CUMMINGS RITER CONSULTANTS, INC.

DATA SUMMARY REPORT
SITE INVESTIGATION
WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
PROJECT NO. 93-132
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1.0 INTRODUCTION

Cummings/Riter Consultants, Inc. (Cummings/Riter) was retained by Westinghouse Electric Corporation (Westinghouse) to perform a site investigation at the Westinghouse Specialty Metals Plant located in Derry Township, Westmoreland County, Pennsylvania near the community of Blairsville (Figure 1). Specifically, the investigation involved review of historical aerial photographs, field reconnaissance, review of published geologic literature, drilling soil/weathered bedrock borings, shallow monitoring well installation and a sampling and analysis program for soil, groundwater, surface water and sediment. The scope of work is outlined in the Field Sampling Plan (Cummings/Riter, 1994b).

Sampling, analysis, and reporting of the results contained in this report were performed as a cooperative effort between representatives of Cummings/Riter and the Westinghouse Energy System Business Unit.

1.1 Objectives and Overall Approach

The objective of this program is to evaluate the nature and extent of compounds of interest (COI) in soils in the vicinity of potential source areas, shallow groundwater, surface water and sediment, and obtain an understanding of the shallow hydrogeologic regime at the Specialty Metals Plant. The investigative tasks performed or directed by Cummings/Riter to accomplish the aforementioned objectives included the following:

- Sump/basin reconnaissance;
- Historical aerial photograph review;
- Field reconnaissance;

- Preparation of a field sampling plan and a health and safety plan;
- Shallow monitor well installation;
- Shallow groundwater, soil, surface water and streambed sediment sampling and analysis; and
- Preparation of this Data Summary Report.

1.2 Site Description

The Westinghouse Specialty Metals Plant is located on approximately 485 acres along Township Road 966, which terminates at the plant. The facility is located south and west of the Conemaugh River, immediately upstream of the confluence between Blacklick Creek and the Conemaugh River, approximately two miles northwest of the town of Blairsville, Pennsylvania (Figure 1). The Westro Building, Zircaloy Building, Main Building Shop, Industrial Waste Treatment Plant, Maintenance Shop and Machine and Die Shop comprise the major buildings at the facility (Figure 2). Additional site features include the sludge drying beds, septic leach beds, sand filters, a 250,000-gallon water tank, an aeration pond, a man-made pond used for plant process water and paved parking/access areas. Eight former (inactive) groundwater supply wells and one active groundwater supply well are present at the facility, as shown on Figure 2.

1.3 Production at the Site

The Specialty Metals Plant was founded in 1955 as a research and development manufacturing facility for Westinghouse. Westinghouse began manufacturing zircaloy tubing in 1967. The Specialty Metals Plant historically manufactured two lines of nuclear grade tubing, including stream generator tubing and fuel clad tubing. The plant currently manufactures only fuel clad tubing. Manufacture of the tubing includes the use of a variety of lubricants, solvents, acid pickle solutions and alkaline cleaners. Several spent solutions and/or materials used in the plant process are managed as hazardous wastes under the Resource Conservation and Recovery Act (RCRA). These materials are treated and disposed of off site.

During the period from approximately 1955 to 1961, fuel manufacturing operations were conducted at the Specialty Metals Plant using enriched uranium in both metal and oxide forms. This involved both highly enriched uranium for the naval fuel program (under

subcontract with the Bettis Atomic Power Laboratory for U.S. Atomic Energy Commission work) and low enriched uranium for atomic power plants (under License SNM-47 from the U.S. Atomic Energy Commission).

1.4 PREVIOUS CHARACTERIZATION HISTORY

This section summarizes events which occurred at the Specialty Metals Plant that are pertinent to the environmental characterization of the site.

Westinghouse contracted Acres American, Inc. (Acres) to perform the following in 1981:

- RCRA Waste Management Program Report,
- Preliminary RCRA Assessment Report, and
- Water Quality Evaluation Addendum to the RCRA Assessment.

The results for each of these studies, as described in their respective reports, are summarized below.

1.4.1 RCRA Waste Management Program Report (Acres, 1981a)

Westinghouse retained Acres to assist in the development of a waste management plan. Acres reviewed existing plant procedures and, where necessary, recommended alternative waste handling practices which were deemed to be environmentally sound and to the extent possible, compatible with Westinghouse's management and economic policies.

1.4.2 Preliminary RCRA Assessment Report (Acres, 1981b)

Westinghouse retained Acres to conduct a limited investigative program to evaluate the Specialty Metals Plant production activities. The investigative program for this study was designed to provide a preliminary overview of the geologic, hydrologic and water quality characteristics at the site.

Based on the literature review, the investigative boring program and the initial water quality analyses, Acres reached several conclusions. These included the following:

- The geology at the site typically consists of a sandstone bedrock which is overlain by a zone of weathered rock and thin surficial soils. In general, the unconsolidated soil and rock overlying bedrock were

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reported to be less than 40 feet thick over most of the site. According to Acres, the thickness of these unconsolidated deposits (particularly the weathered rock zone) is variable from location to location.

- Borings drilled in the fill area northeast of the facility (Figure 2) did not encounter groundwater above bedrock.

- The depth to groundwater observed in three of the four shallow monitoring wells installed at the Specialty Metals Plant ranged from approximately five to ten feet below the ground surface during the Acres study. Groundwater flow direction within the shallow groundwater bearing unit was reported to be toward the Conemaugh River.

- In general, initial analysis of both groundwater and surface water indicated that for the majority of parameters, concentrations were below the drinking water standard or the range of values typical of water quality within the area. However, Acres indicated that several parameters at specific locations should be subject to additional monitoring in order to assess their significance with regard to background water quality. Specific parameters recommended by Acres for analysis in subsequent samples included pH, iron, manganese, fluorides, nitrate, gross beta, total organic carbon, chromium and specific conductance.

1.4.3 Water Quality Evaluation Addendum to the RCRA Assessment (Acres, 1981c)

The primary objective of this investigation was to collect additional water quality data for evaluating the impact of the Specialty Metals Plant operations on surface water and groundwater at the facility. The investigation involved sampling groundwater from four shallow monitoring wells and surface water from eight locations. The report stated that the analytical results indicated that groundwater and on-site surface water contained concentrations of both inorganic and organic compounds requiring additional study to define the extent of these compounds and to evaluate remedial measures to reduce or isolate these compounds.

1.4.4 Surface Water and Groundwater Sampling and Analysis Report (Cummings/Riter, 1994a)

In 1993, Westinghouse retained Cummings/Riter to perform sampling of surface water and groundwater from existing sample locations for analysis of volatile organic compounds (VOCs). The sampling and analysis program indicated that Target Compound List (TCL) VOCs were present in one of three surface water routes located east (downstream) of the Specialty Metals Plant. The compounds detected in surface water were trichloroethene (26 micrograms per liter [µg/l]) and methylene chloride (3 µg/l). TCL VOCs were not detected in surface water samples collected upstream of the Specialty Metals Plant or in two of the three surface water courses sampled downstream of the plant.

Groundwater samples were collected from two piped drainages, two monitoring wells and three groundwater supply wells (one active and two inactive). VOCs were not detected in the sample collected from the current groundwater supply well (DW-2). TCL VOCs were detected in other groundwater samples collected.

1.5 Previous Remediation History

This section summarizes reported environmental remediation activities that have been completed at the site.

1.5.1 Underground Waste Hydrofluoric Acid and Methylene Chloride Storage Tank Remediation

In 1983, two 21,000-gallon underground waste hydrofluoric acid and methylene chloride/water mixture storage tanks located approximately 200 feet west of the Industrial Waste Treatment Plant (Figure 2) were closed in place in accordance with the Pennsylvania Department of Environmental Resources (PADER) approved Closure Plan (Westinghouse, 1982).

The buried polyvinyl chloride (PVC) lines leading from the Zircaloy Building to the two waste storage tanks (Figure 2) were excavated and removed during the underground storage tank closure.

1.5.2 Westro Underground Waste Oil Tank BV-2086

The Westro Waste Oil Tank (BV-2086) and the drum unloading area/oil dumping pit located at the southeast corner of the Westro Building (Figure 2) were closed in 1986 in accordance with a Closure Plan prepared and implemented by SSS Company (SSS Company, 1986). The former underground waste oil tank was triple rinsed with high pressure water, and the unloading pit was steam cleaned and triple rinsed using high pressure steam. The former underground storage tank integrity was tested by Photoleak Detection Company and reportedly passed. Following removal of the tank, the underlying gravel was removed and the underlying residual soil inspected for stains, odors and oily texture. No physical evidence of any of these characteristics was reported. Verification samples were not collected. Both the former waste oil tank excavation and unloading pit areas were backfilled with clean fill and contoured to existing grade.

1.5.3 Above-Ground 15,000-Gallon Trichloroethene/1,1,1-Trichloroethane Storage Tank

In 1986, the Specialty Metals Plant discontinued use of trichloroethene and 1,1,1-trichloroethane in the plant manufacturing process. The solvent contained in the 15,000-gallon above-ground trichloroethene/1,1,1-trichloroethane storage tank located at the south end of the Westro Building (Figure 2) was intentionally drained. The storage tank was cleaned and removed from operation in 1988.

1.5.4 Sludge Drying Beds

In 1983, sludge contained in the waste water treatment plant sludge drying beds (Figure 2) was removed, and the bed liners were patched. In 1987, the sludge drying bed liners were replaced with 45 mil Hypalon as part of a waste water treatment plant upgrade.

1.5.5 "Triclene" Pits

Two concrete lined pits located in the southern portion of the Westro Building (Figure 2) were drained and backfilled from 1985 to 1986.

1.5.6 Underground Gasoline Storage Tanks

Two 3,000-gallon underground fiberglass gasoline storage tanks located at the northeast corner of the Main Building Shop Area (Figure 2) were removed in 1990 by CECOS International, Inc. of Niagara Falls, New York. One tank contained leaded gasoline and

the other contained unleaded gasoline. Soil associated with the tank excavation was sampled and analyzed for petroleum hydrocarbons, lead, benzene, toluene and xylenes. Sample analytical results from post-excavation sampling and soil borings advanced by Environmental Resources Management, Inc. to estimate the extent of the required soil excavation are included as Appendix A. The soil remediation was completed in 1991.

1.5.7 Main Building Gage Laboratory Sump and Flooring

A concrete lined sump, material contained in the sump and portions of the plant flooring, located in the Main Building Gage Laboratory (Figure 2) were removed in December 1994. The sump excavation measured 49 inches wide by 81 inches long by 82 inches deep. Five cast iron pipes were observed in the excavation sidewalls. The pipes were not removed during the sump excavation. Post-excavation samples were collected from two locations on the excavation sidewalls and one location on the excavation floor. The excavation was dry upon completion. The sump was backfilled with crushed stone and sand and the surface finished with concrete to floor grade.

1.6 Environmental Permits and Discharge Limitations

The Westinghouse Specialty Metals Plant operates under U.S. Environmental Protection Agency (USEPA) Identification No. PAD005000625 as a large quantity generator. The facility maintains a National Pollutant Discharge Elimination System (NPDES) Permit (No. PA0000892). The current permit, which technically expired in 1992, places discharge limitations on flow and the following constituents: ammonia, chromium, cyanide, nickel, fluoride, oil/grease, suspended solids, pH and methylene chloride. Beryllium, mercury and pentachlorophenol are included within the permit as "monitor only" constituents. Appendix B contains the NPDES permit which includes the discharge limitations. An application for NPDES permit renewal has been submitted to PADER.

2.0 PLANT PROCESS DESCRIPTION

The Specialty Metals Plant is a world-class manufacturer of nuclear-grade tubing. The Specialty Metals Plant historically manufactured two lines of tubing, including steam generator tubing and fuel clad tubing. Since 1983, the fuel clad tubing alone has been produced. The manufacturing process is described briefly as follows:

- **PILGERING**
  Through the cold pilgering process, tube reduced extrusions (TREX) are reduced in size from 2.5 inches in diameter to final size tubes as small as .267 inches in outside diameter (O.D.). Pilger operators meet these exacting standards by sending the material through the automated cold pilger machine in a series of passes. The tubing quality is monitored throughout the process.

- **PICKLE/ANNEAL**
  Between each pilger pass, tubes are cleaned, pickled and annealed. In the pickle house, the tubes are cleaned in an alkali solution then pickled in a mixture of hydrofluoric and nitric acids. Both hot-wall and cold-wall vacuum annealing furnaces are used for heat-treating.

- **FINISHING**
  Once the tubes are cold pilgered to size and have completed the pickle/anneal cycle, they are moved to finishing. At this point in the process, they undergo a series of steps: straightening, grit blasting, precision cutting, end deburring, polishing and final cleaning. During the entire process, the material undergoes several in-process checks. When a tube has completed the finishing portion of the process, it is complete and ready for inspection.

- **INSPECTION**
  Once the tubes are complete, they undergo ultrasonic testing and visual inspections. The ultrasonic test checks for flaws and diametrical wall dimensions. Other inspections include checks of the length of the tubes and squareness of the end-cuts, and visual inspection of the inside and outside surfaces of the tubes. Throughout the inspection process, inspectors are ensuring that the tubes meet the stringent criteria for nuclear-grade cladding.

- **LAB TESTING**
  Concurrent to the inspection process, laboratory tests are conducted to certify that the product meets all customer requirements. Samples from each lot undergo physical and metallographical laboratory testing using tensile testers, autoclaves and gas analyzers.

3.0 FIELD INVESTIGATION

A field investigation was conducted by Cummings/Riter to obtain additional information at the Specialty Metals Plant. The investigation focused on site soils in the vicinity of potential source areas, shallow groundwater, surface water, and streambed sediment at the Specialty Metals Plant. The investigation tasks performed or coordinated by Cummings/Riter included the following:

- Sump/basin reconnaissance,
- Historical aerial photograph review/field survey,
- Soil borings,
- Shallow monitor well installation, and
- Shallow groundwater, soil, surface water, and sediment sampling and analysis.

This section outlines the procedures followed during the performance of each element of the field investigation.

3.1 SUMP/BASIN RECONNAISSANCE

In order to evaluate potential source areas at the Specialty Metals Plant, Cummings/Riter personnel reviewed existing Westinghouse site drawings to identify any sumps and basins. Cummings/Riter performed a field reconnaissance on October 11, 1994 to evaluate the sumps and basins, and found that the former "triclene" pit (Figure 3) in the Westro Building had been filled-in with several feet of concrete. No other active or former sumps or basins were identified during the field reconnaissance.

3.2 HISTORICAL AERIAL PHOTOGRAPH REVIEW/FIELD SURVEY

Cummings/Riter personnel reviewed copies of historical aerial photographs of the site dated 1957, 1967, 1974 and 1982 provided by the U.S. Department of Agriculture, Soil Conservation Service Office, Westmoreland County, Pennsylvania. Several former areas of usage on disturbed areas were identified from the photographs in the vicinity of the Specialty Metals Plant, including locations north of the railroad tracks, an area west of the plant, and two areas east of the plant (Figure 4).

On October 11, 1994, each identified area was evaluated by performing field monitoring using an organic vapor analyzer (HNu) at ground level operated by Cummings/Riter personnel, and radiological monitoring at ground level operated by Nuclear Support Services, Inc. (NSSI) personnel. Approximate locations of identified areas are shown on Figure 4.

Slightly elevated (20 percent above background) radiological readings were reported in two areas north of the railroad tracks; one in a shallow depression or impoundment, the other along a path leading to a natural gas well location. A small pile of debris consisting of gloves, cable, railroad ties, and grease containers was identified just north of the railroad tracks about 2,200 feet west of the plant. Radiological readings were recorded at background levels at this location.

Radiological readings of twice background were detected in a field to the west of the north end of the Westro Building, approximately 150 to 200 feet west of the building. Additionally, radiological readings were 10 to 15 times background on top of the "sand mound" adjacent to the main guard station, north of the visitors parking lot, within the grid area established by Cummings/Riter, as described in Section 4.3.9. No other areas investigated in this field reconnaissance exhibited radiological readings above background. None of the areas identified HNu readings above background.

3.3 Subsurface Drilling and Monitoring Well Installation

As part of the field installation, 50 soil borings (B-1 through B-44, MW-5A through MW-10A) were advanced and five shallow monitoring wells (MW-6A through MW-10A) were installed at the Specialty Metals Plant. A series of soil and groundwater samples was collected for the purpose of characterizing site soils and shallow groundwater and to investigate for COI in product use and disposal areas at the facility.

3.3.1 Drilling and Soil Sampling Methodology

Forty-four soil borings (B-1 through B-44) were advanced for the collection of subsurface soil samples for laboratory analysis at the Specialty Metals Plant between October 17 and November 1, 1994. The soil boring locations are depicted on Figure 3.

Pennsylvania Drilling Company of Pittsburgh, Pennsylvania performed the drilling services under the technical direction of Cummings/Riter personnel. The soil borings outside known disposal areas were advanced using six-inch O.D. solid stem augers, with split-spoon samples collected continuously from ground surface using the Standard Penetration Test (SPT) apparatus. A standard two-inch O.D. split barrel (split spoon) soil sampler was driven 24 inches into the soil by dropping a 140-pound weight through a height of 30 inches. A three-inch O.D. split spoon sampler was also utilized in order to maximize sample recovery. The number of blows required to drive the sampler through each six-inch increment of soil was recorded by Cummings/Riter personnel.

The soil borings outside known disposal areas were terminated at the water table when elevated total organic vapor readings were detected in the borehole. If there were no elevated readings in the borehole, the boring was advanced to the top of weathered bedrock.

The soil borings located in the former disposal area northeast of the Specialty Metals Plant (B-39, B-40 and B-41) were advanced using six-inch O.D. solid stem augers, with split-spoon samplers collected at five-foot intervals using the SPT apparatus. Borings B-39, B-40 and B-41 were terminated at the base of the fill, upon encountering natural soil or bedrock.

Each soil sample was field screened for total organic vapors using the soil headspace technique. Radiation screening was also performed for each soil sample by an NSSI health physics technician. Each soil sample was visually inspected and logged by Cummings/Riter personnel. A portion of the soil was placed in the appropriate laboratory supplied sample bottles, labeled, and placed in coolers containing ice. A minimum of one soil sample from each boring was selected for laboratory analysis based on the field screening results. The soil sample analytical parameters are identified in Table 1. The remaining portion of the sample was placed in an appropriate bottle, catalogued, and submitted to Westinghouse for radioactive screening and storage. In a few instances, soil sample recovery was insufficient in size to provide Westinghouse a split sample for analysis.

Westinghouse performed the radiological characterization which consisted of an initial screening analysis of all samples received followed by more detailed analysis on selected samples at the Westinghouse Radiochemistry Laboratory located at the Waltz Mill Facility near Madison, Pennsylvania. In some cases, the samples selected for more detailed analysis by Westinghouse are splits of the samples selected for analysis by an independent laboratory.

The initial radiological screening of the samples consisted of counting the entire sample volume inside a shielded cave using a gamma spectrometer (Model GR-256) with a NaI detector. Two regions of interest (ROIs) were recorded, including the total spectrum and the Uranium Peak (185 Kev). The gross counts were normalized for the sample weight to provide a net counts per minute per gram of sample. These results are provided in Table 2. Although these results are qualitative, they do provide a rational basis for selection for further analysis and for comparative analysis.

Each soil boring was backfilled upon completion with cement-bentonite grout using the tremie method. The grout mixture consisted of one 94-pound bag of Portland Type I cement per approximately seven gallons of water and approximately five pounds of powdered bentonite.

The drill rigs, augers, split spoon samplers and sample rods, tools and related equipment were steam cleaned at a temporary site decontamination pad upon entering the site, between borings and prior to leaving the site. Decontamination activities were conducted on a 40-mil plastic-lined pad which was bermed to collect fluids generated during steam cleaning. The fluids generated during decontamination activities were contained in a 500-gallon poly tank for disposal by Westinghouse.

All drill cuttings and used personal protective equipment (PPE) accumulated during the field investigation were contained in 55-gallon open-top drums, labeled and transported to a designated storage area on site for disposal by Westinghouse. Boring logs are included as Appendix C to this report.

3.3.2 Monitoring Well Installation and Development

Five shallow monitoring wells (MW-6A, MW-7A, MW-8A, MW-9A and MW-10A) were installed at the facility between October 27 and November 1, 1994. The monitoring wells were designed to monitor the uppermost groundwater unit associated with the unconsolidated deposits and the upper weathered bedrock. The locations of the monitoring wells are depicted on Figure 3. The monitoring wells were drilled and installed by Pennsylvania Drilling Company under the technical direction of Cummings/Riter. The monitoring wells were screened at the first water-bearing unit encountered and ranged in depths from 20 to 27 feet.

The borings for Monitoring Wells MW-6A, MW-7A, MW-8A, MW-9A and MW-10A were advanced using six-inch O.D. solid stem augers, with split-spoon soil samples collected on five-foot intervals using the SPT apparatus. Field screening consisted of real time monitoring for total organic vapors using the headspace technique, and radiation screening by an NSSI health physics technician. Each soil sample was logged by Cummings/Riter personnel. A portion of the sample was placed in an appropriately labeled bottle, catalogued, and submitted to Westinghouse for radioactive screening and storage.

All monitoring wells were constructed using Schedule 40 PVC, threaded flush joint, two-inch inside diameter (I.D.) screen (0.01-inch slots) and riser pipe. The annular space was backfilled with an appropriately sized sand adjacent to the screen to a depth approximately two feet above the top of the screen. A minimum three-foot sodium bentonite pellet seal was placed above the sand pack to inhibit vertical migration along the borehole. The remaining annular space was backfilled with cement-bentonite grout using the tremie method. A locking four-inch diameter steel protective casing set in a six-inch concrete pad was installed over the well to protect the well from damage and surface water infiltration.

In addition, existing Monitoring Wells MW-2 and MW-3 were rehabilitated by repairing the two-inch I.D. PVC riser pipe on Well No. 3 and installing a locking four-inch diameter steel protective casing set in a six-inch concrete pad for Wells MW-2 and MW-3 to protect the wells.

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Proposed Monitoring Well MW-5A was not installed because the soil/weathered bedrock at this location was unsaturated. The boring for MW-5A was advanced to a total depth of 19 feet using six-inch O.D. solid stem augers and SPT apparatus. The boring was backfilled to ground surface upon completion with cement-bentonite grout using the tremie method.

The shallow monitoring wells (MW-6A, MW-7A, MW-8A, MW-9A and MW-10A) were developed using a clean PVC bailer attached to new dedicated polypropylene rope. A minimum of five well casing volumes of groundwater was removed during development from each monitoring well. Cummings/Riter personnel recorded the pH, specific conductance and temperature of the development water to evaluate the effectiveness of the development procedure. Well development equipment was steam cleaned prior to beginning development and between use at each well location. Development water was contained in the 500-gallon storage tank on site for disposal by Westinghouse. Monitoring well installation details are provided with the corresponding boring logs as Appendix C to this report.

3.4 SURFICIAL SOIL SAMPLING

Between October 12 and 14, 1994, 139 surface soil locations were sampled. The sample locations were located in the field by establishing two 25-foot sample grids at the former zircaloy burn area and the "sand mound" area (Figure 3). Samples from each location on the grid were obtained from a depth of zero to six inches and six to twelve inches below ground surface. Each sample was uniquely identified, catalogued, and submitted to Westinghouse for radioactive screening and storage. Field screening consisted of real time monitoring for total organic vapors using the headspace technique and radiation screening by an NSSI health physics technician.

Westinghouse performed the radiological characterization which consisted of an initial screening analysis of all samples received followed by more detailed analysis on selected samples at the Westinghouse Radiochemistry Laboratory at the Waltz Mill Facility located near Madison, Pennsylvania.

The initial radiological screening of the samples consisted of counting the entire sample volume inside a shielded cave using a gamma spectrometer (Model GR-256) with a NaI detector. The gross counts were normalized for the sample weight to provide a net counts per minute per gram of sample. Two ROIs were recorded, including the total spectrum and the Uranium Peak (185 Kev). These results for soil samples collected from the former zircaloy burn area and the "sand mound" area are summarized in Tables 3 and 4, respectively. Although these results are qualitative, they do provide a rational basis for selection for further analysis and for comparative analysis.

A portion of each soil sample was maintained at the site in a locked secure building. Each sample was logged in and chain-of-custody procedures were followed. Surficial soil samples were collected using stainless steel hand augers and split-spoon samplers. Sample equipment was decontaminated using the following procedures:

- Alconox detergent wash,
- Potable water rinse,
- Distilled/deionized water rinse,
- Methanol rinse,
- Distilled/deionized water rinse, and
- Air dry.

3.5 GROUNDWATER SAMPLING AND ANALYSIS

Following completion of well installation and development, groundwater was sampled from the seven shallow site monitoring wells (MW-2, MW-3, MW-6A, MW-7A, MW-8A, MW-9A, and MW-10A) and Groundwater Drain GW-1 (Figure 3). The groundwater samples were analyzed for the following compounds of interest:

- TCL VOCs,
- Target Analyte List (TAL) metals,
- Total petroleum hydrocarbons,
- Fluoride,
- Nitrate,
- Ammonia,
- Total organic carbon,
- Gross alpha,
- Gross beta,

- Total uranium,
- Uranium isotopes,
- Total radium, and
- pH.

Groundwater sampling for the seven shallow site monitoring wells was conducted approximately one week after the new monitoring wells were properly developed, allowing the wells to stabilize to static conditions before sampling. Prior to purging and sampling, the groundwater level and well depth for all wells were measured from a fixed point on the well casing. This point was used as the reference mark during the surveying of well head elevations and locations. The water table level and well depth were obtained using an electronic water level indicator. This instrument consists of a spool of dual conductor wire, a probe attached to the end, and an indicator. When the probe contacts the water surface, the circuit is closed and a meter light and/or buzzer attached to the spool will signal the contact. The bottom of the well was determined by resting the water level indicator on the well bottom. Measurements were made and recorded to the nearest 0.01 foot for the water level and the nearest 0.1 foot for the well depth. After water level and well depth measurements were completed, each well was purged of at least three well casing volumes using a clean dedicated Teflon bailer attached to new dedicated polypropylene rope prior to sampling. For two-inch diameter wells, the well casing volume is determined by the following formula:

$$= \frac{7.481}{144} \pi r^2 h = 0.163h$$

where: V = Volume (gallons)
r = Riser pipe radius (inches)
h = Standing water height as determined from water level measurements deducted from the well depth (feet)

A well stabilization test was performed during the purging of each well. Temperature, pH, and specific conductance were measured after fractional increments of the purge volume were removed. If the last three sets of readings were approximately constant, the

purging was considered complete. Constant levels were defined as ±10 percent for temperature, ±0.1 pH units, and ±10 percent for specific conductance measurements. If the readings did not stabilize, additional water was purged until the desired results were obtained.

In addition to the eight groundwater samples, one replicate sample, one rinsate (equipment) sample and trip blank samples (one per sample shipment) were submitted to the laboratory. Sufficient volume of one sample was collected to allow the laboratory to prepare a matrix spike and a matrix spike duplicate for analysis.

If a well purged dry (i.e., all standing water is removed) prior to removal of three well volumes, a well-stabilization test was not required. Such wells were sampled when enough water recharged the well to obtain a sample. The water level was recorded at the time of sampling.

Groundwater samples were collected with clean Teflon dedicated bailers attached to new polypropylene rope. Groundwater was poured slowly and at an even rate from the bailer directly into the appropriate container to minimize sample disturbance. Samples were placed in a container with ice immediately upon collection.

Groundwater sampling equipment was dedicated to each monitoring well. Water level indicator probes were decontaminated before initial use and between wells. Decontamination procedures for this equipment were as follows:

- Alconox detergent wash,
- Potable water rinse,
- Distilled/deionized water rinse,
- Methanol rinse,
- Distilled/deionized water rinse, and
- Air dry.

Following completion of sampling activities, dedicated rope and bailers were air dried, wrapped in a plastic bag, labeled, and stored in a secure building at the Specialty Metals Plant.

To identify and track each sample through shipping and laboratory analysis, the following documents were prepared:

- Sample labels,
- Chain-of-custody forms, and
- Sample log sheet.

The labels included the project number, project name, sampler's name, sample medium, sample preservative, type of sample (grab or composite), sample number, location, date and time.

Sample logs were used to make entries at each sampling station and included all information recorded on sample labels, field measurements and observations, including sample color and odor.

Possession of samples collected during the field investigations were traceable from the time the samples were collected until they or their derived data were used as evidentiary material. Custody procedures were followed to maintain sample possession.

The samplers were personally responsible for the care and custody of the samples collected until they were properly transferred or dispatched. Sample labels were completed using waterproof ink.

3.6 Surface Water and Sediment Sampling and Analysis

Surface water and sediment samples were collected to evaluate the relationship between shallow groundwater and surface water/sediment and further evaluate the presence of COI in each of these media. Surface water and sediment were sampled and analyzed at four locations (SW-1, SD-1; SW-2, SD-2; SW-3, SD-3; and SW-4, SD-4) for the COI identified in Section 3.5. Seven additional sediment samples (SD-A, SD-B, SD-C, SD-D, SD-E, SD-F, and SD-G) were obtained at the locations shown and/or described on Figure 3. These sediment samples were catalogued and submitted to Westinghouse for radioactivity screening and additional radiochemistry testing at the Westinghouse Radiochemistry Laboratory at the Waltz Mill Facility located near Madison.

Pennsylvania. Sample SD-1 was not reportedly received by Westinghouse, and therefore was not analyzed. Field screening at each surface water and sediment location was performed using an organic vapor analyzer and a radiation survey meter for health and safety purposes.

Surface water samples were collected by gently submerging a clean laboratory supplied container beneath the water surface and filling the appropriate sample bottles. Sediment samples were collected from the upper six inches of sediment using stainless steel sample trowels. The samples were collected from downstream locations first, followed by upstream locations to minimize sample disturbance.

The sample trowels were cleaned using procedures outlined for groundwater sampling equipment. Sample documentation and chain-of-custody for surface water and sediment were identical to procedures followed for groundwater sampling.

3.7 GROUNDWATER LEVEL MEASUREMENT

The groundwater level for each monitoring well and surface water level for the on-site pond were measured and recorded November 10, 1994. The water levels and elevations are presented in Table 5. Groundwater and surface water levels were measured using an electronic water level indicator and recorded to the nearest 0.01 foot. All readings were measured from a surveyed reference point on the top of the well casing of each monitoring well and a stationary point located on an existing dock at the on-site pond.

3.8 SURVEYING

Borings B-1 through B-44 and MW-5A, the five new monitoring wells (MW-6A, MW-7A, MW-8A, MW-9A, and MW-10A) and the two existing wells (MW- 2 and MW-3) were surveyed for horizontal location and vertical elevation by Land Surveying Services of Bridgeport, West Virginia. The elevation of the ground surface, top of PVC riser pipe, and top of steel protective casing were surveyed for each monitoring well. The horizontal coordinates and elevation in feet above mean sea level (MSL) for each soil boring advanced and monitoring well installed as part of this investigation are provided on each respective boring log (Appendix C). In addition, a reference point on the dock extending into the on-site pond was surveyed to determine pond level elevations.

4.0 SPECIFIC AREAS INVESTIGATED

The review of existing information, site reconnaissance and discussions with Westinghouse enabled the development of a sampling and analysis program. The correlation between the sampling program (Section 3.0) and specific site features is described in the following sections. Figure 3 depicts the surveyed location for each sample collected.

4.1 WASTE WATER COLLECTION AND TREATMENT SYSTEMS

The wash water from inside the buildings and laboratory waste water are channeled via floor drains and sinks to the industrial waste water treatment plant. However, the floor drains beneath the hazardous material drum storage area are plugged and do not contribute to flow to the industrial waste water treatment plant. The Specialty Metals Plant maintains an on-site septic system which handles waste water generated from the bathrooms, showers and drinking fountains only. Two soil borings (B-37 and B-38) were drilled and one monitoring well (MW-9A) was installed adjacent to the industrial waste water treatment plant and septic leach beds as part of this study.

