

Laboratory control samples (LCS) were analyzed concurrently with the submitted environmental samples to determine the accuracy and precision of the analytical method. In addition, a matrix spike sample was prepared from well MWL-BW1 and analyzed in duplicate to assess any matrix interference on analytical accuracy and precision. Results of LCS analyses and matrix spike duplicate analyses, accuracy (as percent recovery), precision (as RPD), and laboratory-assigned acceptance limits are contained in the analytical reports (Appendix F). Review of laboratory QC data indicates the results for accuracy and precision are within laboratory acceptance limits and within acceptance limits specified in the MWL Sampling and Analysis Plan.

4.2.3 Surrogate Spike Analyses

Surrogate spike analyses, performed by the analytical laboratory to verify the accuracy of organic compound analyses, were all within acceptance limits. Percent recoveries are included in the analytical reports in Appendix F.

4.2.4 Holding Times

Holding times for samples submitted for required analyses were within the holding times specified in the MWL Sampling and Analysis Plan, with the exception of nitrite for wells MWL-MW1, MWL-MW2, and the field blank. Nitrate (as N) is determined by the difference between nitrite and nitrate, so nitrate values for those analyses may be inaccurate.

4.3 Nonconformance and Corrective Action

The MWL Sampling and Analysis Plan (Rev. 0.0) requires that three borehole volumes be purged from each well prior to sampling. However, in the case of low-yielding wells, it is permissible to purge once to dryness, allow the well to recover, and then sample the ground water (EPA, 1986b).

MWL-MW2 and MWL-MW3 have such low yields that they purge to dryness before stability of field measurements can be achieved. A complete record of purge parameters is included in this report, and the last three measurements prior to sampling do not always fall within the

limits dictated in Section 2.3 of the MWL Sampling and Analysis Plan. In the case of these two wells, it is simply not possible to meet the required criteria and have sufficient ground water remaining to be sampled.

Samples of groundwater for radionuclide analysis were not field-preserved, because some samples (^{129}I and tritium) were to remain unpreserved (IT, 1991b), and some were to be preserved by the laboratory upon receipt. None were preserved upon receipt by the laboratory. A time lapse of 3½ months occurred between sampling and the laboratory report of lack of preservation, causing samples to be invalidated. Bottles for gross alpha and gross beta were prepreserved by the supplying laboratory. Analyses for ^{137}Cs, ^{90}Sr, ^{55}Fe, ^{210}Po, ^{241}Am, ^{226}Ra, and ^{228}Ra were canceled. Future sampling will be done with laboratory-provided prepreserved bottles. Follow-up for lab pH testing upon receipt will be initiated.

5.0 Summary and Conclusions

During the July 1991 sampling at the MWL, samples were collected by dedicated pumping systems in accordance with the MWL Sampling and Analysis Plan. All four wells were purged to dryness, allowed to recover, then sampled. Ground-water samples from MWL wells were analyzed for all RCRA ground-water quality, drinking-water supply, and contamination indicator parameters (40 CFR 265, Subpart F), as well as selected RCRA Appendix IX parameters and selected radionuclides. A summary of detected analytes is given in Table 9. No parameters were detected at levels above NMWQR limits or DOE DCGs for ^{129}I or tritium. Gross alpha activity was detected in sample fractions at values from 1.17 $\pm$0.686 pCi/L to 12.1 $\pm$4.1 pCi/L; gross beta activity was measured in sample fractions from 4.10 $\pm$1.93 pCi/L to 11.4 $\pm$2.40 pCi/L. No coliform bacteria were detected in any wells.

Analytical and field quality control measures were implemented as required by the MWL Sampling and Analysis Plan and demonstrated control and data validity for the July 1991 sampling. Samples collected for ^{137}Cs, ^{90}Sr, ^{55}Fe, ^{210}Po, ^{241}Am, ^{226}Ra, and ^{228}Ra analysis were invalidated, because they were not preserved. Corrections to sampling procedures have been made to ensure proper preservation of future samples of this kind.