4.2 STORM WATER COLLECTION AND DISCHARGE SYSTEM DESCRIPTION

Storm water drainage from the majority of the site is collected and channeled through a series of storm sewers which discharge at Outfall 002 located between the waste water treatment sludge drying beds and the septic leach beds. Outfall 002 forms the headwaters of an unnamed tributary which flows east to the Conemaugh River. Surface water drainage from areas north of the Westro Building and Zircaloy Building in the vicinity of the aeration pond generally flows north to a shallow swampy area. The pond located at the southern limit of the Westinghouse property receives surface water drainage from the west and supplies the plant with process water, estimated at 70,000 to 90,000 gallons per day. Three shallow unnamed tributaries drain the eastern limits of the site and flow east toward the Conemaugh River (Figure 2), the southernmost of the three receiving overflow from the pond. A total of 11 sediment samples and 4 surface water samples were collected during this investigation from surface water drainage channels downstream from the Specialty Metals Plant (Figure 3).

4.3 STORAGE, CONVEYANCE LINES AND/OR DISPOSAL AREAS

The Specialty Metals Plant maintained a series of above ground and underground storage facilities, conveyance lines and disposal areas. Many of these areas are no longer in use, and many have been remediated as described in Section 1.5. Each of these features is discussed below.

4.3.1 Former Above Ground Trichloroethene/1,1,1-Trichloroethane Storage Tank Area

A 15,000-gallon above ground tank located south of the Westro Building was used to store trichloroethene and 1,1,1-trichloroethane. The tank was removed in 1988. Existing Monitoring Well MW-3 (Figure 3) is located approximately 100 feet from the former storage tank area. Groundwater analytical results for Well MW-3 are provided in previously documented reports (Acres, 1981b, and Cummings/Riter, 1994a). Two soil borings (B-1 and B-2) were advanced adjacent to the former storage tank as part of this investigation.

4.3.2 Former "Triclene" Pit

The Specialty Metals Plant maintained a concrete-lined pit within the southern limits of the Westro Building. The pit was known as the "Triclene" pit and was utilized to contain both trichloroethene and 1,1,1-trichloroethane during the cleaning of manufactured tubing. In 1985, the "Triclene" pit was drained, backfilled with gravel, and the surface concreted to match the existing plant grade. Existing Monitoring Well MW-3 (Figure 3) is located approximately 250 feet from the former "Triclene" pit. Four soil borings (B-1 through B-4) were advanced adjacent to the Westro Building to evaluate the former "Triclene" pit.

4.3.3 Former Underground Waste Hydrofluoric Acid and Methylene Chloride Storage Tank Area

The former 21,000-gallon underground waste hydrofluoric acid and methylene chloride storage tanks were located approximately 200 feet west of the Industrial Waste Treatment Plant. This area was utilized to store the waste fluids prior to loading into tankers for off-site disposal at a licensed facility. Monitoring Well MW-1 was installed adjacent to the underground storage tanks in 1981. Groundwater analytical results for Well MW-1 are

provided in Acres, 1981b. However, this well was unable to be located during the 1993 sampling and analysis program conducted by Cummings/Riter. Two soil borings (B-32 and B-33) were advanced adjacent to the former underground storage tanks (Figure 3).

4.3.4 Former Underground Lines to Waste Acid and Solvent Storage Tanks

The former underground PVC conveyance lines were utilized to transfer waste hydrofluoric acid and methylene chloride from the Zircaloy Building and the Main Building Shop Area to the 21,000-gallon underground storage tanks. Twelve soil borings (B-8 through B-18 and B-34) were advanced along the former underground conveyance lines as part of this investigation (Figure 3).

4.3.5 Sludge Drying Beds

The industrial waste treatment plant sludge drying beds are located approximately 150 feet southwest of the Industrial Waste Treatment Plant. The beds are lined with 45 mil Hypalon. According to Westinghouse personnel, shallow groundwater is drained from the sludge drying beds using an active drain system which discharges at GW-1 (Figure 3). GW-2 was a former groundwater drain for the same area which appears to be plugged and exhibits limited groundwater flow. Existing Monitoring Well MW-2 is located adjacent to the sludge drying beds. Two soil borings (B-35 and B-36) were advanced at locations adjacent to the two sludge drying beds. In addition, groundwater from GW-1 was sampled.

4.3.6 Former Zircaloy Burn Pit Area

The former zircaloy burn pit consisted of a 50-foot by 20-foot concrete pad built in 1959, with a three-sided, five-foot block wall for open incineration of zirconium chips. This area formerly contained an equipment storage building and a hematite and celestite storage building. The buildings in this area initially housed the radioactive waste collection, processing, packaging, storage and shipment activities. A 25-foot sampling grid was established over the former zircaloy burn pit and surrounding area. Surficial soil samples were collected from depths of zero to six inches and six to twelve inches below ground surface at 117 locations established by the sample grid (Figure 3). Also, 12 soil borings (B-20 through B-31) were advanced to bedrock within the zircaloy burn pit area.

In addition to the soil sampling on a 25-foot grid spacing, a more detailed gamma spectrum survey was conducted in this area on a two-meter grid spacing. This survey was conducted by NSSI personnel using the Model GR-256 gamma spectrometer with a NaI detector. The area covered by this initial survey is smaller than that covered by the 25-foot grid soil sampling. Grid point B-1 is identical for both sampling/measurement tasks.

4.3.7 Monitored Waste Line to Evaporator

The monitored waste line conveyed waste fluids within the Main Building Shop Area to an evaporator located in the buildings near the zircaloy burn pit. Borings B-14, B-16, B-17, B-18, and B-19 were advanced near the monitored waste line to assess soil conditions in the vicinity of the former waste line (Figure 3).

4.3.8 Fill Area Northeast of Facility

A fill area was identified northeast of the Specialty Metals Plant and adjacent to Township Road 966. The fill area was created by disposal along a steep slope adjacent to the Conemaugh River. Borings B-39, B-40, and B-41 were advanced through the fill material and into the underlying soil. Monitoring Well MW-4 was reportedly located near the fill area but could not be located. According to a previous report (Acres, 1981b), Well MW-4 was previously dry. A boring was advanced for installation of Monitoring Well MW-5A (Figure 3). However, the soil and upper weathered bedrock in the vicinity of the fill area was dry, and the shallow monitoring well was not installed at Location MW-5A.

4.3.9 Fill Area North of Visitors Parking Lot

A linear fill area (sand mound) was identified northeast of the Main Building Shop Area and immediately north of an asphalt parking lot. This area consists of a slight mound with evidence of stressed vegetation. A 25-foot sampling grid was established over the fill area. Surficial soil samples were collected from depths of zero to six inches and six to twelve inches below ground surface at 22 locations established by the grid (Figure 3). In addition, two soil borings (B-42 and B-43) were performed in this area during the investigation.

In addition to the soil sampling on a 25-foot grid sampling, a more detailed gamma spectrum survey was conducted on a two-meter grid spacing. This survey was conducted using the Model GR-256 gamma spectrometer with a NaI detector. The results of the survey are shown on Figure 16. The area covered by this survey was larger than that covered by the 25-foot grid soil sampling. Figure 3 shows the outline of the area covered by the gamma spectrometer survey along with the soil sample locations.

4.3.10 Former Underground Waste Acid Tank

An underground concrete storage tank located at the southeast corner of the Westro Building was used to store waste acid. The tank was reportedly closed in-place and is no longer used in the plant process. Boring B-5 was advanced near the former waste acid tank (Figure 3).

4.3.11 Former Underground Waste Oil Tank/Drum Unloading Area/Oil Dump Pit

The former underground waste oil tank and the drum unloading area and oil dump pit were located southeast of the Westro Building. This area was used for waste oil storage/transfer prior to loading into tankers for off-site disposal at a licensed facility. Boring B-6 was advanced to bedrock adjacent to this area (Figure 3).

4.3.12 Existing Underground Waste Oil Tank

An 18,000-gallon underground waste oil tank located west of the Maintenance Storage Building is used to store waste oil prior to off-site disposal. Boring B-7 was advanced adjacent to the existing storage tank (Figure 3).

5.0 GEOLOGIC SETTING

5.1 REGIONAL SETTING

Cummings/Riter reviewed published geologic reference material covering the study area to develop an understanding of the regional geologic setting for the Specialty Metals Plant area. The results of this review are provided in the following subsections.

5.1.1 Physiography and Topography

The Specialty Metals Plant is in the Unglaciated Allegheny Plateau section of the Appalachian Plateaus physiographic province (Fenneman, 1938). The Unglaciated Allegheny Plateau is characterized by low, broad ridges, although there are many valleys with relief of several hundred feet. The major drainage feature for this area is the Conemaugh River located north and east of the Specialty Metals Plant. The Conemaugh River flows northwest and joins Loyalhanna Creek at Saltsburg to form the Kiskiminetas River.

5.1.2 Unconsolidated Deposits

During the Illinoian stage of glaciation, the aggradation of the Allegheny Valley region by glacial gravels blocked the mouths of the tributary streams from the nonglaciated terrain to the south and caused them to deposit much of their load. After the streams had completed their post-Illinoian downcutting, in part in wholly new courses, these sediments remained as a veneer over the rock terraces and abandoned reaches. These high stream-laid terrace deposits, free from ice-borne material of distant origin, and contemporaneous with the early glacial valley train, are known as the Carmichaels Formation (Piper, 1933).

According to Piper (1933), the most extensive deposits of the broad terraces within the Kiskiminetas basin occur at an altitude of about 1,040 feet above MSL along the Conemaugh River between Blairsville and Tunnelton. The Carmichaels Formation is composed largely of sand, silt and clay of local derivation, with some deeply weathered boulders.

In addition to the terrace deposits, residual soils formed from weathering of the underlying bedrock are present in the site vicinity. The residual soils are locally indistinguishable from the more prominent terrace deposits.

5.1.3 Bedrock

Surficial bedrock in the vicinity of the Specialty Metals Plant belong chiefly to the Conemaugh Group of the Pennsylvanian subsystem (Figure 5). Typical bedrock consists of sandstones, shales, limestones, claystones, and coals (Figure 6).

The Pennsylvania Allegheny Group underlies the Conemaugh Group and consists of cyclic sequences of sandstone, shale, limestone clay, and coal. Based on the structure contours drawn on the Upper Freeport Coal Seam (Figure 7), the Upper Freeport Coal Seam is located approximately 300 feet below the Specialty Metals Plant. According to geological maps presented in Piper (1933), the geologic unit underlying the Specialty Metals Plant corresponds to the Saltsburg Sandstone member. The Saltsburg Sandstone generally lies from 170 to 285 feet above the Upper Freeport Coal. The rock is typically massive, fine-grained, and white, gray or yellow in color. Within short distances, it may grade into a very thin-bedded argilaceous sandstone or a bluish-gray sandy shale or, less frequently, into a coarse-grained or even pebbly irregularly bedded rock (Piper, 1933).

Eight natural gas wells have been drilled and placed into production at the Westinghouse property. Each of the natural gas wells was advanced to a depth of approximately 3,600 feet below ground surface. The approximate natural gas well locations are provided on Figure 1.

5.1.4 Structure

The Specialty Metals Plant is located in an area where the bedrock units are folded into a series of anticlines and synclines which generally have a northeast-southwest trend. Specifically, the facility is located approximately 0.6 miles northwest of the axis of the Fayette Anticline and approximately 1.5 miles southeast of the Greensburg Syncline (Figure 5). Based on this location, in addition to structure contours drawn on the Pittsburgh Coal Seam (Wagner, 1975), the rocks underlying the Specialty Metals Plant would be expected to dip to the northwest at a rate of approximately 160 feet per mile.

However, as shown on Figure 7, the structure contours drawn on the Upper Freeport Coal (Figure 7) indicate a dip to the northeast at a rate of approximately 170 feet per mile, in response to the northeast plunging Fayette Anticline.

5.2 SITE GEOLOGY

Information from previous site investigations and observations during this site investigation, along with the published geologic reference material for the site area, was utilized to provide an understanding of the site geologic setting, as discussed in the following subsections.

5.2.1 General

The Specialty Metals Plant is located in the Unglaciated Allegheny Plateau section of the Appalachian Plateau physiographic province on a broad, gently sloping ridge with steep slopes north and east of the facility adjacent to the Conemaugh River (Figure 1). Surface water drainage is generally west across the site via three shallow drainage channels which have been modified by the plant construction, the adjacent railroad bed and the formation of a large man-made pond at the southern limits of the site. Each of these drainage channels ultimately flows to the Conemaugh River. Surface elevations at the facility range from 980 to 1,000 feet above MSL, as compared to the approximate local Conemaugh River elevation of 905 feet MSL.

Review of existing site boring logs and published geologic reports covering the subject site area indicates the Specialty Metals Plant is underlain by fill material placed during plant construction, terrace deposits belonging to the Carmichaels Formation (Quaternary), residual soils formed from in-place weathering of bedrock, and sandstone belonging to the Glenshaw Formation of the Pennsylvania Age Conemaugh Group. Each of these units is discussed further in the following sections.

5.2.2 Unconsolidated Deposits

Boring logs completed for collection of soil samples and monitoring well installation indicate that the unconsolidated deposits immediately underlying the Specialty Metals Plant are variable in nature and generally consist of brown, orange and gray, clayey silt, silty clay, and fine-to-medium grained, silty sand, with variable amounts of rock

fragments. The unconsolidated deposits ranged in thickness from 5 feet (B-37) to greater than 27 feet (B-39 and MW-10A). The average thickness of unconsolidated deposits for borings encountering bedrock was approximately ten feet.

Many of the borings encountered fill consisting of brown and gray, clayey to sandy silt, with cinders, slag, and rock, wood and glass fragments. The unconsolidated deposits were locally saturated. Hydrostratigraphic Cross Sections depicting the unconsolidated deposits are provided on Figures 8 and 9.

5.2.3 Bedrock

The uppermost bedrock encountered at the Specialty Metals Plant consists of brown to gray fine-to-medium grained sandstone, with gray shale interbeds. This unit corresponds to the Saltsburg Sandstone unit (Figure 6), based on the reported elevation of the Upper Freeport Coal Seam beneath the Specialty Metals Plant.

The first mineable coal seam underlying the Specialty Metals Plant is the Upper Freeport Coal Seam, located approximately 300 feet below ground surface. According to the U.S. Department of the Interior, Office of Surface Mining Reclamation and Enforcement, no underground coal mining has occurred beneath the Specialty Metals Plant.

Nine deep (greater than 100 feet in depth) borings were advanced at the Specialty Metals Plant for installation of groundwater supply wells (DW-1 through DW-9). The locations of each groundwater supply well (eight former and one active) are provided on Figure 2. No boring logs or well installation records are available for the groundwater supply wells.

The bedrock surface underlying the Specialty Metals Plant is somewhat variable, as depicted in the hydrostratigraphic cross sections (Figures 8 and 9).

6.0 HYDROGEOLOGIC SETTING

6.1 REGIONAL GROUNDWATER SETTING

Groundwater is known to occur in both unconsolidated deposits and bedrock in the surrounding area. Each of these water bearing units is discussed separately below.

6.1.1 Unconsolidated Deposits

The uppermost groundwater-bearing unit underlying the majority of the site area is associated with unconsolidated deposits comprised of terrace deposits of the Carmichaels Formation and residual soil formed from the in-place weathering of the underlying sandstone. The water-bearing properties of the Carmichaels Formation vary due to the variable texture, extent, and position of the deposits. Many of the thinner deposits of the Carmichaels, which lie on exposed terraces, are likely to be completely drained. On the broader terraces, however, groundwater may be encountered in the sandy and gravely layers of the formation. The primary source of recharge to these deposits is through direct recharge via precipitation. According to Piper (1933), groundwater yields up to five to ten gallons per minute can be developed where the coarse layers are not subject to drainage.

6.1.2 Bedrock

According to Piper (1933), the Conemaugh Formation is a productive source of groundwater. Sandstone members--the Connellsville, Morgantown, Saltsburg, Buffalo, and Mahoning sandstones--are especially productive over extensive areas.

Groundwater occurs in coarse grained, highly permeable zones of the member, which yield up to 100 gallons per minute where the member lies below drainage level. Locally, the massive sandstone members have been extensively fractured, and the joint openings serve as conduits for groundwater circulation. The shale members of the formation, together with the shale facies of the sandstone members produce limited (generally less than five gallons per minute) groundwater from bedding plane partings and from joint openings.

Locally, the collapse and subsidence of the roof above abandoned underground mine entries along the Upper Freeport Coal has induced drainage of the overlying basal members of the Conemaugh Formation so that they are not a source of groundwater. According to the U.S. Department of the Interior, Office of Surface Mining Reclamation and Enforcement, no underground coal mining has occurred beneath the Specialty Metals Plant.

6.2 SITE GROUNDWATER

This study focused on the shallow groundwater bearing unit immediately underlying the Specialty Metals Plant. Information obtained from the shallow soil borings and monitoring wells installed at the site indicates that the unconsolidated deposits are locally saturated and that the uppermost groundwater bearing unit is associated with the unconsolidated deposits and the underlying weathered bedrock. The borings also indicate that the shallow groundwater unit may not exist east of the Specialty Metals Plant along the steep hillside above the Conemaugh River, possibly due to increased stress relief fractures along the steep valley walls adjacent to the Conemaugh River which may allow drainage of the shallow groundwater into the more competent portion of the bedrock formation. According to Piper (1933), areas where unconsolidated terrace deposits (Carmichaels Formation) are located on exposed terraces, are likely to be completely drained.

Groundwater levels measured in the seven shallow site monitoring wells on November 10, 1994 were contoured as shown on Figure 10. The resulting piezometric surface map indicates that shallow groundwater flow tends to mimic surface topography, with flow generally from west to east across the site. The horizontal hydraulic gradient varies from upgradient (west) to downgradient (east) locations, with the gradient becoming much steeper east of the Specialty Metals Plant near Township Road 966. The average horizontal hydraulic gradient is approximately 0.02 foot per foot (ft/ft). The groundwater levels measured on November 10, 1994, ranged from 7 to 20 feet below ground surface, and are shown in cross section on Figures 8 and 9.

A staff gage was installed in the on-site pond to evaluate the relationship between surface water and shallow groundwater levels in site monitoring wells. Based on the one-time monitoring event conducted on November 10, 1994, the man-made pond appears to represent a groundwater recharge point for the local shallow groundwater unit, as evidenced by the pond surface water elevation (997.59 feet MSL), as compared to groundwater elevations in nearby monitoring Wells MW-3 (994.24 feet MSL) and Well MW-8A (990.38 feet MSL) (Figure 10).

The head relationship between the surface water drainage east of the facility adjacent to the sludge drying beds and the groundwater level in nearby Monitoring Well MW-2 indicates a potential for shallow groundwater discharge to the surface water drainage course in the vicinity of the sludge drying beds. However, further east, the groundwater level measured for Monitoring Well MW-9A on November 10, 1994 indicates a potential for surface water recharge to the shallow groundwater unit in the vicinity of Township Road 966, east of the Industrial Waste Treatment Plant. This relationship is depicted on Figure 8 (Cross Section A-A') and may be the result of increased fracturing of the shallow bedrock unit with depth in the vicinity of Township Road 966.

No natural springs or seeps were observed in the vicinity of the Specialty Metals Plant. However, Groundwater Drains GW-1 (active) and GW-2 (abandoned) were reportedly installed to intercept groundwater seepage in the vicinity of the existing sludge drying beds (Figure 3).

7.0 ANALYTICAL RESULTS

The analytical results for samples collected during the site investigation are included as Appendices D and E and discussed in the following subsections.

7.1 SOIL

Fifty-eight subsurface soil samples were collected for laboratory analysis from 44 soil borings performed as part of this investigation. An additional 139 surficial soil samples were collected for radiological testing by Westinghouse representatives. The soil samples selected for laboratory analysis and the analytical parameters tested are provided in Table 1. Additional soil samples selected and analyzed by Westinghouse for radiological parameters are discussed later.

7.1.1 Chemical Analysis

The results for soil headspace screening for each soil sample collected are provided on the appropriate boring log (Appendix C). Some soil samples exhibited total organic vapor results for headspace screening above background.

The laboratory analytical results for soil samples collected during the site investigation were compared to the *Interim Cleanup Standards for Contaminated Soils*, published by PADER (1993). This guidance document lists generic soil levels for a variety of substances and generally describes the methods and assumptions used to arrive at the levels. The use of these levels for a comparison is not intended to be a recommendation for their utilization as site-specific standards or criteria.

Two different groundwater protection levels are provided for each organic compound on the PADER list, depending on how recently the soil has become impacted. Level 1 is applicable to soils that have been impacted as a result of recent or continuing spills, leaks or discharges. Level 2 applies to soils that have been impacted by spills, leaks or discharges which occurred, in total, more than one year ago. The analytical results for soil samples

collected during this investigation were evaluated using the Level 2 criteria, as no known spills, leaks or discharges have occurred in the past year at the Specialty Metals Plant. In addition, many of the substances on the PADER list (i.e., trichloroethene) have not been used at the facility for more than five years.

The analytical results for soil samples and the PADER interim levels are provided in Table 6. Analytical results for pesticides, herbicides, and polychlorinated biphenyls (PCBs) were below method detection limits for all soil samples tested. Soil samples analyzed for semivolatile organic compounds were below method detection limits for all compounds, with the exception of di-n-butylphthalate in Sample B-24, S-2, with a reported concentration of 330 micrograms per kilogram (µg/kg). This reported concentration was just above the method detection limit of 320 µg/kg.

Soil samples exceeded the PADER reference levels for one VOC; trichloroethene (B-1, S-5), and one metal, nickel (B-39, S-5 and B-40, S-5). The soil sample analytical results were less than the PADER reference levels for all remaining samples tested. Sample B-1, S-5 was collected adjacent to the former 15,000-gallon above ground trichlorethene/ 1,1,1-trichloroethane storage tank located south of the Westro Building. Samples B-39, S-5 and B-40, S-5 were collected from fill material and soil underlying the fill material, respectively, northeast of the Specialty Metals Plant.

7.1.2 Radiological Analysis of Soil Borings

Table 2 presents the radiological screening results conducted by Westinghouse for samples collected from the soil borings, including the borings for monitor well installation. Figure 11 presents the normalized Uranium Peak data summarized in Table 2 in the form of a schematic fence diagram. These data are quantitative but do provide a basis for comparative review. Based on these results, 26 soil samples from Table 2 were selected for further radiochemistry analysis by the Westinghouse Laboratory at the Waltz Mill Facility located near Madison, Pennsylvania. These results are presented in Table 7. (The analytical laboratory data sheets are included in Appendix E). Using a ratio of 30 for total uranium to U-235, Table 7 indicates that several of the soil boring samples would exceed 30 pCi of uranium per gram of soil. The results presented in Table 6 for radiological parameters do not identify any samples which exceed the release criteria of 30 pCi/g for uranium in soil. However, in a few

cases, the results presented in Table 6 show isotopic ratios of U-234/U-238 that are indicative of enriched uranium rather than natural uranium (see the results for Samples B23, S1; B24, S2; B26, S1; B29, S1; and B30, S2). These samples are all located in the area of the zircaloy burn pit.

7.1.3 Radiological Analysis of Surface Soil

At two locations shown on Figure 3 (former zircaloy burn area and sand mound a. a) 25-foot surface sample grids were established for the purpose of collecting soil samples at depths of zero to six inches and from 6 to 12 inches below ground surface. These soil samples also underwent a screening analysis. The radiological screening data are presented in Tables 3 and 4. Graphically, these same results are presented on Figures 12, 13 and 14 as surface contour plots of radioactivity versus "xy" dimension for each sample depth. Based on Figure 13, the grid pattern selected for the former zircaloy burn area did encompass the area of elevated activity in the north and south directions but not in the east and west directions.

A number of the surface soil samples were selected by Westinghouse for further radiochemistry analysis by the Westinghouse Radiochemistry Laboratory at the Waltz Mill Facility. These results are presented in Table 7A (the analytical laboratory data sheets are included in Appendix E). Some of the samples indicate that the release criteria of 30 pCi/g for uranium in soil is exceeded.

Figure 12 shows a specific peak sample result for the zero to six-inch sample at the G-8 location. The results presented in Table 7A indicate the presence of enriched uranium.

7.1.4 Gamma Surveys of Surface Areas

In addition to the soil sampling programs described in Section 7.1.3, gamma spectrum measurements were made on a two-meter grid spacing for the former zircaloy burn area and the sand mound area. Figures 15 and 16 present the results for these two areas respectively.

7.2 SURFACE WATER/STREAMBED SEDIMENT

Surface water and sediment samples were collected from four downstream locations east of the Specialty Metals Plant. The samples were analyzed for the COI identified in Section 3.5 and identified as follows:

- SW-1/SD-1 - Surface water/sediment from drainage channel northeast of the Specialty Metals Plant, east of Township Road 966;
- SW-2/SD-2 - Surface water/sediment from drainage channel east of the Specialty Metals Plant, east of Township Road 966;
- SW-3/SD-3 - Surface water/sediment from drainage channel southeast of the Specialty Metals Plant, east of Township Road 966; and
- SW-7/SD-7 - Surface water/sediment from drainage channel east of the Specialty Metals Plant, at the confluence with the Conemaugh River.

The surface water and sediment sample locations are provided on Figure 3. The analytical results are summarized in Tables 8 and 9, respectively. Radiochemistry testing results performed by Westinghouse for sediment samples are summarized in Table 10.

Iron and manganese concentrations appear to be naturally elevated in site surface waters VOCs were below method detection limits for all parameters with the exception of trichloroethene. Samples SW-1 (7.5 µg/l) and SW-2 (50 µg/l) reported the presence of trichloroethene. However, the concentration of trichloroethene decreased to less than detection limits (5 µg/l), approximately 1,200 feet downstream from location SW-2 at the confluence with the Conemaugh River (SW-7).

VOCs above method detection limits were reported for sediment Samples SD-1, SD-2, and SD-3. Sample SD-1 contained cis-1,2-dichloroethene (26 µg/kg), trichloroethene (15 µg/kg) and vinyl chloride (81 µg/kg). Sample SD-2 was reported to contain cis-1,2-dichloroethene (13 µg/kg) and trichloroethene (35 µg/kg). Sample SD-3 was reported to contain methylene chloride at a concentration of 6.8 µg/kg.

It should be noted that none of the surface waters in the vicinity of the Special Metals Plant are utilized as a drinking water supply.

7.3 GROUNDWATER

As previously discussed, groundwater from seven shallow monitoring wells and one groundwater drain was sampled and analyzed as part of this investigation. The groundwater samples were analyzed for the COI identified in Section 4.5. The locations for Monitoring Wells MW-2, MW-3, MW-6A, MW-7A, MW-8A, MW-9A, MW-10A, and Groundwater Drain GW-1, which were sampled during this investigation, are provided on Figure 3.

The groundwater analytical results were evaluated by comparing the concentrations reported by the laboratory with the Pennsylvania Maximum Contaminant Levels (MCLs). Groundwater analytical results are presented along with the Pennsylvania MCLs in Table 11.

Two upgradient monitoring wells (MW-6A and MW-10A) were sampled during the site investigation. Groundwater sampled from Well MW-6A exceeded the MCL for total iron (17 milligrams per liter [mg/l]), total manganese (2 mg/l), and gross alpha (49 ±6 pCi/l). Groundwater sampled from MW-10A exceeded the MCL for pH (5.36), total iron (4.8 mg/l), and total manganese (0.37 mg/l).

The active groundwater drain (GW-1) reportedly drains shallow groundwater beneath the sludge drying beds to the nearby drainage channel (Figure 3). Groundwater sampled at GW-1 exceeded the MCL for pH (6.37), total iron (0.75 mg/l), total manganese (0.3 mg/l), and trichloroethene (150 µg/l).

Groundwater sampled from Monitoring Well MW-2, located downgradient of existing sludge drying beds, exceeded the MCLs for fluoride (2.7 mg/l), total iron (5.4 mg/l), total manganese (1.9 mg/l), trichloroethene (12 µg/l), and gross alpha (38 ±6 pCi/l).

Groundwater sampled from Monitoring Well MW-3, located south of the Westro Building, exceeded the MCLs for total iron (15 mg/l), total manganese (0.47 mg/l), 1,1-dichloroethene (21 µg/l), cis-1,2-dichloroethene (590 µg/l), trichloroethene (1500 µg/l), vinyl chloride (220 µg/l), and gross alpha (19 ±4 pCi/l).

Groundwater sampled from Monitoring Well MW-7A, located north of the Main Building Shop Area, exceeded the MCLs for pH (6.34).

Monitoring Well MW-8A was installed southeast of the Westro Building and approximately 200 feet north of the on-site pond (Figure 3). Groundwater sampled at Well MW-8A exceeded the MCLs for pH (5.97), total cadmium (0.01 mg/l), total iron (41 mg/l), total manganese (5.2 mg/l), and gross alpha (25 ±5 pCi/l).

Monitoring Well MW-9A was installed adjacent to Township Road 966, approximately 75 feet southeast (downgradient) from the Industrial Waste Treatment Plant Building (Figure 3). Groundwater sampled at Well MW-9A exceeded the MCLs for pH (6.44), total chromium (0.052 mg/l), total mercury (0.0027 mg/l), 1,1-dichloroethene (20 µg/l), cis-1,2-dichloroethene (3300 µg/l), tetrachloroethene (6 µg/l), trichloroethene (22,000 µg/l), vinyl chloride (49 µg/l), and gross alpha (20 ±4 pCi/l).

It appears as though the reported elevated levels of iron, gross alpha, low pH and manganese represent background conditions because of their ubiquity and consistent levels.

8.0 SUMMARY OF FINDINGS

The objective of this site investigation was to evaluate the nature and extent of COI in soils in the vicinity of potential source areas, shallow groundwater, surface water and sediment, and obtain an understanding of the shallow hydrogeologic regime at the Specialty Metals Plant.

The findings are summarized as follows:

- Unconsolidated deposits consisting of fill material, terrace deposits, and residual soil are present immediately beneath the Specialty Metals Plant. The unconsolidated deposits range from 5 feet to greater than 27 feet in thickness.

- The uppermost bedrock beneath the Specialty Metals Plant consists of brown to gray, fine-to-medium grained sandstone with gray shale interbeds. This unit corresponds to the Saltsburg Sandstone unit.

- The uppermost groundwater-bearing unit beneath the Specialty Metals Plant was encountered at depths ranging from 7 to 20 feet below ground surface and was associated with the unconsolidated deposits and the upper weathered bedrock.

- Groundwater flow within the uppermost groundwater-bearing unit tends to mimic surface topography, with flow from west to east across the site. The average hydraulic gradient on November 10, 1994 was approximately 0.02 ft/ft.

- Based on the one-time monitoring event conducted on November 10, 1994, the pond located south of the Specialty Metals Plant appears to act as a recharge point for the local shallow groundwater unit. In addition, the groundwater levels indicate a potential for shallow groundwater discharge to surface water drainage features near the Industrial Waste Treatment Plant. This relationship may be reversed, with surface water drainage into the shallow groundwater unit, further east along the drainage course.

- Slightly elevated (20 percent above background) field radiological readings were reported in two areas north of the railroad tracks: one in a shallow depression or impoundment, the other along a path leading to a natural gas well location.

- Field radiological readings twice background were detected in a field to the west of the north end of the Westro Building, primarily 150 to 200 feet west of the building.

- Field radiological readings 10 to 15 times background were reported in a mound adjacent to the main guard station, north of the visitors parking lot.

- Soil analytical results for pesticides, herbicides, and PCBs were below method detection limits for all soil samples tested.

- Soil samples exceeded the PADER interim criteria for two parameters; trichloroethene in Sample B-1, S-5, adjacent to the former 15,000 gallon above ground trichloroethene/1,1,1-Trichloroethane storage tank, and nickel in Samples B-39, S-5 and B-40, S-5, located in the fill area identified northeast of the Specialty Metals Plant.

- Soil radiological results indicate areas of the site exceed background and require additional delineation.

- Soil radiochemistry results for the surface and near-surface samples collected in the former zircaloy burn area indicate that some soil exceeds the release criteria of 30 pCi/g for uranium in soil. This area will require additional delineation.

- Soil radiochemistry results for the soil boring samples collected in the fill area northeast of the facility indicate radiological results that exceed background. This area will require additional delineation.

- VOCs cis-1,2-dichloroethene, trichloroethene, vinyl chloride, and methylene chloride were detected in sediments at sample locations SD-1, SD-2 and SD-3.

- Surface water Samples SW-1 and SW-2 collected from drainage channels located downstream from the Specialty Metals Plant contained concentrations of trichloroethene (7.5 µg/l and 50 µg/l, respectively). These constituents were not present in previously obtained upstream samples.

- Groundwater sampled from shallow site monitoring wells exceeded the Pennsylvania MCLs for pH, total iron, total manganese and gross alpha for both the upgradient and downgradient monitoring wells, indicating these levels represent background groundwater quality.

- The active groundwater drain (GW-1) near the existing sludge drying beds contained concentrations of trichloroethene at 150 µg/l. Monitoring Well MW-2 located downgradient of the sludge drying beds also contained concentrations of fluoride (2.7 mg/l) and trichloroethene (12 µg/l) above the MCLs.

- Groundwater samples from Well MW-3, located south of the Westro Building, exceeded MCLs for 1,1-dichloroethene (1500 µg/l) and vinyl chloride (220 µg/l).

- Groundwater samples from Well MW-9A, located 75 feet southeast (downgradient) of the Industrial Waste Treatment Plant Building, exceeded MCLs for total chromium (0.052 mg/l), total mercury (0.0027 mg/l), 1,1-dichloroethene (20 µg/l), trichloroethene (22,000 µg/l) and vinyl chloride (49 µg/l).

Respectfully submitted,
Cummings/Riter Consultants, Inc.

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Project Manager

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CUMMINGS RITER

TABLES

TABLE 1

ANALYTICAL PARAMETERS
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA

Soil Sample No.	Parameter List	Depth (Ft) Below G.S.	Comments
B-1, S-2	A	3.0 - 5.0	
B-1, S-5	A	9.0 - 11.0	
B-2, S-2	B	3.0 - 5.0	
B-2, S-4	B	7.0 - 9.0	
B-3, S-3	A	4.0 - 6.0	
B-3, S-5	A	8.0 - 10.0	
B-4, S-3	A	4.0 - 6.0	
B-5, S-4	A	6.0 - 8.0	
B-6, S-2	A	2.0 - 4.0	
B-6, S-4	A	6.0 - 8.0	
B-7, S-2	A	2.0- 4.0	
B-8, S-3	B	4.0 - 6.0	
B-9, S-2	A	2.0 - 4.0	
B-10, S-3	A	4.0 - 6.0	
B-11, S-3	B	4.0 - 6.0	Duplicate sample collected.
B-12, S-3	A	4.0 - 6.0	
B-13, S-2	A	2.0 - 4.0	
B-14, S-2	A	2.0 - 4.0	
B-15, S-2	B	2.0 - 4.0	
B-16, S-1	A	1.0 - 3.0	
B-16, S-3	A	5.0 - 7.0	
B-17, S-2	A	3.0 - 5.0	
B-18, S-1	A	1.0 - 3.0	
B-19, S-1	A	1.0 - 3.0	Duplicate sample collected.
B-19, S-3	A	5.0 - 7.0	
B-20, S-2	A	2.0 - 4.0	
B-21, S-2	A	2.0 - 4.0	
B-22, S-1	A	0.0 - 2.0	
B-22, S-2	A	2.0 - 4.0	
B-23, S-1	A	0.0 - 2.0	

CUMMINGS RITER

TABLE 1
(CONTINUED)

SOIL SAMPLE NO.	PARAMETER LIST	DEPTH (FT) BELOW G.S.	COMMENTS
B-24, S-2	B	2.0 - 4.0	
B-25, S-1	A	0.0 - 2.0	
B-25, S-3	A	4.0 - 6.0	
B-26, S-1	A	0.0 - 2.0	
B-27, S-1	A	0.0 - 2.0	
B-28, S-2	A	2.0 - 4.0	
B-29, S-1	A	0.0 - 2.0	
B-30, S-2	A	2.0 - 4.0	
B-30, S-4	A	6.0 - 8.0	
B-31, S-1	A	0.0 - 2.0	Matrix spike/Matrix spike duplicate collected.
B-32, S-3	A	4.0 - 6.0	
B-33, S-3	B	4.0 - 6.0	
B-34, S-1	A	1.0 - 3.0	
B-35, S-1	B	0.0 - 2.0	
B-36, S-1	A	0.0 - 2.0	
B-37, S-2	B	2.0 - 4.0	
B-38, S-1	A	0.0 - 2.0	Matrix spike/Matrix spike duplicate collected.
B-39, S-4	*	15.0 - 17.0	* Insufficient sample - analyzed for VOCs and radiological parameters. Sample is fill.
B-39, S-5	A	20.0 - 22.0	Sample is fill.
B-39, S-6	*	25.0 - 27.0	* Insufficient sample - analyzed for VOCs and radiological parameters. Soil beneath fill.
B-40, S-4	*	15.0 - 17.0	* Insufficient sample - analyzed for VOCs and radiological parameters. Sample is fill.
B-40, S-5	B	20.0 - 21.8	Soil beneath fill.
B-41, S-2	A	5.0 - 7.0	Sample is fill.
B-41, S-4	A	15.0 - 17.0	Soil beneath fill.
B-42, S-1	A	0.0 - 2.0	Sample is fill.
B-43, S-1	B	0.0 - 2.0	Sample is fill.
B-44, S-2	A	3.5 - 5.5	
B-44, S-4	A	7.5 - 9.5	

CUMMINGS RITER

TABLE 1
(CONTINUED)

SURFACE WATER NO.	PARAMETER LIST	DEPTH (FT) BELOW G.S.	COMMENTS
SW-1	A	NA	
SW-2	A	NA	
SW-3	A	NA	Duplicate/Matrix spike/matrix spike duplicate collected.
SW-7	A	NA	
SEDIMENT NO.	**PARAMETER LIST**	**DEPTH (FT) BELOW G.S.**	**COMMENTS**
SD-1	A	0 - 0.5	
SD-2	A	0 - 0.5	
SD-3	A	0 - 0.5	
SD-7	A	0 - 0.5	
GROUND WATER	**PARAMETER LIST**	**DEPTH (FT) BELOW G.S.**	**COMMENTS**
MW-2	A	NA	
MW-3	A	NA	Matrix spike/matrix spike duplicate collected.
MW-6A	A	NA	
MW-7A	A	NA	
MW-8A	A	NA	
MW-9A	A	NA	Duplicate sample collected.
MW-10A	A	NA	
GW-1	A	NA	

CUMMINGS RITER

TABLE 1
(CONTINUED)

PARAMETER LIST A	METHOD
• TCL VOCs	8240
• TAL metals	6010/7000
• Total petroleum hydrocarbons	8015/7000
• Fluoride	340.2
• Nitrate	353.3/9200
• Ammonia	350.3
• Total organic carbon	9060
• Gross apha	———
• Gross beta	900.0
• Total uranium	ASTM D2907
• Uranium isotopes	EPA 908
• Total radium	705/904
• pH	9045
PARAMETER LIST B	
• TCL VOCs and SVOCs	8240/8270
• TAL metals plus cyanide	6010/7000, 9010
• Pesticides	8080
• Herbicides	8150
• PCBs	8080
• Gross alpha	———
• Gross beta	900.0
• Total uranium	ASTM D2907
• Uranium isotopes	EPA 908
• Total radium	705/904

CUMMINGS RITER

TAI E 2

RADIOLOGICAL DATA
SOIL BORING SAMPLES

Boring ID	Sample No.	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
B-1	S-1	96	0.5	346	87	7.21	1.81	
B-1	S-2	109	0.5	329	81	6.04	1.49	
B-1	S-3	142	0.5	334	75	4.70	1.06	
B-1	S-4	159	0.5	332	78	4.18	0.98	
B-1	S-5	125	0.5	302	67	4.83	1.07	
B-1	S-6	153	0.5	298	68	3.90	0.89	
B-2	S-1	82	0.5	332	69	8.10	1.68	
B-2	S-2	114	0.5	344	83	6.04	1.46	
B-2	S-3	112	0.5	306	69	5.46	1.23	
B-2	S-4	94	0.5	315	74	6.70	1.57	
B-2	S-5	127	0.5	330	90	5.20	1.42	
B-2	S-6	146	0.5	317	86	4.34	1.18	
B-3	S-1	81	0.5	330	61	8.15	1.51	
B-3	S-2	82	0.5	288	68	7.02	1.66	
B-3	S-3	118	0.5	357	77	6.05	1.31	
B-3	S-4	106	0.5	306	59	5.77	1.11	
B-3	S-5	132	0.5	303	76	4.59	1.15	
B-3	S-6	168	0.5	303	74	3.61	0.88	
B-3	S-7	153	0.5	303	75	3.96	0.98	
B-3	S-8	142	0.5	294	56	4.14	0.79	
B-3	S-9	149	0.5	271	64	3.64	0.86	
B-4	S-1	84	0.5	313	80	7.45	1.90	
B-4	S-2	75	0.5	328	82	8.75	2.19	
B-4	S-3	94	0.5	317	72	6.74	1.53	
B-4	S-4	109	0.5	288	68	5.28	1.25	
B-4	S-5	129	0.5	289	77	4.48	1.19	
B-5	S-1	100	0.5	289	63	5.78	1.26	
B-5	S-2	83	0.5	322	76	7.76	1.83	
B-5	S-3	82	0.5	328	67	8.00	1.63	
B-5	S-4	78	0.5	299	67	7.67	1.72	
B-5	S-5	143	0.5	298	72	4.17	1.01	

TAI E 2

RADIOLOGICAL DATA
SOIL BORING SAMPLES

Boring ID	Sample No.	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
B-6	S-1	92	0.5	267	69	5.80	1.50	
B-6	S-2	118	0.5	336	78	5.69	1.32	
B-6	S-3	105	0.5	303	65	5.77	1.24	
B-6	S-4	118	0.5	300	85	5.08	1.44	
B-6	S-5	158	0.5	284	64	3.59	0.81	
B-6	S-6	140	0.5	304	74	4.34	1.06	
B-6	S-7	126	0.5	316	69	5.02	1.10	
B-7	S-1	59	0.5	292	65	9.90	2.20	
B-7	S-2	109	0.5	335	70	6.15	1.28	
B-7	S-3	127	0.5	287	74	4.52	1.17	
B-7	S-4	149	0.5	335	83	4.50	1.11	
B-7	S-5	139	0.5	301	71	4.33	1.02	
B-7	S-6	98	0.5	291	70	5.94	1.43	
B-8	S-1	75	0.5	292	64	7.79	1.71	
B-8	S-2	85	0.5	304	67	7.15	1.58	
B-8	S-3	94	0.5	326	70	6.94	1.49	
B-8	S-4	87	0.5	272	68	6.25	1.56	
B-8	S-5	101	0.5	287	69	5.68	1.37	
B-8	S-6	117	0.5	269	60	4.60	1.03	
B-8	S-6	116	0.5	325	78	5.60	1.34	
B-8	S-7	112	0.5	293	61	5.23	1.09	
B-8	S-8	143	0.5	325	79	4.55	1.10	
B-9	S-1	139	0.5	325	68	4.68	0.98	
B-9	S-2	96	0.5	298	73	6.21	1.52	
B-9	S-3	85	0.5	324	79	7.62	1.86	
B-9	S-4	132	0.5	325	89	4.92	1.35	
B-9	S-5	129	0.5	292	76	4.53	1.18	
B-9	S-6	127	0.5	301	68	4.74	1.07	
B-9	S-7	169	0.5	318	74	3.76	0.88	
B-9	S-8	129	0.5	304	65	4.71	1.01	

TABLE 2
RADIOLOGICAL DATA
SOIL BORING SAMPLES

Boring ID	Sample No.	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
B-10	S-1	90	0.5	293	77	6.51	1.71	
B-10	S-2	108	0.5	315	84	5.83	1.56	
B-10	S-3	116	0.5	294	77	5.07	1.33	
B-10	S-4	80	0.5	308	77	7.70	1.93	
B-10	S-5	92	0.5	345	82	7.50	1.78	
B-10	S-6	116	0.5	281	57	4.84	0.98	
B-10	S-7	126	0.5	277	68	4.40	1.08	
B-11	S-1	94	0.5	287	67	6.11	1.43	
B-11	S-2	111	0.5	272	72	4.90	1.30	
B-11	S-3	116	0.5	281	65	4.84	1.12	
B-11	S-4	88	0.5	294	57	6.68	1.30	
B-11	S-5	143	0.5	304	70	4.25	0.98	
B-11	S-6	114	0.5	313	69	5.49	1.21	
B-11	S-7	137	0.5	338	79	4.93	1.15	
B-11	S-8	150	0.5	305	65	4.07	0.87	
B-12	S-1	104	0.5	292	70	5.62	1.35	
B-12	S-2	121	0.5	296	60	4.89	0.99	
B-12	S-3	102	0.5	296	81	5.80	1.59	
B-12	S-4	113	0.5	307	66	5.43	1.17	
B-12	S-5	151	0.5	309	86	4.09	1.14	
B-12	S-6	144	0.5	305	67	4.24	0.93	
B-12	S-7	164	0.5	300	74	3.66	0.90	
B-13	S-1	80	--	--	--	--	--	B029
B-13	S-2	128	0.5	329	77	5.14	1.20	
B-13	S-3	99	0.5	288	71	5.82	1.43	
B-13	S-4	108	0.5	325	88	6.02	1.63	
B-13	S-5	133	0.5	315	64	4.74	0.96	

TAB 2
RADIOLOGICAL DATA
SOIL BORING SAMPLES

Boring ID	Sample No.	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
B-14	S-1	78	--	--	--	--	--	B030
B-14	S-2	108	0.5	316	82	5.85	1.52	
B-14	S-3	140	0.5	295	70	4.21	1.00	
B-14	S-4	140	0.5	317	69	4.53	0.99	
B-14	S-5	128	0.5	317	80	4.95	1.25	
B-15	S-1	103	--	--	--	--	--	B031
B-15	S-2	102	--	--	--	--	--	B032
B-15	S-3	108	0.5	301	72	5.57	1.33	
B-15	S-4	151	0.5	348	86	4.61	1.14	
B-16	S-1	163	0.5	287	71	3.52	0.87	
B-16	S-2	116	0.5	291	77	5.02	1.33	
B-16	S-3	85	0.5	310	85	7.29	2.00	B033
B-16	S-4	139	0.5	297	72	4.27	1.04	
B-16	S-5	108	0.5	276	63	5.11	1.17	
B-17	S-1	154	0.5	308	84	4.00	1.09	
B-17	S-2	103	--	--	--	--	--	B034
B-17	S-3	116	0.5	305	71	5.26	1.22	
B-17	S-4	137	0.5	310	83	4.53	1.21	
B-17	S-5	144	0.5	307	73	4.26	1.01	
B-18	S-1	112	0.5	315	82	5.63	1.46	
B-18	S-2	70	--	--	--	--	--	B035
B-18	S-3	169	--	--	--	--	--	
B-18	S-4	120	0.5	311	70	5.18	1.17	
B-19	S-1	128	0.5	334	81	5.22	1.27	
B-19	S-2	91	--	--	--	--	--	B036
B-19	S-3	133	0.5	320	83	4.81	1.25	
B-19	S-4	127	0.5	331	105	5.21	1.65	
B-19	S-5	114	0.5	295	82	5.18	1.44	

TABLE 2
RADIOLOGICAL DATA
SOIL BORING SAMPLES

Boring ID	Sample No.	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
B-20	S-1	132	0.5	316	76	4.79	1.15	
B-20	S-2	114	--	--	--	--	--	B037
B-20	S-3	137	0.5	305	62	4.45	0.91	
B-20	S-4	137	0.5	319	78	4.66	1.14	
B-21	S-1	119	--	--	--	--	--	B038
B-21	S-2	129	0.5	288	79	4.47	1.22	
B-21	S-3	128	0.5	313	77	4.89	1.20	
B-21	S-4	162	0.5	327	85	4.04	1.05	
B-22	S-1	135	--	--	--	--	--	B039
B-22	S-2	110	0.5	271	69	4.93	1.25	
B-22	S-3	110	0.5	319	77	5.80	1.40	
B-22	S-4	156	0.5	305	95	3.91	1.22	
B-23	S-1	151	--	--	--	--	--	B040
B-23	S-2	124	0.5	341	82	5.50	1.32	
B-23	S-3	120	0.5	297	68	4.95	1.13	
B-24	S-1	135	0.5	309	72	4.58	1.07	
B-24	S-2	109	0.5	293	63	5.38	1.16	
B-24	S-3	136	0.5	329	67	4.84	0.99	
B-24	S-4	151	0.5	301	71	3.99	0.94	
B-25	S-1	115	--	--	--	--	--	B041
B-25	S-2	125	0.5	318	54	5.09	0.86	
B-25	S-3	128	0.5	280	61	4.38	0.95	
B-25	S-4	115	0.5	294	66	5.11	1.15	
B-26	S-1	102	--	--	--	--	--	B042
B-26	S-2	108	0.5	290	73	5.37	1.35	
B-26	S-3	110	0.5	287	64	5.22	1.16	
B-26	S-4	131	0.5	333	84	5.08	1.28	
B-27	S-1	139	0.5	327	73	4.71	1.05	
B-27	S-2	102	--	--	--	--	--	B043
B-27	S-3	133	0.5	308	74	4.63	1.11	
B-27	S-4	116	0.5	301	71	5.19	1.22	

TA E2
RADIOLOGICAL DATA
SOIL BORING SAMPLES

Boring ID	Sample No.	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts GR-256 Total Spectrum	Raw Counts GR-256 Uranium Peak	Normalized CPM per Gram GR-256 Total Spectrum	Normalized CPM per Gram GR-256 Uranium Peak	Sample ID No.
B-28	S-1	103	0.5	371	99	7.20	1.92	
B-28	S-2	142	0.5	339	69	4.77	0.97	
B-28	S-3	104	0.5	302	57	5.81	1.10	
B-28	S-4	108	0.5	300	83	5.56	1.54	
B-29	S-1	106	0.5	306	77	5.77	1.45	
B-29	S-2	115	0.5	309	59	5.37	1.03	
B-29	S-3	73	0.5	304	85	8.33	2.33	
B-29	S-4	111	0.5	291	69	5.24	1.24	
B-29	S-5	129	0.5	280	62	4.34	0.96	
B-30	S-1	100	--	--	--	--	--	B044
B-30	S-2	122	0.5	315	83	5.16	1.36	
B-30	S-3	108	0.5	282	78	5.22	1.44	
B-30	S-4	133	0.5	297	65	4.47	0.98	
B-30	S-5	134	0.5	352	69	5.25	1.03	
B-31	S-1	115	0.5	327	77	5.69	1.34	
B-31	S-2	73	0.5	301	52	8.25	1.42	
B-31	S-3	122	0.5	278	55	4.56	0.90	
B-31	S-4	117	0.5	300	66	5.13	1.13	
B-31	S-5	85	0.5	304	69	7.15	1.62	
B-32	S-1	116	0.5	318	76	5.48	1.31	
B-32	S-2	164	0.5	285	79	3.48	0.96	
B-32	S-3	124	0.5	308	77	4.97	1.24	
B-33	S-1	169	0.5	329	89	3.89	1.05	
B-33	S-2	116	0.5	281	69	4.84	1.19	
B-33	S-3	129	0.5	332	78	5.15	1.21	
B-33	S-4	126	0.5	294	74	4.67	1.17	
B-34	S-1	124	--	--	--	--	--	B045
B-34	S-2	103	0.5	304	62	5.90	1.20	
B-34	S-3	133	0.5	315	68	4.74	1.02	

TA E2
RADIOLOGICAL DATA
SOIL BORING SAMPLES

Boring ID	Sample No.	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts GR-256 Total Spectrum	Raw Counts GR-256 Uranium Peak	Normalized CPM per Gram GR-256 Total Spectrum	Normalized CPM per Gram GR-256 Uranium Peak	Sample ID No.
B-35	S-1	145	0.5	312	82	4.30	1.13	
B-35	S-2	94	0.5	327	83	6.96	1.77	
B-35	S-3	83	0.5	309	71	7.45	1.71	
B-36	S-1	147	0.5	306	66	4.16	0.90	
B-36	S-2	78	0.5	303	75	7.77	1.92	
B-36	S-3	124	0.5	309	72	4.98	1.16	
B-37	S-1	91	0.5	279	66	6.13	1.45	
B-37	S-2	88	0.5	298	83	6.77	1.89	
B-37	S-3	177	0.5	268	59	3.03	0.67	
B-38	S-1	124	0.5	281	61	4.53	0.98	
B-38	S-2	117	0.5	314	79	5.37	1.35	
B-38	S-3	114	0.5	302	80	5.30	1.40	
B-39	S-1	105	0.5	263	58	5.01	1.10	
B-39	S-2	85	0.5	343	87	8.07	2.05	
B-39	S-3	76	0.5	315	78	8.29	2.05	
B-39	S-4	110	0.5	358	96	6.51	1.75	
B-39	S-5	106	--	--	--	--	--	B046
B-40	S-1	162	0.5	300	74	3.70	0.91	
B-40	S-2	135	0.5	323	77	4.79	1.14	
B-40	S-3	127	0.5	340	74	5.35	1.17	
B-40	S-4	85	--	--	--	--	--	B047
B-41	S-1	144	0.5	295	75	4.10	1.04	
B-41	S-2	99	0.5	364	101	7.35	2.04	
B-41	S-3	137	0.5	327	90	4.77	1.31	
B-41	S-4	88	0.5	295	83	6.70	1.89	
B-42	S-1	147	0.5	321	75	4.37	1.02	
B-42	S-2	121	0.5	302	59	4.99	0.98	
B-42	S-3	167	0.5	305	76	3.65	0.91	
B-42	S-4	164	0.5	344	77	4.20	0.94	

TA E 2
RADIOLOGICAL DATA
SOIL BORING SAMPLES

Boring ID	Sample No.	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts GR-256 Total Spectrum	Raw Counts GR-256 Uranium Peak	Normalized CPM per Gram GR-256 Total Spectrum	Normalized CPM per Gram GR-256 Uranium Peak	Sample ID No.
B-43	S-1	157	0.5	336	80	4.28	1.02	B048
B-43	S-3	103	0.5	305	72	5.92	1.40	
B-43	S-5	144	0.5	300	69	4.17	0.96	
B-44	S-1	150	0.5	316	67	4.21	0.89	
B-44	S-2	102	0.5	332	75	6.51	1.47	
B-44	S-3	112	0.5	329	79	5.88	1.41	
B-44	S-4	136	0.5	285	80	4.19	1.18	
MW-5A	S-1	91	--	--	--	--	--	B060
MW-5A	S-2	172	0.5	299	66	3.48	0.77	
MW-5A	S-3	116	0.5	296	73	5.10	1.26	
MW-5A	S-4	121	--	--	--	--	--	B061
MW-6A	S-1	125	--	--	--	--	--	B062
MW-6A	S-2	158	0.5	330	68	4.18	0.86	
MW-6A	S-3	144	0.5	300	75	4.17	1.04	
MW-7A	S-1	113	0.5	295	74	5.22	1.31	
MW-7A	S-3	128	0.5	323	82	5.05	1.28	
MW-7A	S-4	152	0.5	315	81	4.14	1.07	
MW-8A	S-1	142	0.5	323	64	4.55	0.90	
MW-8A	S-2	127	--	--	--	--	--	B063
MW-8A	S-3	137	0.5	338	82	4.93	1.20	
MW-8A	S-4	155	0.5	317	76	4.09	0.98	
MW-9A	S-1	112	--	--	--	--	--	B064
MW-9A	S-2	98	0.5	311	73	6.35	1.49	
MW-9A	S-3	143	0.5	315	66	4.41	0.92	
MW-10A	S-1	152	--	--	--	--	--	B059
MW-10A	S-2	140	0.5	345	88	4.93	1.26	
MW-10A	S-3	143	0.5	329	93	4.60	1.30	
MW-10A	S-4	177	0.5	315	59	3.56	0.67	
MW-10A	S-6	162	0.5	289	67	3.57	0.83	

TA E3
RADIOLOGICAL DATA
FORMER ZIRCALOY BURN AREA
SURFACE/SHALLOW SUBSURFACE SOIL SAMPLES

Sample Grid ID	Sample Depth (in. BGS)	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
B-1	0-6	267	--	--	--	--	--	B065
B-1	6-12	239	0.5	322	69	2.69	0.58	
B-2	0-6	241	--	--	--	--	--	B066
B-2	6-12	192	0.5	335	92	3.49	0.96	
B-3	0-6	211	--	--	--	--	--	B067
B-3	6-12	225	0.5	333	74	2.96	0.66	
B-4	0-6	165	0.5	322	70	3.90	0.85	
B-4	6-12	185	0.5	302	75	3.26	0.81	
B-5	0-6	192	0.5	308	57	3.21	0.59	
B-5	6-12	174	0.5	328	78	3.77	0.90	
B-6	0-6	235	0.5	311	78	2.65	0.66	
B-6	6-12	199	0.5	312	84	3.14	0.84	
B-7	0-6	227	0.5	321	89	2.83	0.78	
B-7	6-12	225	0.5	357	71	3.17	0.63	
B-8	0-6	209	0.5	332	83	3.18	0.79	
B-8	6-12	248	0.5	338	74	2.73	0.60	
B-9	0-6	231	0.5	346	89	3.00	0.77	
B-9	6-12	237	0.5	319	81	2.69	0.68	
C-1	0-6	228	0.5	348	83	3.05	0.73	
C-1	6-12	270	0.5	354	78	2.62	0.58	
C-2	0-6	227	0.5	310	82	2.73	0.72	
C-2	6-12	211	0.5	307	74	2.91	0.70	
C-3	0-6	208	0.5	337	77	3.24	0.74	
C-3	6-12	281	0.5	297	77	2.11	0.55	
C-4	0-6	165	0.5	325	73	3.94	0.88	
C-4	6-12	226	0.5	350	79	3.10	0.70	
C-5	0-6	214	0.5	337	84	3.15	0.79	
C-5	6-12	165	0.5	327	89	3.96	1.08	
C-6	0-6	99	0.5	292	59	5.90	1.19	
C-6	6-12	241	0.5	361	81	3.00	0.67	
C-7	0-6	190	0.5	332	73	3.49	0.77	
C-7	6-12	231	0.5	331	81	2.87	0.70	
C-8	0-6	215	0.5	314	84	2.92	0.78	
C-8	6-12	210	0.5	320	76	3.05	0.72	
C-9	0-6	198	0.5	322	83	3.25	0.84	
C-9	6-12	192	0.5	330	80	3.44	0.83	

TABLE 3
RADIOLOGICAL DATA
FORMER ZIRCALOY BURN AREA
SURFACE/SHALLOW SUBSURFACE SOIL SAMPLES

Sample Grid ID	Sample Depth (in. BGS)	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
D-1	0-6	112	0.5	312	76	5.57	1.36	
D-1	6-12	218	0.5	327	75	3.00	0.69	
D-2	0-6	185	0.5	321	77	3.47	0.83	
D-2	6-12	213	0.5	332	83	3.12	0.78	
D-3	0-6	203	--	--	--	--	--	B068
D-3	6-12	201	0.5	288	77	2.87	0.77	
D-4	0-6	181	0.5	319	62	3.52	0.69	
D-4	6-12	234	0.5	349	81	2.98	0.69	
D-5	0-6	214	0.5	368	77	3.44	0.72	
D-5	6-12	236	0.5	368	100	3.12	0.85	
D-6	0-6	167	0.5	328	76	3.93	0.91	
D-6	6-12	244	0.5	325	68	2.66	0.56	
D-7	0-6	180	0.5	336	75	3.73	0.83	
D-7	6-12	205	0.5	320	67	3.12	0.65	
D-8	0-6	132	--	--	--	--	--	B069
D-8	6-12	228	0.5	355	91	3.11	0.80	
D-9	0-6	173	0.5	329	96	3.80	1.11	
D-9	6-12	273	0.5	313	82	2.29	0.60	
E-1	0-6	141	--	--	--	--	--	B070
E-1	6-12	200	0.5	318	69	3.18	0.69	
E-2	0-6	120	--	--	--	--	--	B071
E-2	6-12	180	0.5	309	70	3.43	0.78	
E-3	0-6	163	--	--	--	--	--	B072
E-3	6-12	212	0.5	324	68	3.06	0.64	
E-4	0-6	171	0.5	322	79	3.77	0.92	
E-4	6-12	247	0.5	328	79	2.66	0.64	
E-5	0-6	170	--	--	--	--	--	B073
E-5	6-12	212	--	--	--	--	--	B074
E-6	0-6	206	0.5	354	92	3.44	0.89	
E-6	6-12	255	0.5	311	72	2.44	0.56	
E-7	0-6	205	0.5	339	93	3.31	0.91	
E-7	6-12	244	0.5	387	117	3.17	0.96	
E-8	0-6	210	0.5	311	86	2.96	0.82	
E-8	6-12	221	0.5	495	206	4.48	1.86	
E-9	0-6	201	0.5	349	117	3.47	1.16	
E-9	6-12	239	0.5	360	112	3.01	0.94	

TA E3
RADIOLOGICAL DATA
FORMER ZIRCALOY BURN AREA
SURFACE/SHALLOW SUBSURFACE SOIL SAMPLES

Sample Grid ID	Sample Depth (in. BGS)	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
F-1	0-6	151	--	--	--	--	--	B075
F-1	6-12	175	0.5	286	65	3.27	0.74	
F-2	0-6	193	0.5	313	77	3.24	0.80	
F-2	6-12	254	0.5	366	84	2.88	0.66	
F-3	0-6	97	0.5	296	76	6.10	1.57	
F-3	6-12	97	--	--	--	--	--	B076
F-4	0-6	219	0.5	326	71	2.98	0.65	
F-4	6-12	231	0.5	325	84	2.81	0.73	
F-5	0-6	180	0.5	327	89	3.63	0.99	
F-5	6-12	244	0.5	362	99	2.97	0.81	
F-6	0-6	237	0.5	368	99	3.11	0.84	
F-6	6-12	190	0.5	353	91	3.72	0.96	
F-7	0-6	210	0.5	364	90	3.47	0.86	
F-7	6-12	246	0.5	362	95	2.94	0.77	
F-8	0-6	138	--	--	--	--	--	B077
F-8	6-12	231	0.5	366	106	3.17	0.92	
F-9	0-6	166	0.5	369	99	4.45	1.19	
F-9	6-12	192	0.5	361	100	3.76	1.04	
G-1	0-6	111	--	--	--	--	--	B078
G-1	6-12	119	0.5	294	79	4.94	1.33	
G-2	0-6	269	0.5	355	71	2.64	0.53	
G-2	6-12	265	0.5	331	73	2.50	0.55	
G-3	0-6	150	0.5	317	81	4.23	1.08	
G-3	6-12	198	0.5	340	83	3.43	0.84	
G-4	0-6	191	0.5	316	80	3.31	0.84	
G-4	6-12	265	0.5	331	81	2.50	0.61	
G-5	0-6	201	0.5	339	77	3.37	0.77	
G-5	6-12	194	0.5	314	58	3.24	0.60	
G-6	0-6	98	0.5	334	83	6.82	1.69	
G-6	6-12	142	0.5	282	73	3.97	1.03	
G-7	0-6	232	0.5	322	91	2.78	0.78	
G-7	6-12	235	0.5	329	91	2.80	0.77	
G-8	0-6	253	0.5	6059	4798	47.90	37.93	
G-8	6-12	281	0.5	443	161	3.15	1.15	
G-9	0-6	202	0.5	401	123	3.97	1.22	
G-9	6-12	192	0.5	351	123	3.66	1.28	