Table 8

Summary of Duplicate Environmental Analyses
Sandia National Laboratories, Albuquerque
Mixed Waste Landfill

July 1991

Parameter	Method Detection Limit (MDL), Units	SNLA006437 MWL-BWI Environmental Sample Result (R1)	SNLA006441 MWL-BWI Duplicate Sample Result (R2)	RPD(%)[a]	Acceptance Limit[b]
		Results in mg/L			
Metals					
Total Ba	0.010 mg/L	**0.097**	**0.090**	7	± 20 for value >5X MDL;
Total Na	5.0 mg/L	**63.7**	**62.7**	2	± MDL for values ≤5X MDL
Dissolved Ba	0.010 mg/L	**0.082**	**0.081**	1	± 20 for value >5X MDL;
Dissolved Na	5.0 mg/L	**49.8**	**48.5**	3	± MDL for values ≤5X MDL
Inorganics					
Chloride	3.0 mg/L	**26.7**	**27.9**	4	± 20 for value >5X MDL;
Fluoride	0.10 mg/L	**0.84**	**0.84**	0	± MDL for values ≤5X MDL
Nitrate (as N)	0.10 mg/L	**5.1**	**5.1**	0	
Sulfate	5.0 mg/L	**43.3**	**44.3**	2	

[a]RPD = Relative Percent Difference = $\frac{|R_1 - R_2|}{(R_1 + R_2)/2} X\ 100$

[b]Mixed Waste Landfill Groundwater Sampling and Analysis Plan" (IT, September 1990)

Table 8 *(Continued)*

Summary of Duplicate Environmental Analyses
Sandia National Laboratories, Albuquerque
Mixed Waste Landfill

July 1991

Parameter	±2 Sigma[a]	SNLA006442 MWL-BWI Environmental Sample Result (R1)	SNLA006446 MWL-BWI Duplicate Sample Result (R2)	RPD(%)[b]	Acceptance Limit
Radionuclides					
Gross Alpha	2.94 pCi/L[d]	**7.26**[c]	**6.56**[c]	10	NA
Gross Beta	1.92 pCi/L[d]	**6.99**[c]	**5.82**[c]	18	NA
All Other Parameters		ND	ND	NC	NA

[a]Overall error.
[b]RPD = Relative Percent Difference = $\frac{|R_1 - R_2|}{(R_1 + R_2)/2} X\ 100$
[c]Average of quadruplicate sets.
[d]Average of both quadruplicate sets.
NA = Not applicable; acceptance limits have not been established for radionuclides ("Mixed Waste Landfill Groundwater Sampling and Analysis Plan," IT, September 1990)
NC = Not calculable.
ND = Not detected.

Summary of Laboratory and Field QC Results
Mixed Waste Landfill
April 1991
Groundwater Quality Data

Reference: Report on Quarterly Groundwater Sampling at the Mixed Waste Landfill, Sandia National Laboratories/New Mexico, April 1991.

Iron-55	(Fe-55)
Polonium-210	(Po-210)
Radium-226	(Ra-226)
Radium-228	(Ra-228)
Strontium-90	(Sr-90)
Tritium	(H-3)

Most radionuclides were submitted for analysis in duplicate fractions: unfiltered (for total concentrations) and filtered at 0.45μ (for dissolved concentrations). Radionuclides were not found in either fraction (unfiltered or filtered) above the laboratory reporting limit (Table 7), with the following exceptions:

Polonium-210 was detected in all unfiltered fractions from 0.0486 ±0.0234 pCi/L (MWL-MW3) to 0.0918 ±0.0336 pCi/L (MWL-MW1); and in all filtered fractions from 0.0233 ±0.0162 pCi/L (MWL-MW3) to 0.0592 ±0.0276 pCi/L (MWL-BW1).

Cesium-137 was detected at 3.01 ±2.81 pCi/L in the unfiltered fraction of MWL-MW1.

Gross alpha and gross beta samples were analyzed in quadruplicate fractions on unfiltered samples only. Gross alpha values ranged from 5.6 ±3.8 pCi/L to 12 ±5 pCi/L; gross beta values ranged from 3.4 ±3.3 pCi/L to 11 ±5 pCi/L.

The DOE DCGs indicate an action level of 3.2 pCi/L for Polonium-210, 120 pCi/L for Cesium-137, and 0.6 pCi/L for gross alpha, excluding uranium and radon.

3.5 Coliform Bacteria

Coliform bacteria were not detected in any samples.

4.0 Quality Control

Quality control (QC) samples were prepared both in the field and in the laboratory for analysis to determine the precision and accuracy of the methods used and to detect any contamination that may have occurred during sampling and analysis.

4.1 Field Quality Control

Field QC samples (environmental duplicate and field blank samples) collected during the ground-water sampling effort were submitted with ground-water samples for analysis in accordance with QC procedures specified in the MWL Sampling and Analysis Plan.

4.1.1 Trip Blanks

Trip blank samples are required whenever samples are collected for volatile organic analysis (VOA) in order to assess whether or not contamination occurred during sample shipment. Because VOA was not requested in the April 1991 sampling, trip blanks were not submitted.

4.1.2 Field Blanks

The MWL Sampling and Analysis Plan requires that one field blank sample be prepared for each day when environmental VOA samples are collected; since VOA was not required in the April 1991 sampling, VOA field blanks were not required. However, one full-suite field blank sample was collected to be analyzed for all April 1991 parameters. The field blank sample was prepared by pouring deionized water into prepared sample containers at the wellhead to simulate the transfer of environmental samples from sample collection equipment to the sample container. Field blanks are intended to assess any contamination that may be introduced by sample handling in the field and from ambient field conditions. The following analytes were detected in the field blank sample: total iron (0.15 mg/L), chloride (3.0 mg/L), polonium-210 (0.025 ±0.0216 pCi/L), and tritium (238 ±196 pCi/L). These results all fall within acceptance criteria for blank samples according to the MWL Sampling and Analysis Plan.

4.1.3 Equipment Blanks

As previously described (Section 2.4), dedicated pumping equipment was used to sample wells. Because the pumps were already in place in the wells, equipment blanks were not required and were not collected.

4.1.4 Duplicate Environmental Samples

An environmental duplicate sample was collected from well MWL-BW1 for all analytical fractions. The duplicate sample was collected immediately after the original environmental sample in order to reduce variability due to time and/or sampling mechanics. The purpose of the duplicate environmental sample is to evaluate the overall precision of the sampling and analytical methods used.

Relative Percent Difference (RPD) calculations were performed to assess precision. Results of environmental and duplicate sample analyses and calculated RPD values are summarized in Table 8; results indicate that sampling and analysis precision was acceptable for organic and inorganic constituents with the exception of nitrate (as N). This is determined by the difference between nitrite and nitrate plus nitrite. The sample holding time for nitrite had expired before the analysis due to a delay in sample shipment. The analysis was performed anyway, but the results are unreliable. Calculations of RPD for radionuclide fractions were done although values are not specified in the MWL Sampling and Analysis Plan. Only the values of dissolved Polonium-210 were significantly different. This may have been caused by the filtering method used. A different method is now used, which should produce more precise results.

4.2 Laboratory Quality Control

Internal laboratory QC analyses performed included blank, laboratory control sample, matrix spike, and surrogate spike analyses.

4.2.1 Blank Analyses

Laboratory method blanks were analyzed to identify any contamination resulting from laboratory equipment or reagents. No constituents were detected in laboratory method blank samples.

4.2.2 Laboratory Control Sample and Matrix Spike Analyses

Laboratory control samples (LCS) were analyzed concurrently with the submitted environmental samples to determine the accuracy and precision of the analytical method. In addition, a matrix spike sample was prepared from well MWL-BW1 and analyzed in duplicate to assess any matrix interference on analytical accuracy and precision. Results of LCS analyses and matrix spike duplicate analyses, accuracy (as percent recovery), precision (as RPD), and laboratory-assigned acceptance limits are contained in the analytical reports (Appendix F). Review of laboratory QC data indicates the results for accuracy and precision are within laboratory acceptance limits and within acceptance limits specified in the MWL Sampling and Analysis Plan, with the exception of high recovery (128 percent) of the Cesium-137 spike and matrix affects on blank and spike yields for the Iodine-129 analysis. These exceptions do not affect the quality of the data.

4.2.3 Surrogate Spike Analyses

Surrogate spike analyses, performed by the analytical laboratory to verify the accuracy of organic compound analyses, were all within acceptance limits. Percent recoveries are included in the analytical reports in Appendix F.

4.2.4 Holding Times

Holding times for samples submitted for required analyses were within specified MWL Sampling and Analysis Plan holding times, with the exception of nitrite for wells MWL-BW1 and MWL-MW1. Nitrate is determined by the differences between initial nitrite and total nitrite, so nitrate values for those wells may be inaccurate.

4.3 Nonconformance and Corrective Action

The MWL Sampling and Analysis Plan (Revision 0.0) requires that three borehole volumes be purged from each well prior to sampling. However, in the case of low-yielding wells, it is permissible to purge once to dryness, allow the well to recover, and then sample the ground water (EPA, 1986b).

MWL-MW2 and MWL-MW3 have such low yields that they purge to dryness before stability of field measurements can be achieved. A complete record of purge parameters is included in this report, and the last three measurements prior to sampling do not always fall within the limits dictated in Section 2.3 of the MWL Sampling and Analysis Plan. In the case of these two wells, it is simply not possible to meet the required criteria and have sufficient ground water remaining to be sampled.