TA E 3
RADIOLOGICAL DATA
FORMER ZIRCALOY BURN AREA
SURFACE/SHALLOW SUBSURFACE SOIL SAMPLES

Sample Grid ID	Sample Depth (in. BGS)	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
H-1	0-6	195	0.5	310	81	3.18	0.83	
H-1	6-12	246	0.5	313	81	2.54	0.66	
H-2	0-6	238	0.5	351	92	2.95	0.77	
H-2	6-12	274	0.5	328	81	2.39	0.59	
H-3	0-6	190	0.5	332	74	3.49	0.78	
H-3	6-12	257	0.5	342	75	2.66	0.58	
H-4	0-6	208	0.5	322	81	3.10	0.78	
H-4	6-12	272	0.5	352	70	2.59	0.51	
H-5	0-6	198	0.5	345	92	3.48	0.93	
H-5	6-12	178	0.5	301	85	3.38	0.96	
H-6	0-6	276	0.5	345	86	2.50	0.64	
H-6	6-12	254	0.5	319	76	2.51	0.60	
H-7	0-6	154	--	--	--	--	--	B079
H-7	6-12	237	0.5	311	94	2.62	0.79	
H-8	0-6	187	0.5	357	88	3.82	0.94	
H-8	6-12	256	0.5	340	109	2.66	0.85	
H-9	0-6	247	0.5	357	88	2.89	0.71	
H-9	6-12	184	0.5	288	80	3.13	0.87	
I-1	0-6	236	0.5	343	84	2.91	0.71	
I-1	6-12	288	0.5	319	84	2.22	0.58	
I-2	0-6	187	0.5	345	77	3.69	0.82	
I-2	6-12	242	0.5	299	73	2.47	0.60	
I-3	0-6	180	0.5	313	68	3.48	0.76	
I-3	6-12	189	0.5	328	80	3.47	0.85	
I-4	0-6	254	0.5	330	77	2.60	0.61	
I-4	6-12	287	0.5	318	77	2.22	0.54	
I-5	0-6	228	0.5	375	110	3.29	0.96	
I-5	6-12	283	0.5	345	93	2.44	0.66	
I-6	0-6	198	0.5	317	78	3.20	0.79	
I-6	6-12	240	0.5	319	79	2.66	0.66	
I-7	0-6	193	0.5	290	74	3.01	0.77	
I-7	6-12	243	0.5	334	105	2.75	0.86	
I-8	0-6	216	0.5	356	86	3.30	0.80	
I-8	6-12	247	0.5	313	77	2.53	0.62	
I-9	0-6	274	0.5	360	112	2.63	0.82	
I-9	6-12	236	0.5	304	81	2.58	0.69	

TABLE 3
RADIOLOGICAL DATA
FORMER ZIRCALOY BURN AREA
SURFACE/SHALLOW SUBSURFACE SOIL SAMPLES

Sample Grid ID	Sample Depth (in. BGS)	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
J-1	0-6	227	0.5	356	85	3.14	0.75	
J-1	6-12	258	0.5	363	82	2.81	0.64	
J-2	0-6	229	0.5	369	98	3.22	0.86	
J-2	6-12	265	0.5	321	89	2.42	0.67	
J-3	0-6	175	0.5	305	66	3.49	0.75	
J-3	6-12	255	0.5	356	91	2.79	0.71	
J-4	0-6	235	0.5	313	79	2.66	0.67	
J-4	6-12	262	0.5	332	80	2.53	0.61	
J-5	0-6	158	0.5	305	93	3.86	1.18	
J-5	6-12	167	0.5	311	79	3.72	0.95	
J-6	0-6	238	0.5	363	95	3.05	0.80	
J-6	6-12	253	0.5	344	92	2.72	0.73	
J-7	0-6	226	0.5	342	80	3.03	0.71	
J-7	6-12	195	0.5	337	96	3.46	0.98	
J-8	0-6	375	0.5	389	111	2.07	0.59	
J-8	6-12	245	0.5	374	73	3.05	0.60	
J-9	0-6	194	0.5	340	95	3.51	0.98	
J-9	6-12	228	0.5	420	148	3.68	1.30	
K-1	0-6	235	0.5	322	85	2.74	0.72	
K-1	6-12	284	0.5	331	80	2.33	0.56	
K-2	0-6	200	0.5	333	80	3.33	0.80	
K-2	6-12	326	0.5	334	82	2.05	0.50	
K-3	0-6	284	0.5	328	82	2.31	0.58	
K-3	6-12	295	0.5	304	68	2.06	0.46	
K-4	0-6	251	0.5	356	88	2.84	0.70	
K-4	6-12	325	0.5	356	84	2.19	0.52	
K-5	0-6	209	0.5	328	79	3.14	0.76	
K-5	6-12	220	0.5	321	85	2.92	0.77	
K-6	0-6	226	0.5	312	71	2.76	0.63	
K-6	6-12	297	0.5	344	80	2.32	0.54	
K-7	0-6	163	0.5	323	85	3.96	1.04	
K-7	6-12	135	0.5	287	66	4.25	0.98	
K-8	0-6	278	0.5	378	81	2.72	0.58	
K-8	6-12	255	0.5	345	83	2.71	0.65	
K-9	0-6	165	0.5	345	94	4.18	1.14	
K-9	6-12	233	0.5	302	79	2.59	0.68	

TA E 3

RADIOLOGICAL DATA
FORMER ZIRCALOY BURN AREA
SURFACE/SHALLOW SUBSURFACE SOIL SAMPLES

Sample Grid ID	Sample Depth (in. BGS)	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
L-1	0-6	205	0.5	313	74	3.05	0.72	
L-1	6-12	262	0.5	348	103	2.66	0.79	
L-2	0-6	241	0.5	304	78	2.52	0.65	
L-2	6-12	250	0.5	309	76	2.47	0.61	
L-3	0-6	269	0.5	334	88	2.48	0.65	
L-3	6-12	328	0.5	372	88	2.27	0.54	
L-4	0-6	199	0.5	339	74	3.41	0.74	
L-4	6-12	289	0.5	366	85	2.53	0.59	
L-5	0-6	231	0.5	316	75	2.74	0.65	
L-5	6-12	236	0.5	324	80	2.75	0.68	
L-6	0-6	156	0.5	285	60	3.65	0.77	
L-6	6-12	221	0.5	340	75	3.08	0.68	
L-7	0-6	147	0.5	342	102	4.65	1.39	
L-7	6-12	270	0.5	387	94	2.87	0.70	
L-8	0-6	180	0.5	353	97	3.92	1.08	
L-8	6-12	186	0.5	317	81	3.41	0.87	
L-9	0-6	197	0.5	287	70	2.91	0.71	
L-9	6-12	168	0.5	321	74	3.82	0.88	
M-1	0-6	221	0.5	376	82	3.40	0.74	
M-1	6-12	226	0.5	329	78	2.91	0.69	
M-2	0-6	241	0.5	329	87	2.73	0.72	
M-2	6-12	277	0.5	324	83	2.34	0.60	
M-3	0-6	263	0.5	337	87	2.56	0.66	
M-3	6-12	268	0.5	343	79	2.56	0.59	
M-4	0-6	194	0.5	337	84	3.47	0.87	
M-4	6-12	245	0.5	297	77	2.42	0.63	
M-5	0-6	159	0.5	270	82	3.40	1.03	
M-5	6-12	183	0.5	328	83	3.58	0.91	
M-6	0-6	246	0.5	362	87	2.94	0.71	
M-6	6-12	309	0.5	359	108	2.32	0.70	
M-7	0-6	236	0.5	340	77	2.88	0.65	
M-7	6-12	226	0.5	329	84	2.91	0.74	
M-8	0-6	151	0.5	319	78	4.23	1.03	
M-8	6-12	140	0.5	341	89	4.87	1.27	
M-9	0-6	132	0.5	325	85	4.92	1.29	
M-9	6-12	176	0.5	289	60	3.28	0.68	

TA''E 3

RADIOLOGICAL DATA

FORMER ZIRCALOY BURN AREA

SURFACE/SHALLOW SUBSURFACE SOIL SAMPLES

Sample Grid ID	Sample Depth (in. BGS)	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
N-1	0-6	95	0.5	322	81	6.78	1.71	
N-1	6-12	140	0.5	304	70	4.34	1.00	
N-2	0-6	115	0.5	310	76	5.39	1.32	
N-2	6-12	182	0.5	318	79	3.49	0.87	
N-3	0-6	129	0.5	297	64	4.60	0.99	
N-3	6-12	191	0.5	351	81	3.68	0.85	
N-4	0-6	100	0.5	294	53	5.88	1.06	
N-4	6-12	154	0.5	306	75	3.97	0.97	
N-5	0-6	87	0.5	278	71	6.39	1.63	
N-5	6-12	119	0.5	297	71	4.99	1.19	
N-6	0-6	95	0.5	299	61	6.29	1.28	
N-6	6-12	167	0.5	306	82	3.66	0.98	
N-7	0-6	106	0.5	311	70	5.87	1.32	
N-7	6-12	148	0.5	282	75	3.81	1.01	
N-8	0-6	158	0.5	348	91	4.41	1.15	
N-8	6-12	129	0.5	330	80	5.12	1.24	
N-9	0-6	187	0.5	319	76	3.41	0.81	
N-9	6-12	168	0.5	357	82	4.25	0.98	

TABLE 4
RADIOLOGICAL DATA
"SAND MOUND" SURFACE SOIL SAMPLES

Sample Grid ID	Sample Depth (in. BGS)	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
Y-1	0-6	190	--	--	--	--	--	B080
Y-1	6-12	116	--	--	--	--	--	B081
Y-2	0-6	159	0.5	364	87	4.58	1.09	
Y-2	6-12	106	0.5	300	65	5.66	1.23	
Y-3	0-6	131	0.5	371	96	5.66	1.47	
Y-3	6-12	134	0.5	297	72	4.43	1.07	
Y-4	0-6	154	0.5	293	71	3.81	0.92	
Y-4	6-12	90	0.5	304	79	6.76	1.76	
Y-5	0-6	142	0.5	312	66	4.39	0.93	
Y-5	6-12	117	0.5	348	97	5.95	1.66	
Y-6	0-6	159	0.5	306	69	3.85	0.87	
Y-6	6-12	156	0.5	306	80	3.92	1.03	
Y-7	0-6	141	0.5	327	76	4.64	1.08	
Y-7	6-12	95	0.5	298	71	6.27	1.49	
Y-8	0-6	145	0.5	364	89	5.02	1.23	
Y-8	6-12	149	0.5	310	82	4.16	1.10	
Y-9	0-6	95	0.5	311	65	6.55	1.37	
Y-9	6-12	129	0.5	302	75	4.68	1.16	
Y-10	0-6	65	0.5	308	68	9.48	2.09	
Y-10	6-12	116	0.5	317	72	5.47	1.24	
Y-11	0-6	139	0.5	277	69	3.99	0.99	
Y-11	6-12	108	0.5	320	54	5.93	1.00	
Z-1	0-6	103	0.5	430	100	8.35	1.94	
Z-1	6-12	95	0.5	317	83	6.67	1.75	
Z-2	0-6	111	0.5	393	91	7.08	1.64	
Z-2	6-12	101	0.5	299	76	5.92	1.50	
Z-3	0-6	144	--	--	--	--	--	B082
Z-3	6-12	99	0.5	356	78	7.19	1.58	
Z-4	0-6	165	0.5	360	96	4.36	1.16	
Z-4	6-12	106	0.5	332	75	6.26	1.42	

TA E 4
RADIOLOGICAL DATA
"SAND MOUND" SURFACE SOIL SAMPLES

Sample Grid ID	Sample Depth (in. BGS)	Weight (grams)	GR-256 Count Duration (Min.)	Raw Counts		Normalized CPM per Gram		Sample ID No.
				GR-256 Total Spectrum	GR-256 Uranium Peak	GR-256 Total Spectrum	GR-256 Uranium Peak	
Z-5	0-6	192	--	--	--	--	--	B083
Z-5	6-12	157	0.5	321	62	4.09	0.79	
Z-6	0-6	134	0.5	343	89	5.12	1.33	
Z-6	6-12	132	0.5	326	75	4.94	1.14	
Z-7	0-6	105	0.5	283	71	5.39	1.35	
Z-7	6-12	160	0.5	327	78	4.09	0.98	
Z-8	0-6	103	0.5	325	64	6.31	1.24	
Z-8	6-12	100	0.5	472	126	9.44	2.52	
Z-9	0-6	115	0.5	296	77	5.15	1.34	
Z-9	6-12	120	0.5	327	71	5.45	1.18	
Z-10	0-6	161	0.5	313	82	3.89	1.02	
Z-10	6-12	146	0.5	317	78	4.34	1.07	
Z-11	0-6	134	0.5	307	75	4.58	1.12	
Z-11	6-12	132	0.5	333	79	5.05	1.20	

TABLE 5

GROUNDWATER/SURFACE WATER ELEVATIONS
WESTINGHOUSE ELECTRIC CORPORATION
BLAIRSVILLE, PENNSYLVANIA

Monitoring Point	Reference Elevation	Groundwater Level Depth (ft.)/Elev. (ft. msl.) November 10, 1994
MW-2	988.42	7.27/981.15
MW-3	1003.08	8.84/994.24
MW-6A	1006.58	11.75/994.83
MW-7A	994.40	10.22/984.18
MW-8A	1003.89	13.51/990.38
MW-9A	980.82	19.24/961.58
MW-10A	1017.03	19.32/997.71
Pond	1000.49	2.90/997.59

CUMMINGS RITER

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/17/94		10/17/94		10/17/94		10/17/94		10/17/94		10/17/94		10/18/94		10/18/94	
Sample ID:			B-1, S-2		B-1, S-5		B-2, S-2		B-2, S-4		B-3, S-3		B-3, S-5		B-4, S-3		B-5, S-4	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:																		
Cyanide (ASTM)	mg/l	1000 mg/kg	NA		NA		0.005	U	0.005	U	NA		NA		NA		NA	
Fluoride	mg/kg		110		89		NA		NA		160		110		130		120	
Ammonia (ASTM)	mg/l NH_3-N		3.1		0.1	U	NA		NA		0.1	U	0.1	U	0.1	U	0.1	U
Nitrate (ASTM)	mg/l NO_3-N		0.1	U	0.1	U	NA		NA		0.1	U	0.1	U	0.1	U	0.1	U
pH	pH units		6.22		6.16		NA		NA		5.19		5.5		4.97		4.63	
Total Petroleum Hydrocarbons	mg/kg	-- / 500	10	U	10	U	NA		NA		10	U	10	U	10	U	10	U
Total Organic Carbon (ASTM)	mg/l		7.5		2.3		NA		NA		1.2		1.8		3		2.3	
Inorganics:																		
Silver (Total)	mg/kg		2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Aluminum (Total)	mg/kg		11000		13000		17000		7700		11000		7500		15000		6600	
Arsenic (Total)	mg/kg	20	3.8		1		2.3		1.6		0.46		1.6		1.8		1.3	
Barium (Total)	mg/kg	5000	86		110		77		91		110		95		85		37	
Beryllium (Total)	mg/kg		0.84		1.1		0.78		0.44		0.95		0.63		1		0.49	
Calcium (Total)	mg/kg		2900		1300		1200		580		520		500		600		300	
Cadmium (Total)	mg/kg	20	2.7		5.2		2	U	2.8		2	U	2	U	6.1		2.8	
Cobalt (Total)	mg/kg		16		15		14		5.3		10		9.5		8.7		3.2	
Chromium (Total)	mg/kg	1000	19		20		20		21		17		14		22		13	
Copper (Total)	mg/kg	700	9.5		14		13		10		14		14		17		10	
Iron (Total)	mg/kg		17000		35000		11000		15000		10000		8300		65000		18000	
Mercury (Total)	mg/kg	20	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.14		0.1	U
Potassium (Total)	mg/kg		950		1800		2200		1100		1200		800		1900		660	
Magnesium (Total)	mg/kg		1700		1600		1800		980		1600		1200		1500		590	
Manganese (Total)	mg/kg		2700		570		330		320		120		150		1500		54	
Sodium (Total)	mg/kg		200		200		200	U	200	U	200	U	200	U	200	U	200	U
Nickel (Total)	mg/kg	200	24		23		17		15		20		14		17		10	U
Lead (Total)	mg/kg		20	U	21		20		20	U	20	U	20	U	25		20	U
Antimony (Total)	mg/kg		20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Selenium (Total)	mg/kg	60	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	
Thallium (Total)	mg/kg		0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Vanadium (Total)	mg/kg		26		33		31		18		24		20		37		20	
Zinc (Total)	mg/kg	1000	46		75		44		36		59		42		57		29	
Pesticides/Herbicides/PCBs:																		
Aldrin	mg/kg	0.3 / 500	NA		NA		0.05	U	0.05	U	NA		NA		NA		NA	
Aroclor-1016	mg/kg		NA		NA		1	U	1	U	NA		NA		NA		NA	
Aroclor-1221	mg/kg		NA		NA		1	U	1	U	NA		NA		NA		NA	
Aroclor-1232	mg/kg		NA		NA		1	U	1	U	NA		NA		NA		NA	
Aroclor-1242	mg/kg		NA		NA		1	U	1	U	NA		NA		NA		NA	
Aroclor-1248	mg/kg		NA		NA		1	U	1	U	NA		NA		NA		NA	
Aroclor-1254	mg/kg		NA		NA		1	U	1	U	NA		NA		NA		NA	
Aroclor-1260	mg/kg		NA		NA		1	U	1	U	NA		NA		NA		NA	
alpha-BHC	mg/kg		NA		NA		0.05	U	0.05	U	NA		NA		NA		NA	
beta-BHC	mg/kg		NA		NA		0.05	U	0.05	U	NA		NA		NA		NA	
delta-BHC	mg/kg		NA		NA		0.05	U	0.05	U	NA		NA		NA		NA	
gamma-BHC (Lindane)	mg/kg	3 / 10	NA		NA		0.05	U	0.05	U	NA		NA		NA		NA	
alpha-Chlordane	mg/kg	3 / 500	NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
gamma-Chlordane	mg/kg	3 / 500	NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
2,4-D	mg/kg	700 / 2	NA		NA		0.2	U	0.2	U	NA		NA		NA		NA	
4,4'-DDD	mg/kg	20 / 500	NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
4,4'-DDE	mg/kg	10 / 500	NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
4,4'-DDT	mg/kg	10 / 500	NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
Dieldrin	mg/kg	0.3 / 90	NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
Endrin Ketone	mg/kg		NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
Endosulfan I (Alpha)	mg/kg		NA		NA		0.05	U	0.05	U	NA		NA		NA		NA	
Endosulfan II (Beta)	mg/kg		NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
Endrin	mg/kg	20 / 500	NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
Endrin Aldehyde	mg/kg		NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
Endosulfan Sulfate	mg/kg		NA		NA		0.1	U	0.1	U	NA		NA		NA		NA	
Heptachlor	mg/kg	1 / 400	NA		NA		0.05	U	0.05	U	NA		NA		NA		NA	
Heptachlor Epoxide	mg/kg		NA		NA		0.05	U	0.05	U	NA		NA		NA		NA	
Methoxychlor	mg/kg	300 / 200	NA		NA		0.5	U	0.5	U	NA		NA		NA		NA	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled			10/17/94		10/17/94		10/17/94		10/17/94		10/17/94		10/18/94		10/18/94	
Sample ID			B-1, S-2		B-1, S-5		B-2, S-2		B-2, S-4		B-3, S-3		B-3, S-5		B-4, S-3		B-5, S-4	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Aroclor Source			NA		NA		---		---		NA		NA		NA		NA	
Polychlorinated Biphenyls	mg/kg	5 --	NA		NA		1	U	1	U	NA		NA		NA		NA	
2,4,5-TP (Silvex)	mg/kg	600 3	NA		NA		0.08	U	0.08	U	NA		NA		NA		NA	
Semivolatile Organics:																		
Acenaphthene	ug/kg	4x10^6 30,000	NA		NA		330	U	330	U	NA		NA		NA		NA	
Acenaphthylene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Anthracene	ug/kg	2x10^7 70,000	NA		NA		330	U	330	U	NA		NA		NA		NA	
Bis(2-chloro-1-methylethyl)eth	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Bis(2-chloroethyl)ether	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Bis(2-chloroethoxy)methane	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Bis(2-ethylhexyl)phthalate	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Benzo(a)pyrene	ug/kg	600 500,000	NA		NA		330	U	330	U	NA		NA		NA		NA	
Benzo(a)anthracene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Benzo(b)fluoranthene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Benzo(ghi)perylene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Benzo(k)fluoranthene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
4-Bromophenyl phenyl ether	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Butyl benzyl phthalate	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Carbazole	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Chrysene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
2-Chloronaphthalene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
2-Chlorophenol	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
4-Chlorophenyl phenyl ether	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
o-Cresol	ug/kg	3x10^7 / 500	NA		NA		330	U	330	U	NA		NA		NA		NA	
p-Cresol	ug/kg	300,000 / 400	NA		NA		330	U	330	U	NA		NA		NA		NA	
Dibenz(a,h)anthracene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Dibenzofuran	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
2,[illegible]-chlorophenol	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
1,[illegible]-chlorobenzene	ug/kg	5x10^6 / 7,000	NA		NA		330	U	330	U	NA		NA		NA		NA	
1,3-Dichlorobenzene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
1,4-Dichlorobenzene	ug/kg	100,000 / 7,000	NA		NA		330	U	330	U	NA		NA		NA		NA	
3,3'-Dichlorobenzidine	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Diethyl phthalate	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Dimethyl phthalate	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
2,4-Dimethylphenol	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Di-n-butyl phthalate	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
4,6-Dinitro-o-cresol	ug/kg		NA		NA		830	U	830	U	NA		NA		NA		NA	
2,4-Dinitrotoluene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
2,6-Dinitrotoluene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Di-n-octyl phthalate	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
2,4-Dinitrophenol	ug/kg		NA		NA		830	U	830	U	NA		NA		NA		NA	
Fluoranthene	ug/kg	3x10^6 400,000	NA		NA		330	U	330	U	NA		NA		NA		NA	
Fluorene	ug/kg	3x10^6 40,000	NA		NA		330	U	330	U	NA		NA		NA		NA	
Hexachlorocyclopentadiene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Hexachlorobenzene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Hexachlorobutadiene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Hexachloroethane	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Isophorone	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
2-Methylnaphthalene	ug/kg	1x10^7 20,000	NA		NA		330	U	330	U	NA		NA		NA		NA	
N-nitrosodiphenylamine	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
N-nitroso-di-n-propylamine	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
Naphthalene	ug/kg	600,000 / 8,000	NA		NA		330	U	330	U	NA		NA		NA		NA	
2-Nitroaniline	ug/kg		NA		NA		830	U	830	U	NA		NA		NA		NA	
3-Nitroaniline	ug/kg		NA		NA		830	U	830	U	NA		NA		NA		NA	
4-Nitroaniline	ug/kg		NA		NA		830	U	830	U	NA		NA		NA		NA	
Nitrobenzene	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
2-Nitrophenol	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
4-[illegible]phenol	ug/kg		NA		NA		830	U	830	U	NA		NA		NA		NA	
p-[illegible]troaniline	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	
p-Chloro-m-cresol	ug/kg		NA		NA		330	U	330	U	NA		NA		NA		NA	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled			10/17/94		10/17/94		10/17/94		10/17/94		10/17/94		10/17/94		10/18/94		10/18/94	
Sample ID			B-1, S-2		B-1, S-5		B-2, S-2		B-2, S-4		B-3, S-3		B-3, S-5		B-4, S-3		B-5, S-4	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Pentachlorophenol	ug/kg	40,000/200,000		NA		NA	830	U	830	U		NA		NA		NA		NA
Phenanthrene	ug/kg	200,000/80,000		NA		NA	330	U	330	U		NA		NA		NA		NA
Phenol	ug/kg	$4x10^7$ / 200		NA		NA	330	U	330	U		NA		NA		NA		NA
Pyrene	ug/kg	$2x10^6$ / 300,000		NA		NA	330	U	330	U		NA		NA		NA		NA
1,2,4-Trichlorobenzene	ug/kg			NA		NA	330	U	330	U		NA		NA		NA		NA
2,4,5-Trichlorophenol	ug/kg			NA		NA	830	U	830	U		NA		NA		NA		NA
2,4,6-Trichlorophenol	ug/kg			NA		NA	330	U	330	U		NA		NA		NA		NA
Volatile Organics:																		
Acetone	ug/kg		100	U	100	U	100	U	100	U	100	U	100	U	100	U	100	U
Benzene	ug/kg	100,000 / 800	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone (MEK)	ug/kg	$4x10^7$ / 50	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/kg	$1x10^6$ / 3,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorodibromomethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloromethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	ug/kg	700,000 / 500	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/kg	$7x10^5$ / 500	17		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/kg	50,000 / 300	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/kg	700,000 / 1,000	13		5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/kg		330		23		5	U	6.2		5	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	ug/kg	$1x10^6$ / 600	21		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	ug/kg	$7x10^6$ / 5,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	ug/kg		50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Methylene chloride	ug/kg	600,000 / 200	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	ug/kg		50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Styrene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/kg	700,000 / 2,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Toluene	ug/kg	$1x10^7$ / 2,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/kg	$7x10^5$ / 1,000	18		8		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/kg	300,000 / 800	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	ug/kg	400,000 / 2,000	480		**2160**		5	U	200		20		5	U	5	U	5	U
Vinyl chloride	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Xylenes (Total)	ug/kg	$1x10^8$ / 3,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Radiological:																		
Gross Alpha	pCi/g		2.2	+/- 0.9	2.0	+/- 0.9	1.8	+/- 0.9	0.7	U	0.7	U	0.7	U	1.1	+/- 0.8	1.8	+/- 0.9
Gross Beta	pCi/g		1.5	+/- 0.5	0.5	U	0.8	+/- 0.5	0.5	U	0.5	U	0.5	U	0.5	U	1.0	+/- 0.5
Radium (Total)	pCi/g		0.5	U	1.3	+/- 0.6	1.5	+/- 0.4	1.2	+/- 0.5	1.3	+/- 0.6	1.3	+/- 0.5	1.3	+/- 0.4	0.4	+/- 0.2
Uranium-234	pCi/g		0.11	+/- 0.03	0.12	+/- 0.03	0.08	+/- 0.02	0.17	+/- 0.03	0.11	+/- 0.03	0.15	+/- 0.03	0.12	+/- 0.03	0.16	+/- 0.03
Uranium-235	pCi/g		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Uranium-238	pCi/g		0.11	+/- 0.03	0.09	+/- 0.03	0.09	+/- 0.02	0.14	+/- 0.03	0.10	+/- 0.02	0.13	+/- 0.03	0.13	+/- 0.03	0.17	+/- 0.03
Uranium (Total)	ug/g		0.2		0.2		0.3		0.4		0.1		0.4		0.8		0.3	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/19/94		10/19/94		10/19/94		10/19/94		10/18/94		10/18/94		10/19/94		10/19/94	
Sample ID:			B-6, S-2		B-6, S-4		B-7, S-2		B-8, S-3		B-9, S-2		B-10, S-3		B-11, S-3		B-11, S-3 Dup	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:																		
Cyanide (ASTM)	mg/l	1000 mg/kg		NA		NA		NA	0.005	U		NA		NA	0.005	U	0.005	U
Fluoride	mg/kg		120		84		210			NA	150		110			NA		NA
Ammonia (ASTM)	mg/l NH_3-N		0.17		0.1	U	0.1	U		NA	0.1	U	0.1	U		NA		NA
Nitrate (ASTM)	mg/l NO_3-N		0.1	U	0.1	U	0.1	U		NA	0.26		0.1	U		NA		NA
pH	pH units		6.08		4.59		4.55			NA	5.19		4.77			NA		NA
Total Petroleum Hydrocarbons	mg/kg	-- / 500	10	U	10	U	10	U		NA	10	U	10	U		NA		NA
Total Organic Carbon (ASTM)	mg/l		2.3		1		1.6			NA	1.3		1.4			NA		NA
Inorganics:																		
Silver (Total)	mg/kg		2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Aluminum (Total)	mg/kg		15000		8000		5200		9100		17000		6000		6300		5700	
Arsenic (Total)	mg/kg	20	2		2.3		1.5		0.83		8.5		1.9		2.9		1.2	
Barium (Total)	mg/kg	5000	93		32		37		59		110		27		35		29	
Beryllium (Total)	mg/kg		0.88		0.44		0.4	U	0.46		2		0.58		0.54		0.58	
Calcium (Total)	mg/kg		990		370		420		480		1200		240		450		400	
Cadmium (Total)	mg/kg	20	3.4		2.4		2	U	2	U	9.4		3.3		3.4		3.4	
Cobalt (Total)	mg/kg		31		4.8		4.2		4.4		27		3.1		13		7.6	
Chromium (Total)	mg/kg	1000	33		13		12		13		31		14		18		13	
Copper (Total)	mg/kg	700	15		10		11		13		19		9.8		11		11	
Iron (Total)	mg/kg		20000		15000		13000		9300		43000		20000		21000		22000	
Mercury (Total)	mg/kg	20	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Potassium (Total)	mg/kg		1800		1200		690		970		1200		820		660		690	
Magnesium (Total)	mg/kg		1600		590		490		1100		1300		460		550		460	
Manganese (Total)	mg/kg		520		110		110		460		220		48		240		150	
Sodium (Total)	mg/kg		330		200	U	200	U	200	U	200	U	200	U	200	U	200	U
Nickel (Total)	mg/kg	200	78		10	U	10	U	12		25		10	U	30		17	
Lead (Total)	mg/kg		24		20	U	20	U	20	U	43		20	U	20	U	20	U
Antimony (Total)	mg/kg		20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Selenium (Total)	mg/kg	60	0.3		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.38		0.2	U
Thallium (Total)	mg/kg		0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Vanadium (Total)	mg/kg		35		19		16		18		74		17		20		19	
Zinc (Total)	mg/kg	1000	51		31		24		37		62		31		39		37	
Pesticides/Herbicides/PCBs:																		
Aldrin	mg/kg	0.3 / 500		NA		NA		NA	0.05	U		NA		NA	0.05	U	0.05	U
Aroclor-1016	mg/kg			NA		NA		NA	1	U		NA		NA	1	U	1	U
Aroclor-1221	mg/kg			NA		NA		NA	1	U		NA		NA	1	U	1	U
Aroclor-1232	mg/kg			NA		NA		NA	1	U		NA		NA	1	U	1	U
Aroclor-1242	mg/kg			NA		NA		NA	1	U		NA		NA	1	U	1	U
Aroclor-1248	mg/kg			NA		NA		NA	1	U		NA		NA	1	U	1	U
Aroclor-1254	mg/kg			NA		NA		NA	1	U		NA		NA	1	U	1	U
Aroclor-1260	mg/kg			NA		NA		NA	1	U		NA		NA	1	U	1	U
alpha-BHC	mg/kg			NA		NA		NA	0.05	U		NA		NA	0.05	U	0.05	U
beta-BHC	mg/kg			NA		NA		NA	0.05	U		NA		NA	0.05	U	0.05	U
delta-BHC	mg/kg			NA		NA		NA	0.05	U		NA		NA	0.05	U	0.05	U
gamma-BHC (Lindane)	mg/kg	3 / 10		NA		NA		NA	0.05	U		NA		NA	0.05	U	0.05	U
alpha-Chlordane	mg/kg	3 / 500		NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
gamma-Chlordane	mg/kg	3 / 500		NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
2,4-D	mg/kg	700 / 2		NA		NA		NA	0.2	U		NA		NA	0.2	U	0.2	U
4,4'-DDD	mg/kg	20 / 500		NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
4,4'-DDE	mg/kg	10 / 500		NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
4,4'-DDT	mg/kg	10 / 500		NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
Dieldrin	mg/kg	0.3 / 90		NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
Endrin Ketone	mg/kg			NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
Endosulfan I (Alpha)	mg/kg			NA		NA		NA	0.05	U		NA		NA	0.05	U	0.05	U
Endosulfan II (Beta)	mg/kg			NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
Endrin	mg/kg	20 / 500		NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
Endrin Aldehyde	mg/kg			NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
Endosulfan Sulfate	mg/kg			NA		NA		NA	0.1	U		NA		NA	0.1	U	0.1	U
Heptachlor	mg/kg	1 / 400		NA		NA		NA	0.05	U		NA		NA	0.05	U	0.05	U
Heptachlor Epoxide	mg/kg			NA		NA		NA	0.05	U		NA		NA	0.05	U	0.05	U
Methoxychlor	mg/kg	300 / 200		NA		NA		NA	0.5	U		NA		NA	0.5	U	0.5	U