During purging of MWL-BW1, a broken pH display was discovered. The pH measurements were not obtainable for this well. The display has been repaired.

Following analysis of radionuclide samples, it was learned that samples submitted for I-129 and tritium analyses are to be unpreserved. The addition of nitric acid preservative causes volatilization (and therefore loss) of some portion of the I-129, and interferes with the tritium count. Because all radionuclide fractions in the April 1991 sampling event were preserved, concentrations of I-129 and tritium may be less than the true concentration and should not be regarded as valid. Future samples collected for analysis of I-129 will not be preserved.

After the sampling event, it was learned that filtered fractions were not analyzed for gross alpha, gross beta, Ra-226 and Ra-228. At this point it was too late to take more sample and the labs did not have sufficient quantities left over from other analyses to provide the required analyses. Those analyses were not done for this sampling event.

5.0 Summary and Conclusions

During the April 1991 sampling at the MWL, samples were collected by dedicated pumping systems in accordance with the MWL Sampling and Analysis Plan. All four wells were purged to dryness, allowed to recover, then sampled. Ground-water samples from MWL wells were analyzed for all RCRA ground-water quality, drinking-water supply, and contamination indicator parameters (40 CFR 265, Subpart F), as well as selected RCRA Appendix IX parameters and selected radionuclides. A summary of detected analytes is given in Table 9.

In general, no parameters (except phenolics) were detected at levels above NMWQR limits or DOE DCGs for radionuclides.

Polonium-210 was detected in all unfiltered and filtered samples from 0.0233 ±0.0162 pCi/L to 0.0918 ±0.0336 pCi/L and cesium-137 was detected in one unfiltered fraction at 3.01 ±2.81 pCi/L; otherwise, no radionuclides were found in any MWL samples. Gross alpha activity was detected in sample fractions at values from 5.6 ±3.8 pCi/L to 12 ±5 pCi/L; gross beta activity was measured in sample fractions from 3.4 ±3.3 pCi/L to 11 ±5 pCi/L.

No coliform bacteria were detected in any wells.

Analytical and field quality control measures were implemented as required by the MWL Sampling and Analysis Plan and demonstrated control and data validity for the April 1991 sampling.

6.0 References

International Technology Corporation, April 1991 draft report, *Report on Background Ground-Water Sampling at the Mixed Waste Landfill, Sandia National Laboratories, Albuquerque, September 1990.*

Table 8

Summary of Duplicate Environmental Analyses
Sandia National Laboratories, Albuquerque
Mixed Waste Landfill

April 1991

Parameter	Method Detection Limit (MDL), Units	SNLA005887 MWL-BWI Environmental Sample Result (R1)	SNLA005893 MWL-BWI Duplicate Sample Result (R2)	RPD(%)[1]	Acceptance Limit[2]
		Results in mg/L			
Metals					
Total Ba	0.010 mg/L	**0.093**	**0.080**	15	± 20 for value >5X MDL; ± MDL for values ≤5X MDL
Total Fe	0.10 mg/L	ND	**0.10**	NC	
Total Na	5.0 mg/L	**53.2**	**44.4**	18	
Dissolved Ba	0.010 mg/L	**0.098**	**0.10**	2	± 20 for value >5X MDL; ± MDL for values ≤5X MDL
Dissolved Na	5.0 mg/L	**52.0**	**54.4**	5	
Inorganics					
Chloride	3.0 mg/L	**26.7**	**26.8**	0.4	± 20 for value >5X MDL; ± MDL for values ≤5X MDL
Fluoride	0.10 mg/L	**0.60**	**0.60**	0	
Nitrate (as N)	0.20 mg/L	**6.2**	**2.6**	82	
Phenolics	0.010 mg/L	ND	**0.021**	NC	±20
Sulfate	5.0 mg/L	**42.6**	**42.8**	0.5	±20

[1]RPD = Relative Percent Difference = $\frac{|R_1 - R_2|}{(R_1 + R_2)/2} X\ 100$

[2]Mixed Waste Landfill Groundwater Sampling and Analysis Plan (IT Corp., September 1990)

ND = Not detected at reporting limit indicated.

NC = Not calculable

Table 8, continued

Summary of Duplicate Environmental Analyses
Sandia National Laboratories, Albuquerque
Mixed Waste Landfill

April 1991

Parameter	±2 Sigma[3]	SNLA005889 MWL-BWI Environmental Sample Result (R1)	SNLA005895 MWL-BWI Duplicate Sample Result (R2)	RPD(%)[1]	Acceptance Limit
Radionuclides					
Polonium-210, total	0.0214* pCi/L	**0.0567**	**0.0549**	3	NA
Polonium-210, dissolved	0.0193 pCi/L	**0.0592**	**0.0382**	43	NA
Gross Alpha[2]	4.5 pCi/L[4]	**10.5**	**7.9**	28	NA
Gross Beta[2]	3.5 pCi/L[4]	**4.0**	**5.2**	26	NA
All Other Parameters		ND	ND	NC	NA

[1]RPD = Relative Percent Difference = $\frac{|R_1 - R_2|}{(R_1 + R_2)/2} X\ 100$

[2]Average of quadruplicate values.
[3]Counting error.
[4]Average.
*More than one detection limit, lowest one given.
NA = Not applicable; acceptance limits have not been established for radionuclides (Mixed Waste Landfill Groundwater Sampling and Analysis Plan, IT, September, 1990)
NC = Not calculable
ND = Not detected

Summary of Laboratory and Field QC Results
Mixed Waste Landfill
January 1991
Groundwater Quality Data

Reference: Report on Quarterly Groundwater Sampling at the Mixed Waste Landfill, Sandia National Laboratories/New Mexico, January 1991.

were not found in either fraction (unfiltered or filtered) above the laboratory reporting limit (Table 7), with the following exceptions.

Radium-226 was detected in the filtered fraction from MWL-MW3 at 1.1 $\pm$0.5 pCi/L.

Gross alpha and gross beta samples were analyzed in quadruplicate fractions. Gross alpha values ranged from 2.9 $\pm$1.9 pCi/L to 5.4 $\pm$2.8 pCi/L; some fractions showed no detection at detection limits of 3 pCi/L or 5 pCi/L. Gross beta values ranged from 5.9 $\pm$3.7 pCi/L to 14 $\pm$5 pCi/L; a few fractions showed no detection at detection limits ranging from 4 pCi/L to 7 pCi/L.

3.5 Coliform Bacteria

Coliform bacteria were not detected in BW-1, MW-2 and MW-3. The samples from MW-1 and BW-1 (duplicate) contained too many noncoliform bacteria to count coliform bacteria.

4.0 Quality Control

Quality control (QC) samples were prepared both in the field and in the laboratory for analysis to determine the precision and accuracy of the methods used and to detect any contamination that may have occurred during sampling and analysis.

4.1 Field Quality Control

Field QC samples (environmental duplicate and equipment and trip blank samples) collected during the ground-water sampling effort were submitted with ground-water samples for analysis in accordance with QC procedures specified in the MWL Sampling and Analysis Plan.

4.1.1 Trip Blanks

Trip blank samples are required whenever samples are collected for volatile organic analysis (VOA) in order to assess whether or not contamination occurred during sample shipment. Trip blanks consist of laboratory reagent water contained in 40 mL vials prepared by the analytical laboratory that accompany the empty sample containers supplied by the laboratory. Because VOA was not requested in the January 1991 sampling, trip blanks were not submitted.

4.1.2 Field Blanks

The MWL Sampling and Analysis Plan requires that one field blank sample be prepared for each day when environmental VOA samples are collected; since VOA was not required in the January 1991 sampling, VOA field blanks were not required. One full-suite field blank sample was collected to be analyzed for all January 1991 parameters. The field blank sample was prepared by pouring deionized water into prepared sample containers at the wellhead to simulate the transfer of environmental samples from sample collection equipment to the sample container. No analytical constituents were detected in the field blank sample.

4.1.3 Equipment Blanks

As previously described (Section 2.4), dedicated pumping equipment was used to sample wells. Because the pumps were already in place in the wells, equipment blanks were not required and were not collected.

4.1.4 Duplicate Environmental Samples

An environmental duplicate sample was collected from well MWL-BW1 for all analytical fractions. The duplicate sample was collected immediately after the original environmental sample in order to reduce variability due to time and/or sampling mechanics. The purpose of the duplicate environmental sample is to evaluate the overall precision of the sampling and analytical methods used.

Relative Percent Difference (RPD) calculations were performed to assess precision. Results of environmental and duplicate sample analyses and calculated RPD values are summarized in Table 8; results indicate that sampling and analysis precision was acceptable for organic and inorganic constituents. It is not necessary to calculate RPD for radionuclide fractions, as each analysis was reported based on an associated method blank analysis. This procedure resulted in differing reporting limits, making precision comparison meaningless.

4.2 Laboratory Quality Control

Internal laboratory QC analyses performed included blank, laboratory control sample, matrix spike, and surrogate spike analyses.