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/19/94		10/19/94		10/19/94		10/19/94		10/18/94		10/18/94		10/19/94		10/19/94	
Sample ID:			B-6, S-2		B-6, S-4		B-7, S-2		B-8, S-3		B-9, S-2		B-10, S-3		B-11, S-3		B-11, S-3 Dup	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Aroclor Source			NA		NA		NA		---		NA		NA		---		---	
Polychlorinated Biphenyls	mg/kg	5 / --	NA		NA		NA		1	U	NA		NA		1	U	1	U
2,4,5-TP (Silvex)	mg/kg	600 / 3	NA		NA		NA		0.08	U	NA		NA		0.08	U	0.08	U
Semivolatile Organics:																		
Acenaphthene	ug/kg	4x10^5 / 30,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
Acenaphthylene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Anthracene	ug/kg	2x10^7 / 70,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
Bis(2-chloro-1-methylethyl)eth	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Bis(2-chloroethyl)ether	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Bis(2-chloroethoxy)methane	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Bis(2-ethylhexyl)phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Benzo(a)pyrene	ug/kg	600 / 500,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
Benzo(a)anthracene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Benzo(b)fluoranthene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Benzo(ghi)perylene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Benzo(k)fluoranthene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
4-Bromophenyl phenyl ether	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Butyl benzyl phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Carbazole	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Chrysene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
2-Chloronaphthalene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
2-Chlorophenol	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
4-Chlorophenyl phenyl ether	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
o-Cresol	ug/kg	3x10^6 / 500	NA		NA		NA		330	U	NA		NA		330	U	330	U
p-Cresol	ug/kg	300,000 / 400	NA		NA		NA		330	U	NA		NA		330	U	330	U
Dibenz(a,h)anthracene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Dibenzofuran	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
2,4 [illegible]hlorophenol	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
1,2 [illegible]chlorobenzene	ug/kg	7x10^6 / 7,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
1,3-Dichlorobenzene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
1,4-Dichlorobenzene	ug/kg	100,000 / 7,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
3,3'-Dichlorobenzidine	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Diethyl phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Dimethyl phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
2,4-Dimethylphenol	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Di-n-butyl phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
4,6-Dinitro-o-cresol	ug/kg		NA		NA		NA		830	U	NA		NA		830	U	810	U
2,4-Dinitrotoluene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
2,6-Dinitrotoluene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Di-n-octyl phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
2,4-Dinitrophenol	ug/kg		NA		NA		NA		830	U	NA		NA		830	U	810	U
Fluoranthene	ug/kg	3x10^6 / 400,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
Fluorene	ug/kg	3x10^6 / 40,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
Hexachlorocyclopentadiene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Hexachlorobenzene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Hexachlorobutadiene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Hexachloroethane	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Indeno(1,2,3-cd)pyrene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Isophorone	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
2-Methylnaphthalene	ug/kg	1x10^6 / 20,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
N-nitrosodiphenylamine	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
N-nitroso-di-n-propylamine	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Naphthalene	ug/kg	600,000 / 8,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
2-Nitroaniline	ug/kg		NA		NA		NA		830	U	NA		NA		830	U	810	U
3-Nitroaniline	ug/kg		NA		NA		NA		830	U	NA		NA		830	U	810	U
4-Nitroaniline	ug/kg		NA		NA		NA		830	U	NA		NA		830	U	810	U
Nitrobenzene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
2-N [illegible]ophenol	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
4 [illegible]phenol	ug/kg		NA		NA		NA		830	U	NA		NA		830	U	810	U
p-Chloroaniline	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
p-Chloro-m-cresol	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/19/94		10/19/94		10/19/94		10/19/94		10/18/94		10/18/94		10/19/94		10/19/94	
Sample ID:			B-6, S-2		B-6, S-4		B-7, S-2		B-8, S-3		B-9, S-2		B-10, S-3		B-11, S-3		B-11, S-3 Dup	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Pentachlorophenol	ug/kg	40,000/200,000	NA		NA		NA		830	U	NA		NA		830	U	810	U
Phenanthrene	ug/kg	200,000/80,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
Phenol	ug/kg	$4x10^7$ / 200	NA		NA		NA		330	U	NA		NA		330	U	330	U
Pyrene	ug/kg	$2x10^7$ / 300,000	NA		NA		NA		330	U	NA		NA		330	U	330	U
1,2,4-Trichlorobenzene	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
2,4,5-Trichlorophenol	ug/kg		NA		NA		NA		830	U	NA		NA		830	U	810	U
2,4,6-Trichlorophenol	ug/kg		NA		NA		NA		330	U	NA		NA		330	U	330	U
Volatile Organics:																		
Acetone	ug/kg		100	U	100	U	100	U	100	U	100	U	100	U	100	U	100	U
Benzene	ug/kg	100,000 / 800	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone (MEK)	ug/kg	$4x10^7$ / 50	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/kg	$1x10^7$ / 3,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorodibromomethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloromethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	ug/kg	700,000 / 500	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/kg	$7x10^7$ / 500	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/kg	50,000 / 300	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/kg	700,000 / 1,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/kg		150		7.5		5	U	5	U	5	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	ug/kg	$1x10^7$ / 600	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	ug/kg	$7x10^7$ / 5,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	ug/kg		50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Methylene chloride	ug/kg	600,000 / 200	9		7.6		11		7.3		5	U	5	U	6		14	
4-Methyl-2-pentanone (MIBK)	ug/kg		50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Styrene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/kg	700,000 / 2,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Toluene	ug/kg	$1x10^7$ / 2,000	7.2		5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/kg	$7x10^7$ / 1,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/kg	300,000 / 800	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	ug/kg	400,000 / 2,000	98		100		5	U	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Xylenes (Total)	ug/kg	$1x10^8$ / 3,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Radiological:																		
Gross Alpha	pCi/g		2.3	+/- 0.7	3.0	+/- 0.8	1.8	+/- 0.7	2.2	+/- 0.7	1.6	+/- 0.8	1.3	+/- 0.8	2.5	+/- 0.7	1.6	+/- 0.6
Gross Beta	pCi/g		0.9	+/- 0.3	0.9	+/- 0.3	0.9	+/- 0.4	1.4	+/- 0.4	0.5	U	0.8	+/- 0.5	0.6	+/- 0.3	2.3	+/- 0.4
Radium (Total)	pCi/g		1.3	+/- 0.1	0.3	U	0.3	U	1.1	+/- 0.4	0.3	U	0.4	+/- 0.1	0.8	+/- 0.4	1.3	+/- 0.4
Uranium-234	pCi/g		0.14	+/- 0.03	0.25	+/- 0.05	0.12	+/- 0.03	0.17	+/- 0.03	0.18	+/- 0.03	0.15	+/- 0.03	0.14	+/- 0.03	0.14	+/- 0.03
Uranium-235	pCi/g		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Uranium-238	pCi/g		0.10	+/- 0.02	0.21	+/- 0.05	0.09	+/- 0.02	0.17	+/- 0.03	0.20	+/- 0.03	0.12	+/- 0.03	0.11	+/- 0.03	0.12	+/- 0.03
Uranium (Total)	ug/g		0.4		0.7		0.2		1.1		0.4		0.3		0.3		0.4	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/19/94		10/20/94		10/20/94		10/20/94		10/24/94		10/24/94		10/24/94		10/24/94	
Sample ID:			B-12, S-3		B-13,S-2		B-14,S-2		B-15,S-2		B-16, S-1		B-16, S-3		B-17, S-2		B-18, S-1	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:																		
Cyanide (ASTM)	mg/l	1000 mg/kg		NA		NA		NA	0.005	U		NA		NA		NA		NA
Fluoride	mg/kg		83		120		99			NA	120		130		200		180	
Ammonia (ASTM)	mg/l NH_3-N		0.1	U	0.38		0.1	U		NA	0.84		0.68		1.4		0.99	
Nitrate (ASTM)	mg/l NO_3-N		0.1	U	0.1		0.1	U		NA	0.1	U	0.1	U	0.1	U	0.1	U
pH	pH units		4.79			NA		NA		NA	6.1		5.2		6.07		7.51	
Total Petroleum Hydrocarbons	mg/kg	-- / 500	10	U	10	U	10	U		NA	10	U	10	U	10	U	10	U
Total Organic Carbon (ASTM)	mg/l		1.3		1	U	1.6			NA	4.9		3		4.1		6.7	
Inorganics:																		
Silver (Total)	mg/kg		2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Aluminum (Total)	mg/kg		3600		7900		8900		9700		6600		9000		6400		6900	
Arsenic (Total)	mg/kg	20	3.7		5		4.7		5.3		5.5		6.3		5.7		5	
Barium (Total)	mg/kg	5000	15		42		35		34		53		76		70		61	
Beryllium (Total)	mg/kg		0.47		0.45		0.46		0.48		0.72		0.47		0.93		0.64	
Calcium (Total)	mg/kg		260		410		390		730		1900		710		3500		4300	
Cadmium (Total)	mg/kg	20	4.2		3.1		3.5		2.9		3.5		2.7		3.2		2.6	
Cobalt (Total)	mg/kg		3.5		11		17		9.8		13		9.1		12		62	
Chromium (Total)	mg/kg	1000	8.8		14		14		13		12		13		10		45	
Copper (Total)	mg/kg	700	8.5		14		13		15		9		13		8.6		12	
Iron (Total)	mg/kg		26000		19000		20000		18000		19000		14000		15000		15000	
Mercury (Total)	mg/kg	20	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.43	
Potassium (Total)	mg/kg		330		660		760		860		250		300		280		420	
Magnesium (Total)	mg/kg		220		1100		1000		1400		820		1100		820		1200	
Manganese (Total)	mg/kg		58		380		640		290		970		290		1200		540	
Sodium (Total)	mg/kg		200	U	410		200	U	340		200	U	200	U	200	U	200	U
Nickel (Total)	mg/kg	200	10	U	14		14		13		12		10	U	16		150	
Lead (Total)	mg/kg		20	U	20	U	20	U	20	U	23		20	U	24		20	U
Antimony (Total)	mg/kg		20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Selenium (Total)	mg/kg	60	0.2	U	0.28		0.25		0.29		0.4		0.28		0.36		0.57	
Thallium (Total)	mg/kg		0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Vanadium (Total)	mg/kg		16		21		23		23		25		22		20		19	
Zinc (Total)	mg/kg	1000	27		38		38		40		31		35		33		34	
Pesticides/Herbicides/PCBs:																		
Aldrin	mg/kg	0.3 / 500		NA		NA		NA	0.05	U		NA		NA		NA		NA
Aroclor-1016	mg/kg			NA		NA		NA	1	U		NA		NA		NA		NA
Aroclor-1221	mg/kg			NA		NA		NA	1	U		NA		NA		NA		NA
Aroclor-1232	mg/kg			NA		NA		NA	1	U		NA		NA		NA		NA
Aroclor-1242	mg/kg			NA		NA		NA	1	U		NA		NA		NA		NA
Aroclor-1248	mg/kg			NA		NA		NA	1	U		NA		NA		NA		NA
Aroclor-1254	mg/kg			NA		NA		NA	1	U		NA		NA		NA		NA
Aroclor-1260	mg/kg			NA		NA		NA	1	U		NA		NA		NA		NA
alpha-BHC	mg/kg			NA		NA		NA	0.05	U		NA		NA		NA		NA
beta-BHC	mg/kg			NA		NA		NA	0.05	U		NA		NA		NA		NA
delta-BHC	mg/kg			NA		NA		NA	0.05	U		NA		NA		NA		NA
gamma-BHC (Lindane)	mg/kg	3 / 10		NA		NA		NA	0.05	U		NA		NA		NA		NA
alpha-Chlordane	mg/kg	3 / 500		NA		NA		NA	0.1	U		NA		NA		NA		NA
gamma-Chlordane	mg/kg	3 / 500		NA		NA		NA	0.1	U		NA		NA		NA		NA
2,4-D	mg/kg	700 / 2		NA		NA		NA	0.2	U		NA		NA		NA		NA
4,4'-DDD	mg/kg	20 / 500		NA		NA		NA	0.1	U		NA		NA		NA		NA
4,4'-DDE	mg/kg	10 / 500		NA		NA		NA	0.1	U		NA		NA		NA		NA
4,4'-DDT	mg/kg	10 / 500		NA		NA		NA	0.1	U		NA		NA		NA		NA
Dieldrin	mg/kg	0.3 / 90		NA		NA		NA	0.1	U		NA		NA		NA		NA
Endrin Ketone	mg/kg			NA		NA		NA	0.1	U		NA		NA		NA		NA
Endosulfan I (Alpha)	mg/kg			NA		NA		NA	0.05	U		NA		NA		NA		NA
Endosulfan II (Beta)	mg/kg			NA		NA		NA	0.1	U		NA		NA		NA		NA
Endrin	mg/kg	20 / 500		NA		NA		NA	0.1	U		NA		NA		NA		NA
Endrin Aldehyde	mg/kg			NA		NA		NA	0.1	U		NA		NA		NA		NA
Endosulfan Sulfate	mg/kg			NA		NA		NA	0.1	U		NA		NA		NA		NA
Heptachlor	mg/kg	1 / 400		NA		NA		NA	0.05	U		NA		NA		NA		NA
Heptachlor Epoxide	mg/kg			NA		NA		NA	0.05	U		NA		NA		NA		NA
Methoxychlor	mg/kg	300 / 200		NA		NA		NA	0.5	U		NA		NA		NA		NA