4.2.1 Blank Analyses

Laboratory method blanks were analyzed to identify any contamination resulting from laboratory equipment or reagents. No constituents were detected in laboratory method blank samples.

4.2.2 Laboratory Control Sample and Matrix Spike Analyses

Laboratory control samples (LCS) were analyzed concurrently with the submitted environmental samples to determine the accuracy and precision of the analytical method. In addition, a matrix spike sample was prepared from well MWL-BW1 and analyzed in duplicate to assess any matrix interference on analytical accuracy and precision. Results of LCS analyses and matrix spike duplicate analyses, accuracy (as percent recovery), precision (as RPD), and laboratory-assigned acceptance limits are contained in the analytical reports (Appendix F). Review of laboratory QC data indicates the results for accuracy and precision are within laboratory acceptance limits and within acceptance limits specified in the MWL Sampling and Analysis Plan.

4.2.3 Surrogate Spike Analyses

Surrogate spike analyses, performed by the analytical laboratory to verify the accuracy of organic compound analyses, were all within acceptance limits. Percent recoveries are included in the analytical reports in Appendix F.

4.2.4 Holding Times

Holding times for samples submitted for required analyses were within specified MWL Sampling and Analysis Plan holding times.

4.3 Nonconformance and Corrective Action

The MWL Sampling and Analysis Plan (Revision 0.0) requires that three borehole volumes be purged from each well prior to sampling. However, in the case of low-yielding wells, it is permissible to purge once to dryness, allow the well to recover, and then sample the ground water (EPA, 1986b).

MWL-MW2 and MWL-MW3 have such low yields that they purge to dryness before stability of field measurements can be achieved. A complete record of purge parameters is included in this report, and the last three measurements prior to sampling do not always fall within the limits dictated in Section 2.3 of the MWL Sampling and Analysis Plan. In the case of these

two wells, it is simply not possible to meet the required criteria and have sufficient ground water remaining to be sampled.

Laboratory analytical reports indicate contamination of two method blanks by phenolics. As a consequence, reporting limits for associated environmental samples were raised to levels two to three times greater than the MCL.

It should also be noted that the standard method reporting limit for phenolics (0.010 mg/L) is greater than the MCL (0.005 mg/L). In future sampling events, a request should be made to the analytical laboratory that the reporting limit be equal to or less than the MCL.

Following analysis of radionuclide samples, it was learned that samples submitted for I-129 analysis are to be unpreserved. The addition of nitric acid preservative causes volatilization (and therefore loss) of some portion of the I-129. Because all radionuclide fractions in the January 1991 sampling event were preserved, the results for I-129 may be less than the true concentration and should be regarded as inaccurate.

5.0 Summary and Conclusions

During the January 1991 sampling at MWL, samples were collected by dedicated pumping systems in accordance with the MWL Sampling and Analysis Plan. All four wells were purged to dryness, allowed to recover, then sampled. Ground-water samples from MWL wells were analyzed for all RCRA ground-water quality, drinking-water supply, and contamination indicator parameters (40 CFR 265, Subpart F), as well as selected RCRA Appendix IX parameters and selected radionuclides. A summary of detected analytes is given in Table 9.

In general, no parameters (except phenolics) were detected at levels above NMWQR limits.

Radium-228 was detected in one filtered sample at 1.1 pCi/L; otherwise, no radionuclides were found in any MWL samples. Gross alpha activity was detected in sample fractions at values from 2.9 pCi/L to 5.4 pCi/L; gross beta activity was measured in sample fractions from 5.9 pCi/L to 14 pCi/L.

No coliform bacteria were detected in any wells.

Analytical and field quality control measures were implemented as required by the MWL Sampling and Analysis Plan and demonstrated control and data validity for the January 1991 sampling.

Table 8

Summary of Duplicate Environmental Analyses
Sandia National Laboratories, Albuquerque
Mixed Waste Landfill