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/19/94		10/20/94		10/20/94		10/20/94		10/24/94		10/24/94		10/24/94		10/24/94	
Sample ID:			B-12, S-3		B-13,S-2		B-14,S-2		B-15,S-2		B-16, S-1		B-16, S-3		B-17, S-2		B-18, S-1	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Aroclor Source			NA		NA		NA		---		NA		NA		NA		NA	
Polychlorinated Biphenyls	mg/kg	5 / --	NA		NA		NA		1	U	NA		NA		NA		NA	
2,4,5-TP (Silvex)	mg/kg	600 / 3	NA		NA		NA		0.08	U	NA		NA		NA		NA	
Semivolatile Organics:																		
Acenaphthene	ug/kg	4x10^6 / 30,000	NA		NA		NA		330	U	NA		NA		NA		NA	
Acenaphthylene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Anthracene	ug/kg	2x10^7 / 70,000	NA		NA		NA		330	U	NA		NA		NA		NA	
Bis(2-chloro-1-methylethyl)eth	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Bis(2-chloroethyl)ether	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Bis(2-chloroethoxy)methane	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Bis(2-ethylhexyl)phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Benzo(a)pyrene	ug/kg	600 / 500,000	NA		NA		NA		330	U	NA		NA		NA		NA	
Benzo(a)anthracene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Benzo(b)fluoranthene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Benzo(ghi)perylene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Benzo(k)fluoranthene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
4-Bromophenyl phenyl ether	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Butyl benzyl phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Carbazole	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Chrysene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
2-Chloronaphthalene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
2-Chlorophenol	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
4-Chlorophenyl phenyl ether	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
o-Cresol	ug/kg	3x10^7 / 500	NA		NA		NA		330	U	NA		NA		NA		NA	
p-Cresol	ug/kg	300,000 / 400	NA		NA		NA		330	U	NA		NA		NA		NA	
Dibenz(a,h)anthracene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Dibenzofuran	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
2,4-Dichlorophenol	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
1,2-Dichlorobenzene	ug/kg	7x10^7 / 7,000	NA		NA		NA		330	U	NA		NA		NA		NA	
1,3-Dichlorobenzene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
1,4-Dichlorobenzene	ug/kg	100,000 / 7,000	NA		NA		NA		330	U	NA		NA		NA		NA	
3,3'-Dichlorobenzidine	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Diethyl phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Dimethyl phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
2,4-Dimethylphenol	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Di-n-butyl phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
4,6-Dinitro-o-cresol	ug/kg		NA		NA		NA		810	U	NA		NA		NA		NA	
2,4-Dinitrotoluene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
2,6-Dinitrotoluene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Di-n-octyl phthalate	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
2,4-Dinitrophenol	ug/kg		NA		NA		NA		810	U	NA		NA		NA		NA	
Fluoranthene	ug/kg	3x10^6 / 400,000	NA		NA		NA		330	U	NA		NA		NA		NA	
Fluorene	ug/kg	3x10^6 / 40,000	NA		NA		NA		330	U	NA		NA		NA		NA	
Hexachlorocyclopentadiene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Hexachlorobenzene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Hexachlorobutadiene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Hexachloroethane	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Isophorone	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
2-Methylnaphthalene	ug/kg	1x10^7 / 20,000	NA		NA		NA		330	U	NA		NA		NA		NA	
N-nitrosodiphenylamine	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
N-nitroso-di-n-propylamine	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
Naphthalene	ug/kg	600,000 / 8,000	NA		NA		NA		330	U	NA		NA		NA		NA	
2-Nitroaniline	ug/kg		NA		NA		NA		810	U	NA		NA		NA		NA	
3-Nitroaniline	ug/kg		NA		NA		NA		810	U	NA		NA		NA		NA	
4-Nitroaniline	ug/kg		NA		NA		NA		810	U	NA		NA		NA		NA	
Nitrobenzene	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
2-Nitrophenol	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
4-Nitrophenol	ug/kg		NA		NA		NA		810	U	NA		NA		NA		NA	
p-Chloroaniline	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	
p-Chloro-m-cresol	ug/kg		NA		NA		NA		330	U	NA		NA		NA		NA	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled			10/19/94		10/20/94		10/20/94		10/20/94		10/24/94		10/24/94		10/24/94		10/24/94	
Sample ID:			B-12, S-3		B-13,S-2		B-14,S-2		B-15,S-2		B-16, S-1		B-16, S-3		B-17, S-2		B-18, S-1	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Pentachlorophenol	ug/kg	40,000/200,000		NA		NA		NA	810	U		NA		NA		NA		NA
Phenanthrene	ug/kg	200,000/80,000		NA		NA		NA	330	U		NA		NA		NA		NA
Phenol	ug/kg	4x10^7 / 200		NA		NA		NA	330	U		NA		NA		NA		NA
Pyrene	ug/kg	2x10^7 / 300,000		NA		NA		NA	330	U		NA		NA		NA		NA
1,2,4-Trichlorobenzene	ug/kg			NA		NA		NA	330	U		NA		NA		NA		NA
2,4,5-Trichlorophenol	ug/kg			NA		NA		NA	330	U		NA		NA		NA		NA
2,4,6-Trichlorophenol	ug/kg			NA		NA		NA	330	U		NA		NA		NA		NA
Volatile Organics:																		
Acetone	ug/kg		100	U	100	U	100	U	100	U	100	U	100	U	100	U	100	U
Benzene	ug/kg	100,000 / 800	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone (MEK)	ug/kg	4x10^7 / 50	10	U	10	U	10	U	10	U	10	U	10	U	15		10	U
Carbon disulfide	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	76	
Carbon tetrachloride	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/kg	1x10^7 / 3,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorodibromomethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloromethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	ug/kg	700,000 / 500	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/kg	7x10^7 / 500	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/kg	50,000 / 300	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/kg	700,000 / 1,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	ug/kg	1x10^6 / 600	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	ug/kg	7x10^7 / 5,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	ug/kg		50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Methylene chloride	ug/kg	600,000 / 200	6	3	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	ug/kg		50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Styrene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/kg	700,000 / 2,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Toluene	ug/kg	1x10^7 / 2,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/kg	7x10^6 / 1,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/kg	300,000 / 800	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	ug/kg	400,000 / 2,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Xylenes (Total)	ug/kg	1x10^8 / 3,000	5	U	5	1	5	U	5	U	5	U	5	U	5	U	5	U
Radiological:																		
Gross Alpha	pCi/g		1 2	+/- 0 6	1 3	+/- 0 6	3 5	+/- 0 9	1 1	+/- 0 6	1 1	+/- 0 6	1 2	+/- 0 6	1 6	+/- 0 7	1 2	+/- 0 6
Gross Beta	pCi/g		0 5	+/- 0 3	1 0	+/- 0 4	26 4	+/- 1 0	1 8	+/- 0 4	0 6	+/- 0 3	0 5	+/- 0 3	0 9	+/- 0 3	1 6	+/- 0 4
Radium (Total)	pCi/g		0 3	U	1 4	+/- 1 1	0 5	U	0 8	+/- 0 3	2 1	+/- 0 9	3 6	+/- 1 7	0 5	U	1 1	+/- 0 3
Uranium-234	pCi/g		0 13	+/- 0 03	0 11	+/- 0 03	0 08	+/- 0 02	0 07	+/- 0 02	0 06	+/- 0 02	0 14	+/- 0 03	0 26	+/- 0 03	0 08	+/- 0 02
Uranium-235	pCi/g		0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U
Uranium-238	pCi/g		0 14	+/- 0 03	0 08	+/- 0 02	0 10	+/- 0 03	0 06	+/- 0 02	0 09	+/- 0 02	0 15	+/- 0 03	0 21	+/- 0 03	0 09	+/- 0 02
Uranium (Total)	ug/g		0 3		0 3		0 6		0 1		0 5		1 1		1 5		1 2	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/21/94		10/21/94		10/21/94		10/21/94		10/21/94		10/21/94		10/21/94	
Sample ID:			B-19, S-1		B-19, S-1 Dup		B-19, S-3		B-20, S-2		B-21, S-2		B-22, S-1		B-22, S-2		B-23, S-1	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:																		
Cyanide (ASTM)	mg/l	1000 mg/kg	NA		NA		NA		NA		NA		NA		NA		NA	
Fluoride	mg/kg		120		140		69		140		70		160		55		170	
Ammonia (ASTM)	mg/l NH_3-N		0.71		0.8		0.1	U	0.12		0.14		0.1	U	0.41		0.1	U
Nitrate (ASTM)	mg/l NO_3-N		0.14		0.14		0.1		0.12		0.12		0.14		0.14		0.15	
pH	pH units		5.08		5.12		8.13		5.19		7.56		5.36		6.45		7.64	
Total Petroleum Hydrocarbons	mg/kg	-- / 500	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Total Organic Carbon (ASTM)	mg/l		7.4		7.2		2.7		2.3		2.6		4.3		2.2		3.4	
Inorganics:																		
Silver (Total)	mg/kg		2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Aluminum (Total)	mg/kg		7900		7200		3300		5400		5400		6800		6800		4200	
Arsenic (Total)	mg/kg	20	3.2		4.5		3.3		7.7		4.9		4.4		4.3		2.6	
Barium (Total)	mg/kg	5000	80		71		55		29		24		62		24		22	
Beryllium (Total)	mg/kg		1.5		0.85		0.57		0.63		0.4	U	0.51		0.4	U	0.49	
Calcium (Total)	mg/kg		21000		7000		540		770		660		1400		670		770	
Cadmium (Total)	mg/kg	20	2.8		2.9		2	U	4.6		3		2.8		2.7		3.3	
Cobalt (Total)	mg/kg		17		29		8.2		7.8		7.5		32		8.2		8.3	
Chromium (Total)	mg/kg	1000	15		31		8.5		9.6		9.5		26		11		9.3	
Copper (Total)	mg/kg	700	15		20		11		16		11		12		12		11	
Iron (Total)	mg/kg		15000		15000		5900		32000		19000		16000		18000		18000	
Mercury (Total)	mg/kg	20	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Potassium (Total)	mg/kg		540		370		290		230		190		310		260		230	
Magnesium (Total)	mg/kg		2600		1700		740		620		660		870		920		310	
Manganese (Total)	mg/kg		1500		670		88		300		290		520		250		140	
Sodium (Total)	mg/kg		200	U	200	U	200	U	200	U	200	U	200	U	200	U	200	U
Nickel (Total)	mg/kg	200	40		76		11		11		11		77		12		15	
Lead (Total)	mg/kg		20	U	20	U	20	U	20	U	20	U	21		20	U	20	U
Ar[illegible]y (Total)	mg/kg		20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Se[illegible]n (Total)	mg/kg	60	0.25		0.29		0.2	U	0.2	U	0.21		0.31		0.2	U	0.2	U
Thallium (Total)	mg/kg		0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Vanadium (Total)	mg/kg		16		20		18		17		17		18		19		16	
Zinc (Total)	mg/kg	1000	34		41		29		40		34		40		33		29	
Pesticides/Herbicides/PCBs:																		
Aldrin	mg/kg	0.3 / 500	NA		NA		NA		NA		NA		NA		NA		NA	
Aroclor-1016	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Aroclor-1221	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Aroclor-1232	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Aroclor-1242	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Aroclor-1248	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Aroclor-1254	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Aroclor-1260	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
alpha-BHC	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
beta-BHC	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
delta-BHC	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
gamma-BHC (Lindane)	mg/kg	3 / 10	NA		NA		NA		NA		NA		NA		NA		NA	
alpha-Chlordane	mg/kg	3 / 500	NA		NA		NA		NA		NA		NA		NA		NA	
gamma-Chlordane	mg/kg	3 / 500	NA		NA		NA		NA		NA		NA		NA		NA	
2,4-D	mg/kg	700 / 2	NA		NA		NA		NA		NA		NA		NA		NA	
4,4'-DDD	mg/kg	20 / 500	NA		NA		NA		NA		NA		NA		NA		NA	
4,4'-DDE	mg/kg	10 / 500	NA		NA		NA		NA		NA		NA		NA		NA	
4,4'-DDT	mg/kg	10 / 500	NA		NA		NA		NA		NA		NA		NA		NA	
Dieldrin	mg/kg	0.3 / 90	NA		NA		NA		NA		NA		NA		NA		NA	
Endrin Ketone	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Endosulfan I (Alpha)	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Endosulfan II (Beta)	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Endrin	mg/kg	20 / 500	NA		NA		NA		NA		NA		NA		NA		NA	
Endrin Aldehyde	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Endosulfan Sulfate	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
H[illegible]or	mg/kg	1 / 400	NA		NA		NA		NA		NA		NA		NA		NA	
Heptachlor Epoxide	mg/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Methoxychlor	mg/kg	300 / 200	NA		NA		NA		NA		NA		NA		NA		NA	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/21/94		10/21/94		10/21/94		10/21/94		10/21/94		10/21/94		10/21/94		10/21/94	
Sample ID:			B-19, S-1		B-19, S-1 Dup		B-19, S-3		B-20, S-2		B-21, S-2		B-22, S-1		B-22, S-2		B-23, S-1	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Aroclor Source			NA		NA		NA		NA		NA		NA		NA		NA	
Polychlorinated Biphenyls	mg/kg	5 / --	NA		NA		NA		NA		NA		NA		NA		NA	
2,4,5-TP (Silvex)	mg/kg	600 / 3	NA		NA		NA		NA		NA		NA		NA		NA	
Semivolatile Organics:																		
Acenaphthene	ug/kg	4x10⁶ / 30,000	NA		NA		NA		NA		NA		NA		NA		NA	
Acenaphthylene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Anthracene	ug/kg	2x10⁷ / 70,000	NA		NA		NA		NA		NA		NA		NA		NA	
Bis(2-chloro-1-methylethyl)eth	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Bis(2-chloroethyl)ether	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Bis(2-chloroethoxy)methane	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Bis(2-ethylhexyl)phthalate	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	ug/kg	600 / 500,000	NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(a)anthracene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(b)fluoranthene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(ghi)perylene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(k)fluoranthene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
4-Bromophenyl phenyl ether	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Butyl benzyl phthalate	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Carbazole	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Chrysene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2-Chloronaphthalene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2-Chlorophenol	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
4-Chlorophenyl phenyl ether	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
o-Cresol	ug/kg	3x10⁷ / 500	NA		NA		NA		NA		NA		NA		NA		NA	
p-Cresol	ug/kg	300,000 / 400	NA		NA		NA		NA		NA		NA		NA		NA	
Dibenz(a,h)anthracene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Dibenzofuran	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2,4-Dichlorophenol	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichlorobenzene	ug/kg	7x10⁷ / 7,000	NA		NA		NA		NA		NA		NA		NA		NA	
1,3-Dichlorobenzene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	ug/kg	100,000 / 7,000	NA		NA		NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Diethyl phthalate	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2,4-Dimethylphenol	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
4,6-Dinitro-o-cresol	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Fluoranthene	ug/kg	3x10⁷ / 400,000	NA		NA		NA		NA		NA		NA		NA		NA	
Fluorene	ug/kg	3x10⁶ / 40,000	NA		NA		NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Hexachlorobenzene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Hexachloroethane	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Isophorone	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2-Methylnaphthalene	ug/kg	1x10⁷ / 20,000	NA		NA		NA		NA		NA		NA		NA		NA	
N-nitrosodiphenylamine	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
N-nitroso-di-n-propylamine	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene	ug/kg	600,000 / 8,000	NA		NA		NA		NA		NA		NA		NA		NA	
2-Nitroaniline	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
3-Nitroaniline	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
4-Nitroaniline	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Nitrobenzene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2-Nitrophenol	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
4-Nitrophenol	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
p-Chloroaniline	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
p-Chloro-m-cresol	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled			10/21/94		10/21/94		10/21/94		10/21/94		10/21/94		10/21/94		10/21/94	
Sample ID			B-19, S-1		B-19, S-1 Dup		B-19, S-3		B-20, S-2		B-21, S-2		B-22, S-1		B-22, S-2		B-23, S-1	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Pentachlorophenol	ug/kg	40,000 200,000	NA		NA		NA		NA		NA		NA		NA		NA	
Phenanthrene	ug/kg	200,000 80,000	NA		NA		NA		NA		NA		NA		NA		NA	
Phenol	ug/kg	4x10⁷ 200	NA		NA		NA		NA		NA		NA		NA		NA	
Pyrene	ug/kg	2x10⁶ 300,000	NA		NA		NA		NA		NA		NA		NA		NA	
1,2,4-Trichlorobenzene	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2,4,5-Trichlorophenol	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	ug/kg		NA		NA		NA		NA		NA		NA		NA		NA	
Volatile Organics:																		
Acetone	ug/kg		100 U		100 U		100 U		100 U		100 U		100 U		100 U		100 U	
Benzene	ug/kg	100,000 800	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Bromodichloromethane	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Bromoform	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Bromomethane	ug/kg		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
2-Butanone (MEK)	ug/kg	4x10⁷ 50	10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
Carbon disulfide	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Carbon tetrachloride	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Chlorobenzene	ug/kg	10⁷ 3,000	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Chlorodibromomethane	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Chloroethane	ug/kg		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
Chloromethane	ug/kg		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
Chloroform	ug/kg	700,000 500	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
1,1-Dichloroethane	ug/kg	7x10⁷ 500	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
1,2-Dichloroethane	ug/kg	50,000 300	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
1,1-Dichloroethene	ug/kg	700,000 1,000	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
cis-1,2-Dichloroethene	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
trans-1,2-Dichloroethene	ug/kg	1x10⁷ 600	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
1,2-Dichloropropane	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
cis-1,3-Dichloropropene	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
trans-1,3-Dichloropropene	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Ethylbenzene	ug/kg	7x10⁷ 5,000	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
2-Hexanone	ug/kg		50 U		50 U		50 U		50 U		50 U		50 U		50 U		50 U	
Methylene chloride	ug/kg	600,000 200	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
4-Methyl-2-pentanone (MIBK)	ug/kg		50 U		50 U		50 U		50 U		50 U		50 U		50 U		50 U	
Styrene	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
1,1,2,2-Tetrachloroethane	ug/kg		5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Tetrachloroethene	ug/kg	700,000 2,000	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Toluene	ug/kg	1x10⁷ 2,000	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
1,1,1-Trichloroethane	ug/kg	7x10⁷ 1,000	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
1,1,2-Trichloroethane	ug/kg	300,000 800	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Trichloroethene	ug/kg	400,000 2,000	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Vinyl chloride	ug/kg		10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
Xylenes (Total)	ug/kg	1x10⁸ 3,000	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
Radiological:																		
Gross Alpha	pCi/g		2.5 +/- 0.7		2.9 +/- 0.8		1.6 +/- 0.5		2.9 +/- 0.5		1.3 +/- 0.4		1.5 +/- 0.4		1.7 +/- 0.5		5.1 +/- 0.7	
Gross Beta	pCi/g		1.1 +/- 0.4		1.1 +/- 0.4		1.0 +/- 0.4		22.7 +/- 0.8		1.4 +/- 0.4		0.8 +/- 0.3		0.5 U		1.3 +/- 0.4	
Radium (Total)	pCi/g		0.5 +/- 0.3		0.8 +/- 0.2		0.5 U		1.9 +/- 0.6		1.2 +/- 0.6		0.7 +/- 0.3		0.5 U		5.0 +/- 3.3	
Uranium-234	pCi/g		0.24 +/- 0.04		0.13 +/- 0.04		0.05 U		0.11 +/- 0.02		0.14 +/- 0.06		0.30 +/- 0.10		0.09 +/- 0.02		2.22 +/- 0.97	
Uranium-235	pCi/g		0.05 U		0.05 U		0.05 U		0.05 U		0.05 U		0.05 U		0.05 U		0.10 +/- 0.08	
Uranium-238	pCi/g		0.23 +/- 0.04		0.12 +/- 0.04		0.05 U		0.11 +/- 0.02		0.12 +/- 0.05		0.18 +/- 0.07		0.11 +/- 0.02		0.08 +/- 0.08	
Uranium (Total)	ug/g		1.6		0.6		0.1 U		0.2		0.2		0.9		0.3		7.3	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/21/94		10/21/94		10/21/94		10/21/94		10/21/94		10/20/94		10/20/94		10/2[illegible]/94	
Sample ID:			B-24.S-2		B-25.S-1		B-25.S-3		B-26.S-1		B-27.S-1		B-28.S-2		B-29.S-1		B-3[illegible].S-2	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:																		
Cyanide (ASTM)	mg/l	1000 mg/kg	0.036		NA		NA		NA		NA		NA		NA		NA	
Fluoride	mg/kg		NA		100		160		110		120		130		120		13[illegible]	
Ammonia (ASTM)	mg/l NH_3-N		NA		0.13	U	0.17		0.76		0.4		0.21		0.26		0.1	U
Nitrate (ASTM)	mg/l NO_3-N		NA		0.16		0.1		0.72		0.12		0.15		0.18		0.12	
pH	pH units		NA		5.28		5.29		7.43		7.7		NA		NA		NA	
Total Petroleum Hydrocarbons	mg/kg	-- / 500	NA		10	U	10	U	10	U	10	U	10	U	10	U	10	U
Total Organic Carbon (ASTM)	mg/l		NA		2.3		2.3		5		4.3		3.4		1.7		1.[illegible]	
Inorganics:																		
Silver (Total)	mg/kg		2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Aluminum (Total)	mg/kg		2100		5800		2900		4300		4300		6100		13000		660[illegible]	
Arsenic (Total)	mg/kg	20	1.6		5.6		3.6		4.6		3.4		2.2		2.1		3.[illegible]	
Barium (Total)	mg/kg	5000	100		100		44		64		57		30		150		38	
Beryllium (Total)	mg/kg		0.4	U	0.43		0.43		0.71		2.2		0.63		1.2		0.94	
Calcium (Total)	mg/kg		2100		450		330		5500		64000		1000		3200		610[illegible]	
Cadmium (Total)	mg/kg	20	2	U	3.5		4.3		4.5		2.9		3.8		2.5		4.[illegible]	
Cobalt (Total)	mg/kg		11		13		7.3		35		13		12		9.2		19	
Chromium (Total)	mg/kg	1000	5.3		9.9		12		39		12		15		16		19	
Copper (Total)	mg/kg	700	6.5		9.9		9.4		27		29		16		11		33	
Iron (Total)	mg/kg		13000		20000		27000		25000		17000		23000		16000		2706[illegible]	
Mercury (Total)	mg/kg	20	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Potassium (Total)	mg/kg		150		280		170		270		470		770		730		42[illegible]	
Magnesium (Total)	mg/kg		200		510		240		620		860		450		1000		130[illegible]	
Manganese (Total)	mg/kg		670		1500		590		550		360		250		1600		28[illegible]	
Sodium (Total)	mg/kg		200	U	200	U	200	U	200	U	200	U	200	U	200	U	20[illegible]	U
Nickel (Total)	mg/kg	200	10	U	16		11		63		15		14		23		28	
Lead (Total)	mg/kg		20	U	20	U	20	U	540		20	U	20	U	20	U	2[illegible]	U
A[illegible]ony (Total)	mg/kg		20	U	20	U	20	U	20	U	20	U	20	U	20	U	2[illegible]	U
S[illegible]ium (Total)	mg/kg	60	0.2	U	0.25		0.2	U	0.2	U	0.26		0.34		0.4		0.5[illegible]	
Thallium (Total)	mg/kg		0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Vanadium (Total)	mg/kg		10		19		16		17		15		19		23		1[illegible]	
Zinc (Total)	mg/kg	1000	24		31		37		74		47		48		59		6[illegible]	
Pesticides/Herbicides/PCBs:																		
Aldrin	mg/kg	0.3 / 500	0.05	U	NA		NA		NA		NA		NA		NA		NA	
Aroclor-1016	mg/kg		1	U	NA		NA		NA		NA		NA		NA		NA	
Aroclor-1221	mg/kg		1	U	NA		NA		NA		NA		NA		NA		NA	
Aroclor-1232	mg/kg		1	U	NA		NA		NA		NA		NA		NA		NA	
Aroclor-1242	mg/kg		1	U	NA		NA		NA		NA		NA		NA		NA	
Aroclor-1248	mg/kg		1	U	NA		NA		NA		NA		NA		NA		NA	
Aroclor-1254	mg/kg		1	U	NA		NA		NA		NA		NA		NA		NA	
Aroclor-1260	mg/kg		1	U	NA		NA		NA		NA		NA		NA		NA	
alpha-BHC	mg/kg		0.05	U	NA		NA		NA		NA		NA		NA		NA	
beta-BHC	mg/kg		0.05	U	NA		NA		NA		NA		NA		NA		NA	
delta-BHC	mg/kg		0.05	U	NA		NA		NA		NA		NA		NA		NA	
gamma-BHC (Lindane)	mg/kg	3 / 10	0.05	U	NA		NA		NA		NA		NA		NA		NA	
alpha-Chlordane	mg/kg	3 / 500	0.1	U	NA		NA		NA		NA		NA		NA		NA	
gamma-Chlordane	mg/kg	3 / 500	0.1	U	NA		NA		NA		NA		NA		NA		NA	
2,4-D	mg/kg	700 / 2	0.2	U	NA		NA		NA		NA		NA		NA		NA	
4,4'-DDD	mg/kg	20 / 500	0.1	U	NA		NA		NA		NA		NA		NA		NA	
4,4'-DDE	mg/kg	10 / 500	0.1	U	NA		NA		NA		NA		NA		NA		NA	
4,4'-DDT	mg/kg	10 / 500	0.1	U	NA		NA		NA		NA		NA		NA		NA	
Dieldrin	mg/kg	0.3 / 90	0.1	U	NA		NA		NA		NA		NA		NA		NA	
Endrin Ketone	mg/kg		0.1	U	NA		NA		NA		NA		NA		NA		NA	
Endosulfan I (Alpha)	mg/kg		0.05	U	NA		NA		NA		NA		NA		NA		NA	
Endosulfan II (Beta)	mg/kg		0.1	U	NA		NA		NA		NA		NA		NA		NA	
Endrin	mg/kg	20 / 500	0.1	U	NA		NA		NA		NA		NA		NA		NA	
Endrin Aldehyde	mg/kg		0.1	U	NA		NA		NA		NA		NA		NA		NA	
Endosulfan Sulfate	mg/kg		0.1	U	NA		NA		NA		NA		NA		NA		NA	
H[illegible]hlor	mg/kg	1 / 400	0.05	U	NA		NA		NA		NA		NA		NA		NA	
Heptachlor Epoxide	mg/kg		0.05	U	NA		NA		NA		NA		NA		NA		NA	
Methoxychlor	mg/kg	300 / 200	0.5	U	NA		NA		NA		NA		NA		NA		NA	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled / Sample ID			10/21/94 B-24, S-2		10/21/94 B-25, S-1		10/21/94 B-25, S-3		10/21/94 B-26, S-1		10/21/94 B-27, S-1		10/20/94 B-28,S-2		10/20/94 B-29,S-1		10/20/94 B-30,S-2	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Aroclor Source			---		NA		NA		NA		NA		NA		NA		NA	
Polychlorinated Biphenyls	mg/kg	5 / --	1	U	NA		NA		NA		NA		NA		NA		NA	
2,4,5-TP (Silvex)	mg/kg	600 / 3	0.08	U	NA		NA		NA		NA		NA		NA		NA	
Semivolatile Organics:																		
Acenaphthene	ug/kg	4x10⁶ / 30,000	320	U	NA		NA		NA		NA		NA		NA		NA	
Acenaphthylene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Anthracene	ug/kg	2x10⁷ / 70,000	320	U	NA		NA		NA		NA		NA		NA		NA	
Bis(2-chloro-1-methylethyl)eth	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Bis(2-chloroethyl)ether	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Bis(2-chloroethoxy)methane	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Bis(2-ethylhexyl)phthalate	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Benzo(a)pyrene	ug/kg	600 / 500,000	320	U	NA		NA		NA		NA		NA		NA		NA	
Benzo(a)anthracene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Benzo(b)fluoranthene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Benzo(ghi)perylene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Benzo(k)fluoranthene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
4-Bromophenyl phenyl ether	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Butyl benzyl phthalate	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Carbazole	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Chrysene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
2-Chloronaphthalene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
2-Chlorophenol	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
4-Chlorophenyl phenyl ether	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
o-Cresol	ug/kg	3x10⁷ / 500	320	U	NA		NA		NA		NA		NA		NA		NA	
p-Cresol	ug/kg	300,000 / 400	320	U	NA		NA		NA		NA		NA		NA		NA	
Dibenz(a,h)anthracene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Dibenzofuran	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
2,4 chlorophenol	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
1,2 ichlorobenzene	ug/kg	7x10⁷ / 7,000	320	U	NA		NA		NA		NA		NA		NA		NA	
1,3-Dichlorobenzene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	ug/kg	100,000 / 7,000	320	U	NA		NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Diethyl phthalate	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Dimethyl phthalate	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
2,4-Dimethylphenol	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Di-n-butyl phthalate	ug/kg		330		NA		NA		NA		NA		NA		NA		NA	
4,6-Dinitro-o-cresol	ug/kg		820	U	NA		NA		NA		NA		NA		NA		NA	
2,4-Dinitrotoluene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Di-n-octyl phthalate	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol	ug/kg		820	U	NA		NA		NA		NA		NA		NA		NA	
Fluoranthene	ug/kg	3x10⁶ / 400,000	320	U	NA		NA		NA		NA		NA		NA		NA	
Fluorene	ug/kg	3x10⁶ 40,000	320	U	NA		NA		NA		NA		NA		NA		NA	
Hexachlorocyclopentadiene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Hexachlorobenzene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Hexachlorobutadiene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Hexachloroethane	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Isophorone	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
2-Methylnaphthalene	ug/kg	1x10⁷ 20,000	320	U	NA		NA		NA		NA		NA		NA		NA	
N-nitrosodiphenylamine	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
N-nitroso-di-n-propylamine	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Naphthalene	ug/kg	600,000 / 8,000	320	U	NA		NA		NA		NA		NA		NA		NA	
2-Nitroaniline	ug/kg		820	U	NA		NA		NA		NA		NA		NA		NA	
3-Nitroaniline	ug/kg		820	U	NA		NA		NA		NA		NA		NA		NA	
4-Nitroaniline	ug/kg		820	U	NA		NA		NA		NA		NA		NA		NA	
Nitrobenzene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
2-Nitrophenol	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
4-[illegible]phenol	ug/kg		820	U	NA		NA		NA		NA		NA		NA		NA	
p-Chloroaniline	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
p-Chloro-m-cresol	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled			10/21/94		10/21/94		10/21/94		10/21/94		10/21/94		10/20/94		10/20/94		10/2?/94	
Sample ID			B-24, S-2		B-25, S-1		B-25, S-3		B-26, S-1		B-27, S-1		B-28,S-2		B-29,S-1		B-3?, S-2	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Pentachlorophenol	ug/kg	40,000/200,000	820	U	NA		NA		NA		NA		NA		NA		NA	
Phenanthrene	ug/kg	200,000/80,000	320	U	NA		NA		NA		NA		NA		NA		NA	
Phenol	ug/kg	4x10^7 / 200	320	U	NA		NA		NA		NA		NA		NA		NA	
Pyrene	ug/kg	2x10^7 / 300,000	320	U	NA		NA		NA		NA		NA		NA		NA	
1,2,4-Trichlorobenzene	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
2,4,5-Trichlorophenol	ug/kg		820	U	NA		NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol	ug/kg		320	U	NA		NA		NA		NA		NA		NA		NA	
Volatile Organics:																		
Acetone	ug/kg		100	U	100	U	100	U	100	U	100	U	100	U	100	U	10?	U
Benzene	ug/kg	100,000 / 800	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone (MEK)	ug/kg	4x10^7 / 50	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/kg	1x10^7 / 5,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorodibromomethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloromethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	ug/kg	700,000 / 500	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/kg	7x10^7 / 500	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/kg	50,000 / 300	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/kg	700,000 / 1,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	ug/kg	1x10^7 / 600	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	ug/kg	7x10^7 / 5,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	ug/kg		50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Methylene chloride	ug/kg	600,000 / 200	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	ug/kg		50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Styrene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/kg	700,000 / 2,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Toluene	ug/kg	1x10^7 / 2,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/kg	7x10^7 / 1,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/kg	300,000 / 800	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	ug/kg	400,000 / 2,000	15		5	U	5	U	5	U	5	U	5	U	5	U	5	U
Vinyl chloride	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Xylenes (Total)	ug/kg	1x10^8 / 3,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Radiological:																		
Gross Alpha	pCi/g		3.9	+/- 0.7	0.7	+/- 0.4	0.5	U	3.9	+/- 0.8	1.2	U	0.5	+/- 0.4	8.8	+/- 1.0	18.2	+/- 1.8
Gross Beta	pCi/g		2.1	+/- 0.4	0.5	U	0.5	U	0.6	+/- 0.5	0.5	U	0.6	U	1.4	+/- 0.4	6.8	+/- 0.6
Radium (Total)	pCi/g		0.5	U	0.5	U	1.2	+/- 0.4	0.5	U	0.6	+/- 0.3	0.5	U	0.5	+/- 0.2	0.7	+/- 0.4
Uranium-234	pCi/g		1.61	+/- 0.28	0.07	+/- 0.02	0.14	+/- 0.03	0.80	+/- 0.20	0.06	+/- 0.03	2.62	+/- 0.80	8.47	+/- 1.91	6.95	+/- 2.31
Uranium-235	pCi/g		0.05	+/- 0.03	0.05	U	0.05	U	0.05	U	0.05	U	0.07	+/- 0.06	0.38	+/- 0.12	0.34	+/- 0.17
Uranium-238	pCi/g		0.09	+/- 0.03	0.06	+/- 0.02	0.14	+/- 0.03	0.13	+/- 0.05	0.05	U	1.91	+/- 0.10	0.86	+/- 0.23	1.36	+/- 0.50
Uranium (Total)	ug/g		1.4		0.2		0.1	U	1.8		0.1	U	1.1		10.2		2.2	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/20/94		10/20/94		10/24/94		10/25/94		10/24/94		10/25/94		10/25/94		11/01/94	
Sample ID:			B-30, S-4		B-31, S-1		B-32, S-3		B-33, S-3		B-34, S-1		B-35, S-1		B-36, S-1		B-37, S-2	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:																		
Cyanide (ASTM)	mg/l	1000 mg/kg		NA		NA			0.005	U			0.005	U		NA	0.005	U
Fluoride	mg/kg		69		100		55			NA	140			NA	130			NA
Ammonia (ASTM)	mg/l NH_3-N		0.37		0.16		0.1	U		NA	0.7			NA	0.1	U		NA
Nitrate (ASTM)	mg/l NO_3-N		0.21		0.21		0.1	U		NA	0.1	U		NA	0.1	U		NA
pH	pH units			NA		NA	4.92			NA	8.24			NA	---			NA
Total Petroleum Hydrocarbons	mg/kg	-- / 500	10	U	10	U	10	U		NA	10	U		NA	10	U		
Total Organic Carbon (ASTM)	mg/l		1	U	4.3		3.6			NA	4.3			NA	3.3			
Inorganics:																		
Silver (Total)	mg/kg		2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Aluminum (Total)	mg/kg		6900		7100		1500		3600		3500		11000		12000		6000	
Arsenic (Total)	mg/kg	20	3.3		2.6		0.85		3.8		2.6		2.7		3.3		3.7	
Barium (Total)	mg/kg	5000	28		81		7.2		43		42		58		85		79	
Beryllium (Total)	mg/kg		1.1		0.75		0.4	U	0.4	U	0.67		0.72		0.63		0.41	
Calcium (Total)	mg/kg		720		4300		280		480		1100		2800		960		1100	
Cadmium (Total)	mg/kg	20	1.5		3.9		2	U	2	U	3.2		3.3		3		3.1	
Cobalt (Total)	mg/kg		15		36		2	U	6.9		7.8		15		22		33	
Chromium (Total)	mg/kg	1000	21		33		6		9.6		8.3		20		22		34	
Copper (Total)	mg/kg	760	18		310		5		4.6		8.7		28		16		15	
Iron (Total)	mg/kg		99000		21000		2400		8300		21000		18000		18000		12000	
Mercury (Total)	mg/kg	20	0.1	U	0.1	U	0.14		0.1	U	0.33		0.33		0.1	U	0.1	U
Potassium (Total)	mg/kg		800		470		120		390		210		1400		1400		470	
Magnesium (Total)	mg/kg		360		950		310		670		350		1100		1300		740	
Manganese (Total)	mg/kg		590		590		15		210		360		500		860		150	
Sodium (Total)	mg/kg		200	U	200	U	200	U	200	U	200	U	200	U	200	U	200	U
Nickel (Total)	mg/kg	200	24		68		10	U	10	U	10	U	30		35		80	
Lead (Total)	mg/kg		31		250		20	U	20	U	20	U	20	U	20	U	56	
[illegible]ony (Total)	mg/kg		20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Se[illegible]ium (Total)	mg/kg	60	0.33		0.2	U	0.2	U	0.2	U	0.2	U	0.26		0.2	U	0.21	
Thallium (Total)	mg/kg		0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Vanadium (Total)	mg/kg		35		16		10	U	10		17		26		27		17	
Zinc (Total)	mg/kg	1000	94		56		11		20		29		48		49		51	
Pesticides/Herbicides/PCBs:																		
Aldrin	mg/kg	0.3 500		NA		NA		NA	0.05	U		NA	0.05	U		NA	0.05	U
Aroclor-1016	mg/kg			NA		NA		NA	1	U		NA	1	U		NA	1	U
Aroclor-1221	mg/kg			NA		NA		NA	1	U		NA	1	U		NA	1	U
Aroclor-1232	mg/kg			NA		NA		NA	1	U		NA	1	U		NA	1	U
Aroclor-1242	mg/kg			NA		NA		NA	1	U		NA	1	U		NA	1	U
Aroclor-1248	mg/kg			NA		NA		NA	1	U		NA	1	U		NA	1	U
Aroclor-1254	mg/kg			NA		NA		NA	1	U		NA	1	U		NA	1	U
Aroclor-1260	mg/kg			NA		NA		NA	1	U		NA	1	U		NA	1	U
alpha-BHC	mg/kg			NA		NA		NA	0.05	U		NA	0.05	U		NA	0.05	U
beta-BHC	mg/kg			NA		NA		NA	0.05	U		NA	0.05	U		NA	0.05	U
delta-BHC	mg/kg			NA		NA		NA	0.05	U		NA	0.05	U		NA	0.05	U
gamma-BHC (Lindane)	mg/kg	3 10		NA		NA		NA	0.05	U		NA	0.05	U		NA	0.05	U
alpha-Chlordane	mg/kg	3 500		NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
gamma-Chlordane	mg/kg	3 500		NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
2,4-D	mg/kg	700 2		NA		NA		NA	0.2	U		NA	0.2	U		NA	0.2	U
4,4'-DDD	mg/kg	20 500		NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
4,4'-DDE	mg/kg	10 500		NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
4,4'-DDT	mg/kg	10 500		NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
Dieldrin	mg/kg	0.3 90		NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
Endrin Ketone	mg/kg			NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
Endosulfan I (Alpha)	mg/kg			NA		NA		NA	0.05	U		NA	0.05	U		NA	0.05	U
Endosulfan II (Beta)	mg/kg			NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
Endrin	mg/kg	20 500		NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
Endrin Aldehyde	mg/kg			NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
En[illegible]sulfan Sulfate	mg/kg			NA		NA		NA	0.1	U		NA	0.1	U		NA	0.1	U
[illegible]chlor	mg/kg	1 400		NA		NA		NA	0.05	U		NA	0.05	U		NA	0.05	U
Heptachlor Epoxide	mg/kg			NA		NA		NA	0.05	U		NA	0.05	U		NA	0.05	U
Methoxychlor	mg/kg	300 200		NA		NA		NA	0.5	U		NA	0.5	U		NA	0.5	U

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/20/94		10/20/94		10/24/94		10/25/94		10/24/94		10/25/94		10/25/94		11/01/94	
Sample ID:			B-30,S-4		B-31,S-1		B-32, S-3		B-33, S-3		B-34, S-1		B-35, S-1		B-36, S-1		B-37, S-2	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Aroclor Source			NA		NA		NA		---		NA		---		NA		---	
Polychlorinated Biphenyls	mg/kg	5 --	NA		NA		NA		1	U	NA		1	U	NA		1	U
2,4,5-TP (Silvex)	mg/kg	600 3	NA		NA		NA		0.08	U	NA		0.08	U	NA		0.08	U
Semivolatile Organics:																		
Acenaphthene	ug/kg	4x10^6 30,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
Acenaphthylene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Anthracene	ug/kg	2x10^7 70,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
Bis(2-chloro-1-methylethyl)eth	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Bis(2-chloroethyl)ether	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Bis(2-chloroethoxy)methane	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Bis(2-ethylhexyl)phthalate	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Benzo(a)pyrene	ug/kg	600 500,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
Benzo(a)anthracene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Benzo(b)fluoranthene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Benzo(ghi)perylene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Benzo(k)fluoranthene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
4-Bromophenyl phenyl ether	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Butyl benzyl phthalate	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Carbazole	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Chrysene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
2-Chloronaphthalene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
2-Chlorophenol	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
4-Chlorophenyl phenyl ether	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
o-Cresol	ug/kg	3x10^7 500	NA		NA		NA		330	U	NA		330	U	NA		330	U
p-Cresol	ug/kg	300,000 400	NA		NA		NA		330	U	NA		330	U	NA		330	U
Dibenz(a,h)anthracene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Dibenzofuran	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
2,4-Dichlorophenol	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
1,2-Dichlorobenzene	ug/kg	7x10^7 7,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
1,3-Dichlorobenzene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
1,4-Dichlorobenzene	ug/kg	100,000 7,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
3,3'-Dichlorobenzidine	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Diethyl phthalate	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Dimethyl phthalate	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
2,4-Dimethylphenol	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Di-n-butyl phthalate	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
4,6-Dinitro-o-cresol	ug/kg		NA		NA		NA		830	U	NA		830	U	NA		800	U
2,4-Dinitrotoluene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
2,6-Dinitrotoluene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Di-n-octyl phthalate	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
2,4-Dinitrophenol	ug/kg		NA		NA		NA		830	U	NA		830	U	NA		800	U
Fluoranthene	ug/kg	3x10^6 400,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
Fluorene	ug/kg	3x10^6 40,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
Hexachlorocyclopentadiene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Hexachlorobenzene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Hexachlorobutadiene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Hexachloroethane	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Indeno(1,2,3-cd)pyrene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Isophorone	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
2-Methylnaphthalene	ug/kg	1x10^7 20,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
N-nitrosodiphenylamine	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
N-nitroso-di-n-propylamine	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Naphthalene	ug/kg	600,000 8,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
2-Nitroaniline	ug/kg		NA		NA		NA		830	U	NA		830	U	NA		800	U
3-Nitroaniline	ug/kg		NA		NA		NA		830	U	NA		830	U	NA		800	U
4-Nitroaniline	ug/kg		NA		NA		NA		830	U	NA		830	U	NA		800	U
Nitrobenzene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
2-Nitrophenol	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
4-Nitrophenol	ug/kg		NA		NA		NA		830	U	NA		830	U	NA		800	U
p-Chloroaniline	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
p-Chloro-m-cresol	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/20/94		10/20/94		10/24/94		10/25/94		10/24/94		10/25/94		10/25/94		11/01/94	
Sample ID:			B-30, S-4		B-31, S-1		B-32, S-3		B-33, S-3		B-34, S-1		B-35, S-1		B-36, S-1		B-37, S-2	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Pentachlorophenol	ug/kg	40,000/200,000	NA		NA		NA		830	U	NA		830	U	NA		1700	U
Phenanthrene	ug/kg	200,000/80,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
Phenol	ug/kg	4x10^7 200	NA		NA		NA		330	U	NA		330	U	NA		330	U
Pyrene	ug/kg	2x10^6 300,000	NA		NA		NA		330	U	NA		330	U	NA		330	U
1,2,4-Trichlorobenzene	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
2,4,5-Trichlorophenol	ug/kg		NA		NA		NA		830	U	NA		830	U	NA		800	U
2,4,6-Trichlorophenol	ug/kg		NA		NA		NA		330	U	NA		330	U	NA		330	U
Volatile Organics:																		
Acetone	ug/kg		100	U	100	U	100	U	100	U	100	U	100	U	100	U	100	U
Benzene	ug/kg	100,000 800	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone (MEK)	ug/kg	4x10^7 50	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/kg	1x10^7 3,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chlorodibromomethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloromethane	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	ug/kg	700,000 500	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/kg	7x10^7 500	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/kg	50,000 300	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/kg	700,000 1,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,2-Dichloroethene	ug/kg	1x10^7 600	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	ug/kg	7x10^7 5,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	ug/kg		50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Methylene chloride	ug/kg	600,000 200	5	U	5	U	5	U	5	U	5	U	5	U	5	U	23	
4-Methyl-2-pentanone (MIBK)	ug/kg		50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Styrene	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/kg		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/kg	700,000 2,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Toluene	ug/kg	1x10^7 2,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/kg	7x10^7 1,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/kg	300,000 800	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	ug/kg	400,000 2,000	5	U	5	U	5	U	5	U	5	U	5	6	5	U	5	U
Vinyl chloride	ug/kg		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Xylenes (Total)	ug/kg	1x10^8 3,000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Radiological:																		
Gross Alpha	pCi/g		1.2	+/- 0.6	1.9	+/- 0.5	1.7	+/- 0.6	0.5	U	44.3	+/- 2.3	0.5	U	0.5	U	1.0	+/- 0.7
Gross Beta	pCi/g		1.0	+/- 0.4	0.8	+/- 0.3	0.6	+/- 0.3	0.5	U	2.1	+/- 0.3	0.5	U	0.5	U	0.3	U
Radium (Total)	pCi/g		1.6	+/- 0.6	0.5	U	1.2	+/- 0.5	0.5	U	0.5	U	1.9	+/- 1.2	0.5	U	0.5	U
Uranium-234	pCi/g		0.22	+/- 0.05	0.46	+/- 0.04	0.15	+/- 0.03	1.16	+/- 0.13	0.76	+/- 0.09	0.43	+/- 0.05	0.18	+/- 0.03	0.05	U
Uranium-235	pCi/g		0.05	U	0.05	U	0.05	U	0.20	+/- 0.02	0.05	U	0.05	U	0.05	U	0.05	U
Uranium-238	pCi/g		0.10	+/- 0.03	0.23	+/- 0.03	0.14	+/- 0.03	0.59	+/- 0.03	0.18	+/- 0.03	0.19	+/- 0.03	0.09	+/- 0.02	0.05	U
Uranium (Total)	ug/g		0.5		0.6		0.6		1.6		2.2		0.8		0.4		0.7	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled			10/25/94		10/26/94		10/26/94		10/26/94		10/26/94		10/26/94		10/25/94	
Sample ID			B-38, S-1		B-39, S-4		B-39, S-5		B-39, S-6		B-40, S-4		B-40, S-5		B-41, S-2	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:																
Cyanide (ASTM)	mg/l	1000 mg/kg		NA		NA		NA		NA		NA	0.005	U		NA
Fluoride	mg/kg		240			NA	360			NA		NA		NA	87	
Ammonia (ASTM)	mg/l NH_3-N		0.28			NA	0.1	U		NA		NA		NA	0.35	
Nitrate (ASTM)	mg/l NO_3-N		0.1	U		NA	0.1	U		NA		NA		NA	0.1	U
pH	pH units		---			NA	9.95			NA		NA		NA	---	
Total Petroleum Hydrocarbons	mg/kg	-- / 500	10	U		NA	10	U		NA		NA		NA	10	U
Total Organic Carbon (ASTM)	mg/l		3.1			NA	4.3			NA		NA		NA	3.9	
Inorganics:																
Silver (Total)	mg/kg		2	U		NA	110			NA		NA	2	U	2	U
Aluminum (Total)	mg/kg		10000			NA	3600			NA		NA	4600		6700	
Arsenic (Total)	mg/kg	20	4.8			NA	8.1			NA		NA	4.6		1.8	
Barium (Total)	mg/kg	5000	87			NA	110			NA		NA	33		120	
Beryllium (Total)	mg/kg		0.64			NA	0.86			NA		NA	0.41		2	
Calcium (Total)	mg/kg		1300			NA	19000			NA		NA	3500		37000	
Cadmium (Total)	mg/kg	20	2.4			NA	21			NA		NA	5.2		4.9	
Cobalt (Total)	mg/kg		47			NA	1600			NA		NA	210		31	
Chromium (Total)	mg/kg	1000	46			NA	640			NA		NA	93		32	
Copper (Total)	mg/kg	700	11			NA	2	U		NA		NA	100		16	
Iron (Total)	mg/kg		14000			NA	130000			NA		NA	25000		30000	
Mercury (Total)	mg/kg	20	0.38			NA	0.8			NA		NA	0.13		0.1	U
Potassium (Total)	mg/kg		1000			NA	310			NA		NA	580		660	
Magnesium (Total)	mg/kg		1100			NA	1400			NA		NA	2900		5400	
Manganese (Total)	mg/kg		490			NA	1400			NA		NA	200		640	
Sodium (Total)	mg/kg		200	U		NA	380			NA		NA	200	U	200	
Nickel (Total)	mg/kg	200	120			NA	**3800**			NA		NA	**640**		140	
Lead (Total)	mg/kg		24			NA	110			NA		NA	27		20	U
Antimony (Total)	mg/kg		20	U		NA	5000			NA		NA	20	U	20	U
Selenium (Total)	mg/kg	60	0.29			NA	0.23			NA		NA	0.2	U	0.2	U
Thallium (Total)	mg/kg		0.8	U		NA	0.8	U		NA		NA	0.8	U	0.8	U
Vanadium (Total)	mg/kg		22			NA	38			NA		NA	16		14	
Zinc (Total)	mg/kg	1000	59			NA	97			NA		NA	56		26	
Pesticides/Herbicides/PCBs:																
Aldrin	mg/kg	0.3 / 500		NA		NA		NA		NA		NA	0.05	U		NA
Aroclor-1016	mg/kg			NA		NA		NA		NA		NA	1	U		NA
Aroclor-1221	mg/kg			NA		NA		NA		NA		NA	1	U		NA
Aroclor-1232	mg/kg			NA		NA		NA		NA		NA	1	U		NA
Aroclor-1242	mg/kg			NA		NA		NA		NA		NA	1	U		NA
Aroclor-1248	mg/kg			NA		NA		NA		NA		NA	1	U		NA
Aroclor-1254	mg/kg			NA		NA		NA		NA		NA	1	U		NA
Aroclor-1260	mg/kg			NA		NA		NA		NA		NA	1	U		NA
alpha-BHC	mg/kg			NA		NA		NA		NA		NA	0.05	U		NA
beta-BHC	mg/kg			NA		NA		NA		NA		NA	0.05	U		NA
delta-BHC	mg/kg			NA		NA		NA		NA		NA	0.05	U		NA
gamma-BHC (Lindane)	mg/kg	3 / 10		NA		NA		NA		NA		NA	0.05	U		NA
alpha-Chlordane	mg/kg	3 / 500		NA		NA		NA		NA		NA	0.1	U		NA
gamma-Chlordane	mg/kg	3 / 500		NA		NA		NA		NA		NA	0.1	U		NA
2,4-D	mg/kg	700 / 2		NA		NA		NA		NA		NA	0.2	U		NA
4,4'-DDD	mg/kg	20 / 500		NA		NA		NA		NA		NA	0.1	U		NA
4,4'-DDE	mg/kg	10 / 500		NA		NA		NA		NA		NA	0.1	U		NA
4,4'-DDT	mg/kg	10 / 500		NA		NA		NA		NA		NA	0.1	U		NA
Dieldrin	mg/kg	0.3 / 90		NA		NA		NA		NA		NA	0.1	U		NA
Endrin Ketone	mg/kg			NA		NA		NA		NA		NA	0.1	U		NA
Endosulfan I (Alpha)	mg/kg			NA		NA		NA		NA		NA	0.05	U		NA
Endosulfan II (Beta)	mg/kg			NA		NA		NA		NA		NA	0.1	U		NA
Endrin	mg/kg	20 / 500		NA		NA		NA		NA		NA	0.1	U		NA
Endrin Aldehyde	mg/kg			NA		NA		NA		NA		NA	0.1	U		NA
Endosulfan Sulfate	mg/kg			NA		NA		NA		NA		NA	0.1	U		NA
Heptachlor	mg/kg	1 / 400		NA		NA		NA		NA		NA	0.05	U		NA
Heptachlor Epoxide	mg/kg			NA		NA		NA		NA		NA	0.05	U		NA
Methoxychlor	mg/kg	300 / 200		NA		NA		NA		NA		NA	0.5	U		NA

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled			10/25/94		10/26/94		10/26/94		10/26/94		10/26/94		10/26/94		10/25/94	
Sample ID:			B-38, S-1		B-39, S-4		B-39, S-5		B-39, S-6		B-40, S-4		B-40, S-5		B-41, S-2	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Aroclor Source			NA		NA		NA		NA		NA		---		NA	
Polychlorinated Biphenyls	mg/kg	5 / --	NA		NA		NA		NA		NA		1	U	NA	
2,4,5-TP (Silvex)	mg/kg	600 / 3	NA		NA		NA		NA		NA		0.08	U	NA	
Semivolatile Organics:																
Acenaphthene	ug/kg	4x10⁶ / 30,000	NA		NA		NA		NA		NA		330	U	NA	
Acenaphthylene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Anthracene	ug/kg	2x10⁷ / 70,000	NA		NA		NA		NA		NA		330	U	NA	
Bis(2-chloro-1-methylethyl)eth	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Bis(2-chloroethyl)ether	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Bis(2-chloroethoxy)methane	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Bis(2-ethylhexyl)phthalate	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Benzo(a)pyrene	ug/kg	600 / 500,000	NA		NA		NA		NA		NA		330	U	NA	
Benzo(a)anthracene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Benzo(b)fluoranthene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Benzo(ghi)perylene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Benzo(k)fluoranthene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
4-Bromophenyl phenyl ether	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Butyl benzyl phthalate	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Carbazole	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Chrysene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
2-Chloronaphthalene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
2-Chlorophenol	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
4-Chlorophenyl phenyl ether	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
o-Cresol	ug/kg	3x10⁷ / 500	NA		NA		NA		NA		NA		330	U	NA	
p-Cresol	ug/kg	300,000 / 400	NA		NA		NA		NA		NA		330	U	NA	
Dibenz(a,h)anthracene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Dibenzofuran	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
2,4-Dichlorophenol	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
1,2-Dichlorobenzene	ug/kg	7x10⁷ / 7,000	NA		NA		NA		NA		NA		330	U	NA	
1,3-Dichlorobenzene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
1,4-Dichlorobenzene	ug/kg	100,000 / 7,000	NA		NA		NA		NA		NA		330	U	NA	
3,3'-Dichlorobenzidine	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Diethyl phthalate	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Dimethyl phthalate	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
2,4-Dimethylphenol	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Di-n-butyl phthalate	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
4,6-Dinitro-o-cresol	ug/kg		NA		NA		NA		NA		NA		810	U	NA	
2,4-Dinitrotoluene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
2,6-Dinitrotoluene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Di-n-octyl phthalate	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
2,4-Dinitrophenol	ug/kg		NA		NA		NA		NA		NA		810	U	NA	
Fluoranthene	ug/kg	3x10⁷ / 400,000	NA		NA		NA		NA		NA		330	U	NA	
Fluorene	ug/kg	3x10⁷ / 40,000	NA		NA		NA		NA		NA		330	U	NA	
Hexachlorocyclopentadiene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Hexachlorobenzene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Hexachlorobutadiene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Hexachloroethane	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Indeno(1,2,3-cd)pyrene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Isophorone	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
2-Methylnaphthalene	ug/kg	1x10⁷ / 20,000	NA		NA		NA		NA		NA		330	U	NA	
N-nitrosodiphenylamine	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
N-nitroso-di-n-propylamine	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
Naphthalene	ug/kg	600,000 / 8,000	NA		NA		NA		NA		NA		330	U	NA	
2-Nitroaniline	ug/kg		NA		NA		NA		NA		NA		810	U	NA	
3-Nitroaniline	ug/kg		NA		NA		NA		NA		NA		810	U	NA	
4-Nitroaniline	ug/kg		NA		NA		NA		NA		NA		810	U	NA	
Nitrobenzene	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
2-Nitrophenol	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
4-Nitrophenol	ug/kg		NA		NA		NA		NA		NA		810	U	NA	
p-Chloroaniline	ug/kg		NA		NA		NA		NA		NA		330	U	NA	
p-Chloro-m-cresol	ug/kg		NA		NA		NA		NA		NA		330	U	NA	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled			10/25/94		10/26/94		10/26/94		10/26/94		10/26/94		10/26/94		10/25/94	
Sample ID			B-38, S-1		B-39, S-4		B-39, S-5		B-39, S-6		B-40, S-4		B-40, S-5		B-41, S-2	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Pentachlorophenol	ug/kg	40,000/200,000		NA		NA		NA		NA		NA	810	U		NA
Phenanthrene	ug/kg	200,000/80,000		NA		NA		NA		NA		NA	330	U		NA
Phenol	ug/kg	4x10⁷/200		NA		NA		NA		NA		NA	330	U		NA
Pyrene	ug/kg	2x10⁶/300,000		NA		NA		NA		NA		NA	330	U		NA
1,2,4-Trichlorobenzene	ug/kg			NA		NA		NA		NA		NA	330	U		NA
2,4,5-Trichlorophenol	ug/kg			NA		NA		NA		NA		NA	810	U		NA
2,4,6-Trichlorophenol	ug/kg			NA		NA		NA		NA		NA	330	U		NA
Volatile Organics:																
Acetone	ug/kg		100	U		NA	100	U		NA		NA	100	U	100	U
Benzene	ug/kg	100,000/800	5	U		NA	5	U		NA		NA	5	U	5	U
Bromodichloromethane	ug/kg		5	U		NA	5	U		NA		NA	5	U	5	U
Bromoform	ug/kg		5	U		NA	5	U		NA		NA	5	U	5	U
Bromomethane	ug/kg		10	U		NA	10	U		NA		NA	10	U	10	U
2-Butanone (MEK)	ug/kg	4x10⁷/50	10	U		NA	10	U		NA		NA	10	U	10	U
Carbon disulfide	ug/kg		5	U		NA	5	U		NA		NA	5	U	5	U
Carbon tetrachloride	ug/kg		5	U		NA	5	U		NA		NA	5	U	5	U
Chlorobenzene	ug/kg	1x10⁷/3,000	5	U		NA	5	U		NA		NA	5	U	5	U
Chlorodibromomethane	ug/kg		5	U		NA	5	U		NA		NA	5	U	5	U
Chloroethane	ug/kg		10	U		NA	10	U		NA		NA	10	U	10	U
Chloromethane	ug/kg		10	U		NA	10	U		NA		NA	10	U	10	U
Chloroform	ug/kg	700,000/500	5	U		NA	5	U		NA		NA	5	U	5	U
1,1-Dichloroethane	ug/kg	7x10⁷/500	5	U		NA	5	U		NA		NA	5	U	5	U
1,2-Dichloroethane	ug/kg	50,000/300	5	U		NA	5	U		NA		NA	5	U	5	U
1,1-Dichloroethene	ug/kg	700,000/1,000	5	U		NA	5	U		NA		NA	5	U	5	U
cis-1,2-Dichloroethene	ug/kg		5	U		NA	6	3		NA		NA	5	U	5	U
trans-1,2-Dichloroethene	ug/kg	1x10⁷/600	5	U		NA	5	U		NA		NA	5	U	5	U
1,2-Dichloropropane	ug/kg		5	U		NA	5	U		NA		NA	5	U	5	U
cis-1,3-Dichloropropene	ug/kg		5	U		NA	5	U		NA		NA	5	U	5	U
trans-1,3-Dichloropropene	ug/kg		5	U		NA	5	U		NA		NA	5	U	5	U
Ethylbenzene	ug/kg	7x10⁷/5,000	5	U		NA	5	U		NA		NA	5	U	5	U
2-Hexanone	ug/kg		50	U		NA	50	U		NA		NA	50	U	50	U
Methylene chloride	ug/kg	600,000/200	5	U		NA	30			NA		NA	5	U	5	U
4-Methyl-2-pentanone (MIBK)	ug/kg		50	U		NA	50	U		NA		NA	50	U	50	U
Styrene	ug/kg		5	U		NA	5	U		NA		NA	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/kg		5	U		NA	5	U		NA		NA	5	U	5	U
Tetrachloroethene	ug/kg	700,000/2,000	5	U		NA	5	U		NA		NA	5	U	5	U
Toluene	ug/kg	1x10⁷/2,000	5	U		NA	5	U		NA		NA	5	U	5	U
1,1,1-Trichloroethane	ug/kg	7x10⁷/1,000	5	U		NA	5	U		NA		NA	5	U	5	U
1,1,2-Trichloroethane	ug/kg	300,000/800	5	U		NA	5	U		NA		NA	5	U	5	U
Trichloroethene	ug/kg	400,000/2,000	5	U		NA	120			NA		NA	62		5	U
Vinyl chloride	ug/kg		10	U		NA	10	U		NA		NA	10	U	10	U
Xylenes (Total)	ug/kg	1x10⁸/3,000	5	U		NA	5	U		NA		NA	5	U	5	U
Radiological:																
Gross Alpha	pCi/g		0 5	U	8 7	+/- 1 2	16 8	+/- 1 5	2 5	+/- 1 0	80 3	+/- 3 5	8 5	+/- 1 2	2 3	+/- 0 5
Gross Beta	pCi/g		0 5	U	18 9	+/- 0 8	31 9	+/- 1 0	7 2	+/- 0 7	116	+/- 2 0	22 2	+/- 0 9	1 1	+/- 0 2
Radium (Total)	pCi/g		0 5	U	6 9	+/- 1 5	10 2	+/- 2 5	3 9	+/- 1 6	12 0	+/- 2 2	0 5	U	0 5	U
Uranium-234	pCi/g		0 06	+/- 0 01	1 04	+/- 0 11	0 86	+/- 0 11	0 14	+/- 0 02	0 98	+/- 0 14	0 21	+/- 0 03	1 04	+/- 0 12
Uranium-235	pCi/g		0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U	0 05	U
Uranium-238	pCi/g		0 06	+/- 0 01	0 35	+/- 0 04	0 28	+/- 0 05	0 05	+/- 0 01	1 01	+/- 0 14	0 20	+/- 0 03	0 83	+/- 0 10
Uranium (Total)	ug/g		0 4		3 1		2 3		0 3		4 4		1 2		1 9	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/25/94		10/25/94		10/[illegible]/94		10/24/94		10/24/94	
Sample ID:			B-41, S-4		B-42, S-1		B-43, S-1		B-44, S-2		B-44, S-4	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:												
Cyanide (ASTM)	mg/l	1000 mg/kg	NA		NA		0.005 U		NA		NA	
Fluoride	mg/kg		140		160		NA		190		67	
Ammonia (ASTM)	mg/l NH_3-N		0.16		0.1 U		NA		1.1		0.26	
Nitrate (ASTM)	mg/l NO_3-N		0.1 U		0.16		NA		0.1 U		0.1 U	
pH	pH units		---		---		NA		6.07		5.4	
Total Petroleum Hydrocarbons	mg/kg	-- / 500	10 U		10 U		NA		10 U		10 U	
Total Organic Carbon (ASTM)	mg/l		1.8		1.9		NA		4.7		3.1	
Inorganics:												
Silver (Total)	mg/kg		2 U		2 U		2 U		2 U		2 U	
Aluminum (Total)	mg/kg		18000		11000		10000		7200		2400	
Arsenic (Total)	mg/kg	20	2.4		3.7		4.1		5.4		2.1	
Barium (Total)	mg/kg	5000	120		55		59		62		21	
Beryllium (Total)	mg/kg		0.89		0.68		0.64		0.62		0.4 U	
Calcium (Total)	mg/kg		1100		610		1100		2000		320	
Cadmium (Total)	mg/kg	20	5.4		2.9		2.9		3.5		2 U	
Cobalt (Total)	mg/kg		38		59		9.3		8.1		2 U	
Chromium (Total)	mg/kg	1000	23		18		14		11		7.1	
Copper (Total)	mg/kg	700	25		17		10		11		6.7	
Iron (Total)	mg/kg		29000		19000		18000		22000		7700	
Mercury (Total)	mg/kg	20	0.1 U		0.1 U		0.1 U		0.2		0.16	
Potassium (Total)	mg/kg		3800		1200		1000		290		180	
Magnesium (Total)	mg/kg		1900		1000		970		1100		290	
Manganese (Total)	mg/kg		2100		570		470		1500		28	
Sodium (Total)	mg/kg		200 U		200 U		200 U		200 U		200 U	
Nickel (Total)	mg/kg	200	33		57		15		14		10 U	
Lead (Total)	mg/kg		20 U		20 U		20 U		20 U		20 U	
Antimony (Total)	mg/kg		20 U		20 U		20 U		20 U		20 U	
Selenium (Total)	mg/kg	60	0.2 U		0.23		0.2 U		0.2 U		0.25	
Thallium (Total)	mg/kg		0.8 U		0.8 U		0.8 U		0.8 U		0.8 U	
Vanadium (Total)	mg/kg		36		26		24		21		10 U	
Zinc (Total)	mg/kg	1000	64		48		38		29		13	
Pesticides/Herbicides/PCBs:												
Aldrin	mg/kg	0.3 / 500	NA		NA		0.05 U		NA		NA	
Aroclor-1016	mg/kg		NA		NA		1 U		NA		NA	
Aroclor-1221	mg/kg		NA		NA		1 U		NA		NA	
Aroclor-1232	mg/kg		NA		NA		1 U		NA		NA	
Aroclor-1242	mg/kg		NA		NA		1 U		NA		NA	
Aroclor-1248	mg/kg		NA		NA		1 U		NA		NA	
Aroclor-1254	mg/kg		NA		NA		1 U		NA		NA	
Aroclor-1260	mg/kg		NA		NA		1 U		NA		NA	
alpha-BHC	mg/kg		NA		NA		0.05 U		NA		NA	
beta-BHC	mg/kg		NA		NA		0.05 U		NA		NA	
delta-BHC	mg/kg		NA		NA		0.05 U		NA		NA	
gamma-BHC (Lindane)	mg/kg	3 / 10	NA		NA		0.05 U		NA		NA	
alpha-Chlordane	mg/kg	3 / 500	NA		NA		0.1 U		NA		NA	
gamma-Chlordane	mg/kg	3 / 500	NA		NA		0.1 U		NA		NA	
2,4-D	mg/kg	700 / 2	NA		NA		0.2 U		NA		NA	
4,4'-DDD	mg/kg	20 / 500	NA		NA		0.1 U		NA		NA	
4,4'-DDE	mg/kg	10 / 500	NA		NA		0.1 U		NA		NA	
4,4'-DDT	mg/kg	10 / 500	NA		NA		0.1 U		NA		NA	
Dieldrin	mg/kg	0.3 / 90	NA		NA		0.1 U		NA		NA	
Endrin Ketone	mg/kg		NA		NA		0.1 U		NA		NA	
Endosulfan I (Alpha)	mg/kg		NA		NA		0.05 U		NA		NA	
Endosulfan II (Beta)	mg/kg		NA		NA		0.1 U		NA		NA	
Endrin	mg/kg	20 / 500	NA		NA		0.1 U		NA		NA	
Endrin Aldehyde	mg/kg		NA		NA		0.1 U		NA		NA	
Endosulfan Sulfate	mg/kg		NA		NA		0.1 U		NA		NA	
Heptachlor	mg/kg	1 / 400	NA		NA		0.05 U		NA		NA	
Heptachlor Epoxide	mg/kg		NA		NA		0.05 U		NA		NA	
Methoxychlor	mg/kg	300 / 200	NA		NA		0.5 U		NA		NA	

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled			10/25/94		10/25/94		10/25/94		10/24/94		10/24/94	
Sample ID:			B-41, S-4		B-42, S-1		B-43, S-1		B-44, S-2		B-44, S-4	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Aroclor Source				NA		NA	---			NA		NA
Polychlorinated Biphenyls	mg/kg	5 --		NA		NA	1	U		NA		NA
2,4,5-TP (Silvex)	mg/kg	600 / 3		NA		NA	0.08	U		NA		NA
Semivolatile Organics:												
Acenaphthene	ug/kg	4x10^6 30,000		NA		NA	330	U		NA		NA
Acenaphthylene	ug/kg			NA		NA	330	U		NA		NA
Anthracene	ug/kg	2x10^7 70,000		NA		NA	330	U		NA		NA
Bis(2-chloro-1-methylethyl)eth	ug/kg			NA		NA	330	U		NA		NA
Bis(2-chloroethyl)ether	ug/kg			NA		NA	330	U		NA		NA
Bis(2-chloroethoxy)methane	ug/kg			NA		NA	330	U		NA		NA
Bis(2-ethylhexyl)phthalate	ug/kg			NA		NA	330	U		NA		NA
Benzo(a)pyrene	ug/kg	600 500,000		NA		NA	330	U		NA		NA
Benzo(a)anthracene	ug/kg			NA		NA	330	U		NA		NA
Benzo(b)fluoranthene	ug/kg			NA		NA	330	U		NA		NA
Benzo(ghi)perylene	ug/kg			NA		NA	330	U		NA		NA
Benzo(k)fluoranthene	ug/kg			NA		NA	330	U		NA		NA
4-Bromophenyl phenyl ether	ug/kg			NA		NA	330	U		NA		NA
Butyl benzyl phthalate	ug/kg			NA		NA	330	U		NA		NA
Carbazole	ug/kg			NA		NA	330	U		NA		NA
Chrysene	ug/kg			NA		NA	330	U		NA		NA
2-Chloronaphthalene	ug/kg			NA		NA	330	U		NA		NA
2-Chlorophenol	ug/kg			NA		NA	330	U		NA		NA
4-Chlorophenyl phenyl ether	ug/kg			NA		NA	330	U		NA		NA
o-Cresol	ug/kg	3x10^7 500		NA		NA	330	U		NA		NA
p-Cresol	ug/kg	300,000 / 400		NA		NA	330	U		NA		NA
Dibenz(a,h)anthracene	ug/kg			NA		NA	330	U		NA		NA
Dibenzofuran	ug/kg			NA		NA	330	U		NA		NA
2,4-Dichlorophenol	ug/kg			NA		NA	330	U		NA		NA
1,2-Dichlorobenzene	ug/kg	7x10^7 7,000		NA		NA	330	U		NA		NA
1,3-Dichlorobenzene	ug/kg			NA		NA	330	U		NA		NA
1,4-Dichlorobenzene	ug/kg	100,000 / 7,000		NA		NA	330	U		NA		NA
3,3'-Dichlorobenzidine	ug/kg			NA		NA	330	U		NA		NA
Diethyl phthalate	ug/kg			NA		NA	330	U		NA		NA
Dimethyl phthalate	ug/kg			NA		NA	330	U		NA		NA
2,4-Dimethylphenol	ug/kg			NA		NA	330	U		NA		NA
Di-n-butyl phthalate	ug/kg			NA		NA	330	U		NA		NA
4,6-Dinitro-o-cresol	ug/kg			NA		NA	820	U		NA		NA
2,4-Dinitrotoluene	ug/kg			NA		NA	330	U		NA		NA
2,6-Dinitrotoluene	ug/kg			NA		NA	330	U		NA		NA
Di-n-octyl phthalate	ug/kg			NA		NA	330	U		NA		NA
2,4-Dinitrophenol	ug/kg			NA		NA	820	U		NA		NA
Fluoranthene	ug/kg	3x10^6 400,000		NA		NA	330	U		NA		NA
Fluorene	ug/kg	3x10^6 40,000		NA		NA	330	U		NA		NA
Hexachlorocyclopentadiene	ug/kg			NA		NA	330	U		NA		NA
Hexachlorobenzene	ug/kg			NA		NA	330	U		NA		NA
Hexachlorobutadiene	ug/kg			NA		NA	330	U		NA		NA
Hexachloroethane	ug/kg			NA		NA	330	U		NA		NA
Indeno(1,2,3-cd)pyrene	ug/kg			NA		NA	330	U		NA		NA
Isophorone	ug/kg			NA		NA	330	U		NA		NA
2-Methylnaphthalene	ug/kg	1x10^7 20,000		NA		NA	330	U		NA		NA
N-nitrosodiphenylamine	ug/kg			NA		NA	330	U		NA		NA
N-nitroso-di-n-propylamine	ug/kg			NA		NA	330	U		NA		NA
Naphthalene	ug/kg	600,000 8,000		NA		NA	330	U		NA		NA
2-Nitroaniline	ug/kg			NA		NA	820	U		NA		NA
3-Nitroaniline	ug/kg			NA		NA	820	U		NA		NA
4-Nitroaniline	ug/kg			NA		NA	820	U		NA		NA
Nitrobenzene	ug/kg			NA		NA	330	U		NA		NA
2-Nitrophenol	ug/kg			NA		NA	330	U		NA		NA
4-Nitrophenol	ug/kg			NA		NA	820	U		NA		NA
p-Chloroaniline	ug/kg			NA		NA	330	U		NA		NA
p-Chloro-m-cresol	ug/kg			NA		NA	330	U		NA		NA

TABLE 6
SOIL BORING ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Date Sampled:			10/25/94		10/25/94		10/25/94		10/24/94		10/24/94	
Sample ID:			B-41, S-4		B-42, S-1		B-43, S-1		B-44, S-2		B-44, S-4	
Parameter	Units	PADER Interim Level	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Pentachlorophenol	ug/kg	40,000/200,000	NA		NA		820	U	NA		NA	
Phenanthrene	ug/kg	200,000/80,000	NA		NA		330	U	NA		NA	
Phenol	ug/kg	$4x10^7$ / 200	NA		NA		330	U	NA		NA	
Pyrene	ug/kg	$2x10^6$ / 300,000	NA		NA		330	U	NA		NA	
1,2,4-Trichlorobenzene	ug/kg		NA		NA		330	U	NA		NA	
2,4,5-Trichlorophenol	ug/kg		NA		NA		820	U	NA		NA	
2,4,6-Trichlorophenol	ug/kg		NA		NA		330	U	NA		NA	
Volatile Organics:												
Acetone	ug/kg		100	U	100	U	100	U	100	U	10	U
Benzene	ug/kg	100,000 / 800	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/kg		5	U	5	U	5	U	5	U	5	U
Bromoform	ug/kg		5	U	5	U	5	U	5	U	5	U
Bromomethane	ug/kg		10	U	10	U	10	U	10	U	10	U
2-Butanone (MEK)	ug/kg	$4x10^7$ / 50	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	ug/kg		5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/kg		5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/kg	$1x10^7$ / 3,000	5	U	5	U	5	U	5	U	5	U
Chlorodibromomethane	ug/kg		5	U	5	U	5	U	5	U	5	U
Chloroethane	ug/kg		10	U	10	U	10	U	10	U	10	U
Chloromethane	ug/kg		10	U	10	U	10	U	10	U	10	U
Chloroform	ug/kg	700,000 / 500	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/kg	$7x10^6$ / 500	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/kg	50,000 / 300	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/kg	700,000 / 1,000	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/kg		5	U	5	U	5	U	5	U	10	
trans-1,2-Dichloroethene	ug/kg	$1x10^7$ / 600	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/kg		5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/kg		5	U	5	U	5	U	5	U	5	U
Ethylbenzene	ug/kg	$7x10^6$ / 5,000	5	U	5	U	5	U	5	U	5	U
2-Hexanone	ug/kg		50	U	50	U	50	U	50	U	50	U
Methylene chloride	ug/kg	600,000 / 200	5	U	8.9		5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	ug/kg		50	U	50	U	50	U	50	U	50	U
Styrene	ug/kg		5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/kg		5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/kg	700,000 / 2,000	5	U	5	U	5	U	5	U	5	U
Toluene	ug/kg	$1x10^7$ / 2,000	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/kg	$7x10^6$ / 1,000	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/kg	300,000 / 800	5	U	5	U	5	U	5	U	5	U
Trichloroethene	ug/kg	400,000 / 2,000	5	U	5	U	5	U	5	U	26	
Vinyl chloride	ug/kg		10	U	10	U	10	U	10	U	10	U
Xylenes (Total)	ug/kg	$1x10^8$ / 3,000	5	U	5	U	5	U	5	U	5	U
Radiological:												
Gross Alpha	pCi/g		0.5	U	0.5	U	0.5	U	2.1	+/- 0.7	0.6	+/- 0.5
Gross Beta	pCi/g		0.6	+/- 0.4	0.5	U	0.5	U	0.9	+/- 0.3	0.6	+/- 0.3
Radium (Total)	pCi/g		0.5	U	0.5	U	0.5	U	0.5	U	0.9	+/- 0.3
Uranium-234	pCi/g		0.38	+/- 0.04	0.08	+/- 0.02	0.13	+/- 0.02	0.08	+/- 0.02	0.08	+/- 0.02
Uranium-235	pCi/g		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Uranium-238	pCi/g		0.35	+/- 0.04	0.07	+/- 0.02	0.07	+/- 0.01	0.10	+/- 0.03	0.08	+/- 0.02
Uranium (Total)	ug/g		0.6		0.6		0.4		2.9		0.3	

Notes:

1 NA - Sample not analyzed for this compound

2 U - Analyte not detected above quantitation limit

3 PADER Interim Standards listed for inorganics are the generic cleanup standards. For organics, the first standard listed is the lower of the direct contact and cancer risk levels, and the second is the groundwater 2 protection level

4 Results exceeding any interim standard are bold and shaded

TA 7

RADIOLOGICAL DATA
SELECTED SOIL BORING SAMPLES
(GAMMA SPECTROMETRY RESULTS)

Sample ID No.	Boring ID	Sample ID	Cs-137	Tl-208	Bi-212	Bi-214	Pb-212	Pb-214	Ra-226	Ra-228/ Ac-228	Th-228	U-235	Other
B029	B-13	S-1	--	0.610 +/- 0.38	--	--	1.18 +/- 0.48	--	0.890 +/- 0.48	--	1.75 +/- 1.1	0.342 +/- 0.24	--
B030	B-14	S-1	--	0.525 +/- 0.27	--	--	0.755 +/- 0.42	0.667 +/- 0.50	--	--	1.51 +/- 0.77	0.491 +/- 0.34	--
B031	B-15	S-1	--	--	--	--	1.08 +/- 0.39	0.973 +/- 0.54	0.623 +/- 0.48	--	< 1.2	--	--
B032	B-15	S-2*	--	0.375 +/- 0.24	--	--	1.21 +/- 0.53	1.02 +/- 0.58	--	1.40 +/- 1.2	1.08 +/- 0.68	0.259 +/- 0.24	--
B033	B-16	S-3*	--	0.361 +/- 0.25	--	--	0.956 +/- 0.50	--	0.459 +/- 0.42	--	1.04 +/- 0.72	--	--
B034	B-17	S-2*	--	0.345 +/- 0.24	3.56 +/- 1.9	--	0.770 +/- 0.41	--	0.781 +/- 0.37	2.00 +/- 1.3	0.990 +/- 0.69	--	--
B035	B-18	S-2	--	--	--	--	0.949 +/- 0.71	--	--	--	< 0.71	--	--
B036	B-19	S-2	--	--	2.94 +/- 2.5	--	1.30 +/- 0.60	--	0.874 +/- 0.69	--	< 0.80	--	--
B037	B-20	S-2*	--	--	--	--	1.22 +/- 0.49	--	--	--	< 0.49	--	--
B038	B-21	S-1	--	0.645 +/- 0.26	--	--	0.569 +/- 0.45	--	--	--	1.85 +/- 0.76	1.18 +/- 0.42	--
B039	B-22	S-1*	--	0.424 +/- 0.27	--	--	--	--	--	--	1.22 +/- 0.78	0.459 +/- 0.31	--
B040	B-23	S-1*	--	--	--	--	--	--	--	--	< 0.51	1.25 +/- 0.58	--
B041	B-25	S-1*	--	--	--	--	0.975 +/- 0.47	--	--	--	< 0.47	--	--
B042	B-26	S-1*	--	--	--	--	0.777 +/- 0.62	--	--	--	< 0.62	0.993 +/- 0.57	--
B043	B-27	S-2	--	--	--	--	--	--	--	--	< 0.45	--	--
B044	B-30	S-1	--	--	--	--	--	--	--	--	< 1.3	0.759 +/- 0.43	--
B045	B-34	S-1*	--	--	--	--	0.789 +/- 0.52	--	--	--	< 0.52	--	--
B046	B-39	S-5*	--	0.531 +/- 0.40	--	--	--	6.35 +/- 1.6	5.48 +/- 1.5	--	1.53 +/- 1.2	0.668 +/- 0.60	--
B047	B-40	S-4*	--	0.872 +/- 0.69	--	23.1 +/- 2.6	4.21 +/- 1.3	23.7 +/- 2.8	23.1 +/- 2.6	--	2.50 +/- 2.0	4.87 +/- 1.3	--
B048	B-43	S-1*	--	1.09 +/- 0.52	--	12.6 +/- 1.8	0.971 +/- 0.84	16.5 +/- 2.0	12.6 +/- 1.8	--	3.14 +/- 1.5	1.99 +/- 0.76	--
B060	MW-5A	S-1	--	--	--	--	1.91 +/- 0.72	--	0.657 +/- 0.62	--	< 0.72	--	--
B061	MW-5A	S-4	--	0.209 +/- 0.10	--	1.16 +/- 0.34	0.830 +/- 0.15	1.05 +/- 0.28	1.16 +/- 0.34	1.13 +/- 0.74	0.600 +/- 0.29	--	--
B062	MW-6A	S-1	--	--	--	--	1.26 +/- 0.47	--	0.740 +/- 0.60	--	< 0.47	--	--
B063	MW-8A	S-2	--	0.342 +/- 0.29	--	--	1.23 +/- 0.57	--	--	--	0.982 +/- 0.84	--	--
B064	MW-9A	S-1	--	0.405 +/- 0.26	--	--	0.896 +/- 0.53	0.830 +/- 0.49	0.881 +/- 0.47	--	1.16 +/- 0.74	--	--
B059	MW-10A	S-1	--	0.398 +/- 0.28	--	--	1.17 +/- 0.45	--	1.06 +/- 0.66	--	1.14 +/- 0.81	--	--

Notes: All results in pCi/gram +/- 2 sigma at sample date of January 18, 1995.