January 1991

Parameter	Reporting Limit, UnitS	MWL-BWI Environmental Sample Result	MWL-BWI Duplicate Sample Result	RPD	Acceptable?
Total Ba	0.010 mg/L	0.12	0.12	0	Yes
Total Zn	0.020 mg/L	0.096	0.097	1.0	Yes
Dissolved Ba	0.010 mg/L	0.12	0.13	8.0	Yes
Dissolved Zn	0.020 mg/L	0.074	0.086	15.0	Yes
Chloride	3.0 mg/L	28.8	28.1	2.5	Yes
Fluoride	0.10 mg/L	0.68	0.70	2.9	Yes
Nitrate (as N)	0.50 mg/L	6.0	6.1	1.7	Yes
Phenolics	0.010 mg/L	0.019	ND	NC	
Sulfate	5.0 mg/L	45.1	43.9	2.7	Yes
I-129	1.36 /0.760 pCi/L	2.67	ND	NC	
Ra-226	0.0988/0.0943 pCi/L	0.257	0.230	NC	NA[1]
Ra-228	0.480 /0.436 pCi/L	0.609	0.501	NC	NA
U-234	0.662 /0.646 pCi/L	6.60	6.38	NC	NA
U-235	0.0229/0.0276 pCi/L	0.0629	0.0833	NC	NA
U-238	0.262 /0.262 pCi/L	2.38	2.36	NC	NA
All other parameters		ND	ND	NC	NA

ND = Not detected.
NA = Not applicable.
[1]Radionuclide analyses performed at varying reportin limits; therefore, meaningful RPD calculations cannot be made.

Summary of Laboratory and Field QC Results
Mixed Waste Landfill
September 1990
Groundwater Quality Data

Reference: Report on Background Groundwater Sampling at the Mixed Waste Landfill, Sandia National Laboratories/New Mexico, September 1990.

4.0 Quality Control

Quality control (QC) samples were prepared both in the field and in the laboratory for analysis to determine the precision and accuracy of the methods used, and to detect any contamination that may have occurred during sampling and analysis.

4.1 Field Quality Control

Field QC samples (environmental duplicate and equipment and trip blank samples) collected during the groundwater sampling effort were submitted with groundwater samples for analysis in accordance with QC procedures specified in the MWL Sampling and Analysis Plan.

4.1.1 Trip Blanks

Trip blank samples are required whenever samples are collected for volatile organic analysis (VOA) in order to assess whether or not contamination occurred during sample shipment. Trip blanks consist of laboratory reagent water contained in 40 ml vials prepared by the analytical laboratory, that accompany the empty sample containers supplied by the laboratory. A separate trip blank was brought to the field and included with each shipment of environmental samples to the laboratory. No VOA parameters were detected in the trip blanks.

4.1.2 Field Blanks

As required by the MWL Sampling and Analysis Plan, one field blank sample was prepared for each day when environmental VOA samples were collected in order to assess whether or not contamination resulted from ambient field conditions. The field blank sample was prepared by pouring deionized water into prepared VOA sample containers, at the wellhead, to simulate the transfer of environmental samples from sample collection equipment to the sample container. All field blank samples collected during this sampling effort, when analyzed, contained no volatile organic compounds.

4.1.3 Equipment Blanks

As previously described (Section 2.4), dedicated pumping equipment was used to sample wells. Because the pumps were already in place in the wells, equipment blanks were not required, and were not collected.

4.1.4 Duplicate Environmental Samples

An environmental duplicate sample was collected from well MWL-BW1 for all analytical fractions. The duplicate sample was collected immediately after the original environmental sample, in order to reduce variability due to time and/or sampling mechanics. The purpose of the duplicate environmental sample is to evaluate the overall precision of the sampling and analytical methods used.

Relative Percent Difference (RPD) calculations were performed to assess precision. Results of environmental and duplicate sample analyses and calculated RPD values are summarized in Table 8; results indicate that sampling and analysis precision was acceptable for organic and inorganic constituents. It was not possible to calculate RPD for radionuclide fractions as each analysis was reported based on an associated method blank analysis. This procedure resulted in differing reporting limits, making precision comparison meaningless.

4.2 Laboratory Quality Control

Internal laboratory QC analyses performed included blank, matrix spike, and surrogate spike analyses.

4.2.1 Blank Analyses

Laboratory method blanks were analyzed to identify any contamination resulting from laboratory equipment or reagents. No constituents were detected in laboratory method blank samples.

4.2.2 Laboratory Control Sample Analyses

Laboratory control samples (LCS) were analyzed concurrently with the submitted environmental samples to determine the accuracy and precision of the analytical method. Results of LCS analyses, accuracy (as percent recovery), precision (as RPD), and laboratory-assigned acceptance limits are contained in the analytical reports (Appendix F). Review of laboratory QC data indicates the results for accuracy and precision of LCS samples are all within laboratory acceptance limits and within acceptance limits for matrix spike analyses (accuracy) and duplicate analyses (precision) specified in the MWL Sampling and Analysis Plan. Matrix spike analyses are not routinely performed by the contract analytical

laboratories, and were not performed on the samples submitted. Since groundwater is a relatively inert matrix, sample matrix effects are not likely.

4.2.3 Surrogate Spike Analyses

Surrogate spike analyses, performed by the analytical laboratory to verify the accuracy of organic compound analyses, were all within acceptance limits. Percent recoveries are included in the analytical reports in Appendix F.

4.2.4 Holding Times

Holding times for samples submitted for analysis were within specified MWL Sampling and Analysis Plan holding times.

4.3 Nonconformance and Corrective Action

The MWL Sampling and Analysis Plan (Revision 0.0) requires that three borehole volumes be purged from each well prior to sampling. However, in the case of low-yielding wells, it is permissible to purge once to dryness, allow the well to recover, and then sample the groundwater (EPA, 1986b).

MWL-MW2 and MWL-MW3 have such low yields that they purge to dryness before stability of field measurements can be achieved. A complete record of purge parameters is included in this report, and the last three measurements prior to sampling do not always fall within the limits dictated in Section 2.3 of the MWL Sampling and Analysis Plan. In the case of these two wells, it is simply not possible to meet the required criteria and have sufficient groundwater remaining to be sampled.

5.0 Summary and Conclusions

During the September 1990 sampling at MWL, samples were collected by dedicated pumping systems. All four wells were purged to dryness, allowed to recover, then sampled. Ground-water samples from MWL wells were analyzed for all RCRA ground-water quality, drinking water supply, and contamination indicator parameters (40 CFR 265, Subpart F), as well as RCRA Appendix IX parameters and selected radionuclides.

No volatile or semivolatile organic compounds were detected in any September 1990 samples from MWL wells. Total organic carbon (TOC) and total organic halogen (TOX) were not detected above method reporting limits in any MWL samples.

Total metals detected were barium, chromium, and zinc. Dissolved metals detected were barium, nickel, lead, and zinc. All metals detected were at concentrations below the limits defined in the New Mexico Water Quality Regulations.

Four inorganic constituents were detected in all MWL wells; chloride, fluoride, nitrate, and sulfate. All four constituents were detected at concentrations below the limits defined in the New Mexico Water Quality Regulations.

One inorganic constituent was found at concentrations above regulatory limits. Phenolics were detected in one sample, at 0.019 mg/L; the detection limit for the analysis was 0.010 mg/L, and the MCL (NMWQR) for phenolics is 0.005 mg/L.

Several radionuclides were detected in both unfiltered and filtered fractions. Be-7, C-14, Co-60, Mn-54, Pu-238, Pu-239/40, H-3 and Zn-65 were not detected in any MWL samples. Gross alpha activity was detected in all sample fractions at values from 5.10 pCi/L to 13.9 pCi/L; gross beta activity was measured in all sample fractions from 4.48 pCi/L to 7.28 pCi/L.

Table 8

Summary of Analytical Results
Sandia National Laboratories, Albuquerque
Mixed Waste Landfill
September 1990

Parameter	Reporting Limit, Units	MWL-BW1 Environmental Sample Result	MWL-BW1 Duplicate Sample Result	RPD	Acceptable?
Total Ba	0.010 mg/L	0.12	0.12	0	Yes
Total Zn	0.020 mg/L	0.096	0.097	1.0	Yes
Dissolved Ba	0.010 mg/L	0.12	0.13	8.0	Yes
Dissolved Zn	0.020 mg/L	0.074	0.086	15.0	Yes
Chloride	3.0 mg/L	28.8	28.1	2.5	Yes
Fluoride	0.10 mg/L	0.68	0.70	2.9	Yes
Nitrate (as N)	2.0 mg/L	6.0	6.1	1.7	Yes
Phenolics	0.010 mg/L	0.019	ND	NC	
Sulfate	5.0 mg/L	45.1	43.9	2.7	Yes
I-129	1.36 /0.760 pCi/L	2.67	ND	NC	
Ra-226	0.0988/0.0943 pCi/L	0.257	0.230	NC	NA[1]
Ra-228	0.480 /0.436 pCi/L	0.609	0.501	NC	NA
U-234	0.662 /0.646 pCi/L	6.60	6.38	NC	NA
U-235	0.0229/0.0276 pCi/L	0.0629	0.0833	NC	NA
U-238	0.262 /0.262 pCi/L	2.38	2.36	0.8	Yes
All other parameters		ND	ND	NC	NA

ND = Not detected.
NA = Not applicable.
NC = Not calculable.
[1]Radionuclide analyses performed at varying reporting limits; therefore, meaningful RPD calculations cannot be made.