* These samples are split samples for some of the sample results presented in Table 6.

TAI 7A

RADIOLOGICAL DATA
SELECTED SURFACE SOIL BORING SAMPLES
(GAMMA SPECTROMETRY RESULTS)

Sample ID No.	Hole ID	Sample Depth (in.)	Cs-137	Tl-208	Bi-212	Bi-214	Pb-212	Pb-214	Ra-226	Ra-228/ Ac-228	Th-228	U-235	Other
B065	B-1	0-6	--	0.526 +/- 0.35	--	--	1.35 +/- 0.43	--	0.957 +/- 0.63	--	1.51 +/- 1.0	--	--
B066	B-2	0-6	--	--	--	--	0.874 +/- 0.47	--	1.04 +/- 0.45	--	< 1.3	--	--
B067	B-3	0-6	--	0.395 +/- 0.30	--	--	1.25 +/- 0.45	1.27 +/- 0.50	--	--	1.13 +/- 0.87	--	--
B068	D-3	0-6	0.330 +/- 0.29	--	--	--	0.577 +/- 0.53	--	--	--	< 0.53	--	--
B069	D-8	0-6	0.555 +/- 0.34	--	--	--	0.995 +/- 0.31	0.977 +/- 0.51	1.02 +/- 0.68	--	< 0.65	4.04 +/- 0.61	--
B070	E-1	0-6	0.488 +/- 0.36	--	--	--	0.374 +/- 0.35	1.19 +/- 0.58	0.876 +/- 0.56	--	< 0.35	--	--
B071	E-2	0-6	--	--	--	--	0.607 +/- 0.47	--	--	--	< 0.47	--	--
B072	E-3	0-6	--	--	--	--	0.846 +/- 0.44	--	0.948 +/- 0.49	--	< 0.73	0.504 +/- 0.29	--
B073	E-5	0-6	--	0.305 +/- 0.20	4.75 +/- 2.9	--	1.41 +/- 0.45	0.839 +/- 0.64	1.10 +/- 0.44	--	0.876 +/- 0.57	--	--
B074	E-5	6-12	--	0.701 +/- 0.28	--	--	0.615 +/- 0.40	--	0.595 +/- 0.40	2.34 +/- 1.3	2.01 +/- 0.80	--	--
B075	F-1	0-6	--	0.661 +/- 0.27	--	--	--	--	0.484 +/- 0.34	--	0.951 +/- 0.77	--	--
B076	F-3	6-12	--	--	--	--	0.626 +/- 0.45	--	--	--	< 0.46	--	--
B077	F-8	0-6	--	--	--	--	0.921 +/- 0.45	--	--	--	< 3.80	0.800 +/- 0.33	--
B078	G-1	0-6	--	--	--	--	0.752 +/- 0.48	--	--	--	< 0.80	--	--
B446	G-8	0-6	0.577 +/- 0.21	0.335 +/- 0.16	--	--	0.960 +/- 0.31	0.636 +/- 0.27	0.656 +/- 0.26	--	0.961 +/- 0.47	187.5 +/- 1.5	33.5 +/- 25.7 (U-238)
B447	G-8	6-12	--	0.318 +/- 0.13	--	0.456 +/- 0.21	0.705 +/- 0.25	--	0.456 +/- 0.21	1.67 +/- 0.96	0.912 +/- 0.36	9.66 +/- 0.35	--
B079	H-7	0-6	0.206 +/- 0.12	0.33 +/- 0.18	--	--	0.695 +/- 0.25	0.542 +/- 0.33	0.477 +/- 0.32	1.26 +/- 0.81	0.948 +/- 0.51	0.515 +/- 0.20	0.190 +/- 0.15 (Co-60)
B080	Y-1	0-6	--	0.912 +/- 0.40	--	8.62 +/- 1.2	2.41 +/- 0.52	10.8 +/- 1.3	8.62 +/- 1.2	--	2.62 +/- 1.1	1.33 +/- 0.49	--
B081	Y-1	6-12	--	--	--	6.89 +/- 0.98	1.77 +/- 0.36	7.80 +/- 1.1	6.89 +/- 0.98	4.55 +/- 2.1	< 1.2	0.885 +/- 0.39	--
B082	Z-3	0-6	--	0.373 +/- 0.35	--	4.97 +/- 0.87	1.40 +/- 0.42	5.22 +/- 1.1	4.97 +/- 0.87	--	1.07 +/- 1.0	1.16 +/- 0.46	--
B083	Z-5	0-6	--	0.647 +/- 0.28	--	--	1.77 +/- 0.46	4.16 +/- 0.91	3.83 +/- 0.94	--	1.86 +/- 0.51	--	--

Note: All results in pCi/gram +/- 2 sigma at sample date of January 18, 1995.

TABLE 8
SURFACE WATER ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Sample Date:		10/25/94		10/24/94		10/25/94		10/25/94		10/24/94		10/27/94	
Sample ID:		SW-1		SW-2		SW-3		SW-3 Dup		SW-7		Decon-1	
Parameter	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:													
Fluoride	mg/l	0.35		1		0.19		0.17		0.48		0.61	
Ammonia (ASTM)	mg/l NH_3-N	0.1	U	0.1	U	0.29		0.32		2.1		0.13	
Nitrate (ASTM)	mg/l NO_3-N	0.3		2.1		0.1	U	0.1	U	0.63		1.1	
pH	pH units	7.51		6.87		7.5		7.49		6.44		7.72	
Total Petroleum Hydrocarbons	mg/l	1	U	1	U	1	U	1	U	1	U	1	U
Total Organic Carbon (ASTM)	mg/l	7.9		6.4		6.2		3.5		5.1		17	
Inorganics:													
Silver (Total)	mg/l	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Aluminum (Total)	mg/l	1.1		1.5		1.8		1.8		0.26		0.23	
Arsenic (Total)	mg/l	0.003		0.002		0.006		0.006		0.001		0.001	U
Barium (Total)	mg/l	0.12		0.072		0.12		0.13		0.074		0.045	
Beryllium (Total)	mg/l	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Calcium (Total)	mg/l	42		27		41		41		25		32	
Cadmium (Total)	mg/l	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Cobalt (Total)	mg/l	0.012		0.027		0.01	U	0.011		0.044		0.01	U
Chromium (Total)	mg/l	0.01		0.024		0.01	U	0.011		0.01	U	0.01	U
Copper (Total)	mg/l	0.01	U	0.01		0.016		0.01	U	0.01	U	0.032	
Iron (Total)	mg/l	3.6		1.4		9.3		9.7		54		35	
Mercury (Total)	mg/l	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Potassium (Total)	mg/l	4.2		1.6		1.5		1.5		2.7		1.9	
Magnesium (Total)	mg/l	45		4.4		7.2		7.3		9		6.6	
Manganese (Total)	mg/l	0.85		0.45		1.6		1.7		1.6		0.21	
Sodium (Total)	mg/l	31		16		6.7		6.9		17		20	
Nickel (Total)	mg/l	0.04	U	0.059		0.04	U	0.04	U	0.1		0.04	U
Lead (Total)	mg/l	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Antimony (Total)	mg/l	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Selenium (Total)	mg/l	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Thallium (Total)	mg/l	0.004	U	0.004	U	0.004	U	0.004	U	0.004	U	0.004	U
Vanadium (Total)	mg/l	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Zinc (Total)	mg/l	0.032		0.072		0.046		0.046		0.048		0.36	
Volatile Organics:													
Acetone	ug/l	100	U	100	U	100	U	100	U	100	U	100	U
Benzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/l	5	U	5	U	5	U	5	U	5	U	9.8	
Bromoform	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone (MEK)	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Chlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Chlorodibromomethane	ug/l	5	U	5	U	5	U	5	U	5	U	7.9	
Chloroethane	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
Chloromethane	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	ug/l	5	U	5	U	5	U	5	U	5	U	17	
1,1-Dichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U

TABLE 8
SURFACE WATER ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Sample Date:		10/25/94		10/24/94		10/25/94		10/25/94		10/24/94		10/27/94	
Sample ID:		SW-1		SW-2		SW-3		SW-3 Dup		SW-7		Decon-1	
Parameter	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
trans-1,2-Dichloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
2-Hexanone	ug/l	50	U	50	U	50	U	50	U	50	U	50	U
Methylene chloride	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	ug/l	50	U	50	U	50	U	50	U	50	U	50	U
Styrene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Toluene	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	ug/l	7.5		50		5	U	5	U	5	U	5	U
Vinyl chloride	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
Xylenes (Total)	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Radiological:													
Gross Beta	pCi/l	33 +/- 5		12 +/- 5		24 +/- 5		12 +/- 5		4	U	3	U
Radium (Total)	pCi/l	2	U	2	U	2	U	2	U	2	U	1	U
Uranium-234	pCi/l	14.7 +/- 2.7		3.0 +/- 1.1		3.1 +/- 1.4		0.6	U	0.6	U	0.6	U
Uranium-235	pCi/l	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U
Uranium-238	pCi/l	12.2 +/- 2.4		1.6 +/- 0.8		4.6 +/- 1.6		0.6	U	0.6	U	0.6	U
Uranium (Total)	mg/l	0.008		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U

Notes:

1. U - Analyte not detected above quantitation limit.

TABLE 9
SEDIMENT ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Sample Date:		10/25/94		10/24/94		10/25/94		10/24/94	
Sample ID:		SD-1		SD-2		SD-3		SD-7	
Parameter	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:									
Fluoride	mg/kg	85		100		87		95	
Ammonia (ASTM)	mg/l NH_3-N	0.1	U	0.1	U	0.33		2.4	
Nitrate (ASTM)	mg/l NO_3-N	0.11		0.1	U	0.1	U	0.1	U
pH	pH units	---		7.02		---		6.95	
Total Petroleum Hydrocarbons	mg/kg	100	U	10	U	10	U	10	U
Total Organic Carbon (ASTM)	mg/l	5.5		55		4.1		8.2	
Inorganics:									
Silver (Total)	mg/kg	2	U	3.1		2	U	2	U
Aluminum (Total)	mg/kg	8000		3100		2400		5000	
Arsenic (Total)	mg/kg	5.6		3.2		4.5		3.1	
Barium (Total)	mg/kg	83		43		48		20	
Beryllium (Total)	mg/kg	0.74		0.42		0.48		1.1	
Calcium (Total)	mg/kg	1200		1600		2300		710	
Cadmium (Total)	mg/kg	3.3		2	U	2	U	3.9	
Cobalt (Total)	mg/kg	56		110		11		12	
Chromium (Total)	mg/kg	180		91		12		6.4	
Copper (Total)	mg/kg	17		21		6.7		16	
Iron (Total)	mg/kg	18000		9900		8200		20000	
Mercury (Total)	mg/kg	0.1	U	0.26		0.1	U	0.1	U
Potassium (Total)	mg/kg	1200		130		160		150	
Magnesium (Total)	mg/kg	980		490		390		340	
Manganese (Total)	mg/kg	670		420		490		150	
Sodium (Total)	mg/kg	200	U	200	U	200	U	2[illegible]	U
Nickel (Total)	mg/kg	360		290		31		20	
Lead (Total)	mg/kg	43		28		20	U	20	U
Antimony (Total)	mg/kg	20	U	20	U	20	U	20	U
Selenium (Total)	mg/kg	0.53		0.69		0.2	U	0.54	
Thallium (Total)	mg/kg	0.8	U	0.8	U	0.8	U	0.8	U
Vanadium (Total)	mg/kg	18		10		10	U	10	U
Zinc (Total)	mg/kg	120		66		43		120	
Volatile Organics:									
Acetone	ug/kg	100	U	100	U	100	U	100	U
Benzene	ug/kg	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/kg	5	U	5	U	5	U	5	U
Bromoform	ug/kg	5	U	5	U	5	U	5	U
Bromomethane	ug/kg	10	U	10	U	10	U	10	U
2-Butanone (MEK)	ug/kg	10	U	10	U	10	U	10	U
Carbon disulfide	ug/kg	5	U	5	U	5	U	5	U
Carbon tetrachloride	ug/kg	5	U	5	U	5	U	5	U
Chlorobenzene	ug/kg	5	U	5	U	5	U	5	U
Chlorodibromomethane	ug/kg	5	U	5	U	5	U	5	U
Chloroethane	ug/kg	10	U	10	U	10	U	10	U
Chloromethane	ug/kg	10	U	10	U	10	U	10	U

TABLE 9
SEDIMENT ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Sample Date:		10/25/94		10/24/94		10/25/94		10/24/94	
Sample ID:		SD-1		SD-2		SD-3		SD-7	
Parameter	Units	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Chloroform	ug/kg	5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/kg	5	U	5	U	5	U	5	U
1,2-Dichloroethane	ug/kg	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/kg	5	U	5	U	5	U	5	U
cis-1,2-Dichloroethene	ug/kg	26		13		5	U	5	U
trans-1,2-Dichloroethene	ug/kg	5	U	5	U	5	U	5	U
1,2-Dichloropropane	ug/kg	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/kg	5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/kg	5	U	5	U	5	U	5	U
Ethylbenzene	ug/kg	5	U	5	U	5	U	5	U
2-Hexanone	ug/kg	50	U	50	U	50	U	50	U
Methylene chloride	ug/kg	5	U	5	U	6.8		5	U
4-Methyl-2-pentanone (MIBK)	ug/kg	50	U	50	U	50	U	50	U
Styrene	ug/kg	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/kg	5	U	5	U	5	U	5	U
Tetrachloroethene	ug/kg	5	U	5	U	5	U	5	U
Toluene	ug/kg	5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/kg	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	ug/kg	5	U	5	U	5	U	5	U
Trichloroethene	ug/kg	15		35		5	U	5	U
Vinyl chloride	ug/kg	81		10	U	10	U	10	U
Xylenes (Total)	ug/kg	5	U	5	U	5	U	5	U
Radiological:									
Gross Alpha	pCi/g	0.5	U	3.0	+/- 0.8	0.5	U	0.8	+/- 0.2
Gross Beta	pCi/g	0.5	U	1.6	+/- 0.4	0.5	U	0.4	+/- 0.1
Radium (Total)	pCi/g	0.5	U	0.9	+/- 0.4	4.3	+/- 1.6	0.5	U
Uranium-234	pCi/g	0.08	+/- 0.01	0.05	U	0.08	+/- 0.02	0.16	+/- 0.08
Uranium-235	pCi/g	0.05	U	0.05	U	0.05	U	0.05	U
Uranium-238	pCi/g	0.06	+/- 0.01	0.05	U	0.08	+/- 0.02	0.13	+/- 0.07
Uranium (Total)	ug/g	0.5		1.3		1.2		0.1	U

Notes:

1. U - Analyte not detected above quantitation limit.

TABLE 10
RADIOLOGICAL DATA
SEDIMENT SAMPLES

Sample ID No.	Sediment Sample Location	Cs-137	Tl-208	Bi-212	Bi-214	Pb-212	Pb-214	Ra-226	Ra-228/ Ac-228	Th-228	U-235	Other
B049	SD-2*	--	0.243 +/- 0.19	--	--	0.764 +/- 0.36	--	--	--	0.699 +/- 0.55	--	--
B050	SD-3*	--	--	--	--	--	--	--	--	< 2.0	--	--
B051	SD-7*	--	--	--	--	--	--	--	--	< 1.3	--	--
B052	SD-A	--	--	--	--	--	--	--	--	< 0.43	--	--
B053	SD-B	--	--	--	--	--	0.520 +/- 0.44	--	--	< 1.1	0.281 +/- 0.25	--
B054	SD-C	--	--	--	--	0.353 +/- 0.33	--	--	1.69 +/- 1.2	< 0.58	0.390 +/- 0.375	--
B055	SD-D	--	--	--	--	--	0.677 +/- 0.53	--	--	< 0.72	--	--
B056	SD-E	--	--	--	--	--	--	--	--	< 0.39	0.800 +/- 0.32	--
B057	SD-F	--	--	--	--	0.803 +/- 0.48	--	0.524 +/- 0.49	--	< 0.49	--	--
B058	SD-G	1.59 +/- 0.49	--	--	--	0.816 +/- 0.41	--	--	--	< 0.41	--	--

Notes: All results in pCi/gram +/- 2 sigma at sample date of January 18, 1995.

* These samples are split samples for some of the sample results presented in Table 9.

TABLE 11
GROUNDWATER ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Sample Date:			11/10/94		11/10/94		11/10/94		11/10/94	
Sample ID:			GW-1		MW-2		MW-3		MW-6A	
Parameter	Units	PA MCL	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:										
Fluoride	mg/l	2	0.79		**2.7**		0.1	U	0.1	U
Ammonia	mg/l NH_3-N		0.1	U	0.1	U	1.3		0.1	U
Nitrate	mg/l NO_3-N	10	1.4		7.6		0.1	U	0.1	U
pH	pH units	6.5-8.5 (s)	**6.37**		7.2		6.88		6.86	
Total Petroleum Hydrocarbons	mg/l		1	U	1	U	1	U	1	U
Total Organic Carbon	mg/l		2		3.3		2.2		4.7	
Inorganics:										
Silver (Total/Dissolved)	mg/l	0.05	0.01/0.01	U/U	0.01/0.01	U/U	0.01/0.01	U/U	0.01/0.01	U/U
Aluminum (Total/Dissolved)	mg/l		1.3/1.8		3.4/5.9		1.7/1.5		2.9/1.8	
Arsenic (Total/Dissolved)	mg/l	0.05	0.001/0.001	U/U	0.001/0.001	U/-	0.004/0.005		0.002/0.002	
Barium (Total/Dissolved)	mg/l	1	0.055/0.062		0.2/0.12		0.3/0.19		0.23/0.15	
Beryllium (Total/Dissolved)	mg/l		0.002/0.002	U/U	0.003/0.003		0.002/0.002	U/U	0.002/0.002	U/U
Calcium (Total/Dissolved)	mg/l		26/26		150/150		50/54		24/28	
Cadmium (Total/Dissolved)	mg/l	0.005	0.01/0.005	U/U	0.01/0.005	U/U	0.01/0.005	U/U	0.01/0.005	U/U
Cobalt (Total/Dissolved)	mg/l		0.01/0.01	U/U	0.01/0.01	U/U	0.01/0.01	U/U	0.01/0.01	U/U
Chromium (Total/Dissolved)	mg/l	0.05	0.01/0.01	U/U	0.016/0.019		0.023/0.01	-/U	0.016/0.011	
Copper (Total/Dissolved)	mg/l	1.3 / 1(s)	0.01/0.012	U/-	0.026/0.028		0.015/0.025		0.03/0.02	
Iron (Total/Dissolved)	mg/l	0.3 (s)	**0.75/0.73**		**5.4/7.4**		**15/14**		**17/8.2**	
Mercury (Total/Dissolved)	mg/l	0.002	0.0002/NA	U/-	0.0006/NA		0.0002/NA	U/-	0.0003/NA	
Potassium (Total/Dissolved)	mg/l		1/1.2		2.2/2.9		0.72/0.97		0.98/1.2	
gnesium (Total/Dissolved)	mg/l		3.5/3.9		18/20		8.8/9.8		6.7/7.9	
Manganese (Total/Dissolved)	mg/l	0.05 (s)	**0.3/0.3**		**1.9/2.1**		**0.47/0.50**		**2/2**	
Sodium (Total/Dissolved)	mg/l		11/14		68/71		5.7/8.1		14/18	
Nickel (Total/Dissolved)	mg/l		0.04/0.04	U/U	0.14/0.13		0.04/0.04	U/U	0.04/0.04	U/U
Lead (Total/Dissolved)	mg/l	0.015	0.1/0.1	U/U	0.1/0.1	U/U	0.1/0.1	U/U	0.1/0.1	U/U
Antimony (Total/Dissolved)	mg/l		0.1/0.1	U/U	0.1/0.1	U/U	0.1/0.1	U/U	0.1/0.1	U/U
Selenium (Total/Dissolved)	mg/l	0.01	0.001/0.001	U/U	0.001/0.001	U/U	0.001/0.001	U/U	0.002/0.001	-/U
Thallium (Total/Dissolved)	mg/l		0.004/0.004	U/U	0.004/0.004	U/U	0.004/0.004	U/U	0.004/0.004	U/U
Vanadium (Total/Dissolved)	mg/l		0.05/0.05	U/U	0.05/0.05	U/U	0.05/0.05	U/U	0.05/0.05	U/U
Zinc (Total/Dissolved)	mg/l	5 (s)	0.014/0.028		0.42/0.41		0.039/0.059		0.12/0.06	
Volatile Organics:										
Acetone	ug/l		100	U	100	U	100	U	100	U
Benzene	ug/l	5	5	U	5	U	5	U	5	U
Bromodichloromethane	ug/l		5	U	5	U	5	U	5	U
Bromoform	ug/l		5	U	5	U	5	U	5	U
Bromomethane	ug/l		10	U	10	U	10	U	10	U
2-Butanone (MEK)	ug/l		10	U	10	U	10	U	10	U
Carbon disulfide	ug/l			U	5	U	5	U	5	U
Carbon tetrachloride	ug/l	5		U	5	U	5	U	5	U
Chlorobenzene	ug/l		5	U	5	U	5	U	5	U
Chlorodibromomethane	ug/l		5	U	5	U	5	U	5	U
Chloroethane	ug/l		10	U	10	U	10	U	10	U
Chloromethane	ug/l		10	U	10	U	10	U	10	U
Chloroform	ug/l		5	U	5	U	5	U	5	U
1,1-Dichloroethane	ug/l		5	U	8.8		5	U	5	U
-Dichloroethane	ug/l	5	5	U	5	U	5	U	5	U
1,1-Dichloroethene	ug/l	7	5	U	5	U	**21**		5	U

TABLE 11
GROUNDWATER ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Sample Date:			11/10/94		11/10/94		11/10/94		11/10/94	
Sample ID:			GW-1		MW-2		MW-3		MW-6A	
Parameter	Units	PA MCL	Value	Qual	Value	Qual	Value	Qual	Value	Qual
cis-1,2-Dichloroethene	ug/l	70	5	U	5	U	**590**		5	U
trans-1,2-Dichloroethene	ug/l	100	5	U	5	U	5.7		5	U
1,2-Dichloropropane	ug/l	5	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/l		5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/l		5	U	5	U	5	U	5	U
Ethylbenzene	ug/l	700	5	U	5	U	5	U	5	U
2-Hexanone	ug/l		50	U	50	U	50	U	50	U
Methylene chloride	ug/l		5	U	5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	ug/l		50	U	50	U	50	U	50	U
Styrene	ug/l	100	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/l		5	U	5	U	5	U	5	U
Tetrachloroethene	ug/l	5	5	U	5	U	5	U	5	U
Toluene	ug/l	1000	5	U	5	U	77		5	U
1,1,1-Trichloroethane	ug/l	200	5	U	25		5	U	5	U
1,1,2-Trichloroethane	ug/l		5	U	5	U	5	U	5	U
Trichloroethene	ug/l	5	**150**		**12**		**1500**		5	U
Vinyl chloride	ug/l	2	10	U	10	U	**220**		10	U
Xylenes (Total)	ug/l	10,000	5	U	5	U	5	U	5	U
Radiological:										
Gross Alpha	pCi/l	15	2	U	**38 +/- 6**		**19 +/- 4**		**49 +/- 6**	
Gross Beta	pCi/l		3	U	34 +/- 4		13 +/- 4		45 +/- 4	
[illegible]dium (Total)	pCi/l	5	1	U	1	U	1	U	1	U
[illegible]ranium-234	pCi/l		0.6	U	1.0 +/- 0.8		1.9 +/- 0.7		2.6 +/- 0.7	
Uranium-235	pCi/l		0.6	U	0.6	U	0.6	U	0.6	U
Uranium-238	pCi/l		0.6	U	0.8 +/- 0.6		1.0 +/- 0.6		2.8 +/- 0.7	
Uranium (Total)	mg/l		0.001	U	0.003		0.001	U	0.001	U

TABLE 11
GROUNDWATER ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Sample Date:			11/10/94		11/10/94		11/10/94	
Sample ID:			MW-7A		MW-8A		MW-9A	
Parameter	Units	PA MCL	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:								
Fluoride	mg/l	2	0.1	U	0.1	U	0.1	U
Ammonia	mg/l NH_3-N		0.1	U	0.1	U	0.2	
Nitrate	mg/l NO_3-N	10	0.1	U	0.1	U	0.1	U
pH	pH units	6.5-8.5 (s)	**6.34**		**5.97**		**6.44**	
Total Petroleum Hydrocarbons	mg/l		1	U	1	U	1	U
Total Organic Carbon	mg/l		3.3		2.8		2.7	
Inorganics:								
Silver (Total/Dissolved)	mg/l	0.05	0.01/NA	U/-	0.01/0.01	U/U	0.01/0.01	U/U
Aluminum (Total/Dissolved)	mg/l		0.85/NA		6.5/3.5		11/6.5	
Arsenic (Total/Dissolved)	mg/l	0.05	0.001/NA		0.001/0.001	U/-	0.003/0.001	
Barium (Total/Dissolved)	mg/l	1	0.1/NA		0.85/0.42		0.1/0.1	
Beryllium (Total/Dissolved)	mg/l		0.002/NA	U/-	0.002/0.002	-/U	0.002/0.002	U/U
Calcium (Total/Dissolved)	mg/l		21/NA		30/38		28/30	
Cadmium (Total/Dissolved)	mg/l	0.005	0.005/NA	U/-	**0.01/0.008**		0.01/0.005	U/U
Cobalt (Total/Dissolved)	mg/l		0.024/NA		0.11/0.089		0.029/0.018	
Chromium (Total/Dissolved)	mg/l	0.05	0.01/NA	U/-	0.01/0.016	U/-	**0.052**/0.043	
Copper (Total/Dissolved)	mg/l	1.3 / 1(s)	0.01/NA	U/-	0.038/0.028		0.026/0.027	
Iron (Total/Dissolved)	mg/l	0.3 (s)	**9.9**/NA		**41/21**		**29/14**	
Mercury (Total/Dissolved)	mg/l	0.002	0.0002/NA	U/-	0.0003/NA		**0.0027**/NA	
Potassium (Total/Dissolved)	mg/l		1.8/NA		1.3/1.3		1.9/1.6	
Magnesium (Total/Dissolved)	mg/l		11/NA		8.6/9.3		9.4/8.7	
Manganese (Total/Dissolved)	mg/l	0.05 (s)	**1.7**/NA		**5.2/4.4**		**6.4/6.6**	
Sodium (Total/Dissolved)	mg/l		10/NA		5.9/9		26/30	
Nickel (Total/Dissolved)	mg/l		0.04/NA	U/-	0.08/0.077		0.057/0.041	
Lead (Total/Dissolved)	mg/l	0.015	0.1/NA	U/-	0.1/0.1	U/U	0.1/0.1	U/U
Antimony (Total/Dissolved)	mg/l		0.1/NA	U/-	0.1/0.1	U/U	0.1/0.1	U/U
Selenium (Total/Dissolved)	mg/l	0.01	0.001/NA	U/-	0.001/0.001	U/U	0.001/0.001	U/U
Thallium (Total/Dissolved)	mg/l		0.004/NA	U/-	0.004/0.004	U/U	0.004/0.004	U/U
Vanadium (Total/Dissolved)	mg/l		0.05/NA	U/-	0.05/0.05	U/U	0.05/0.05	U/U
Zinc (Total/Dissolved)	mg/l	5 (s)	0.026		0.093/0.073		0.076/0.067	
Volatile Organics:								
Acetone	ug/l		100	U	100	U	100	U
Benzene	ug/l	5	5	U	5	U	5	U
Bromodichloromethane	ug/l		5	U	5	U	5	U
Bromoform	ug/l		5	U	5	U	5	U
Bromomethane	ug/l		10	U	10	U	10	U
2-Butanone (MEK)	ug/l		10	U	10	U	10	U
Carbon disulfide	ug/l		5	U	5	U	5	U
Carbon tetrachloride	ug/l	5	5	U	5	U	5	U
Chlorobenzene	ug/l		5	U	5	U	5	U
Chlorodibromomethane	ug/l		5	U	5	U	5	U
Chloroethane	ug/l		10	U	10	U	10	U
Chloromethane	ug/l		10	U	10	U	10	U
Chloroform	ug/l		5	U	5	U	5	U
1,1-Dichloroethane	ug/l		5	U	5	U	6.6	
1,2-Dichloroethane	ug/l	5	5	U	5	U	5	U
1,1-Dichloroethene	ug/l	7	5	U	5	U	**20**	

TABLE 11
GROUNDWATER ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Sample Date:			11/10/94		11/10/94		11/10/94	
Sample ID:			MW-7A		MW-8A		MW-9A	
Parameter	Units	PA MCL	Value	Qual	Value	Qual	Value	Qual
cis-1,2-Dichloroethene	ug/l	70	5	U	5	U	**3300**	
trans-1,2-Dichloroethene	ug/l	100	5	U	5	U	29	
1,2-Dichloropropane	ug/l	5	5	U	5	U	5	U
cis-1,3-Dichloropropene	ug/l		5	U	5	U	5	U
trans-1,3-Dichloropropene	ug/l		5	U	5	U	5	U
Ethylbenzene	ug/l	700	5	U	5	U	5	U
2-Hexanone	ug/l		50	U	50	U	50	U
Methylene chloride	ug/l		5	U	5	U	5	U
4-Methyl-2-pentanone (MIBK)	ug/l		50	U	50	U	50	U
Styrene	ug/l	100	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	ug/l		5	U	5	U	5	U
Tetrachloroethene	ug/l	5	5	U	5	U	**6**	
Toluene	ug/l	1000	5	U	5	U	5	U
1,1,1-Trichloroethane	ug/l	200	5	U	5	U	24	
1,1,2-Trichloroethane	ug/l		5	U	5	U	5	U
Trichloroethene	ug/l	5	5	U	5	U	**22000**	
Vinyl chloride	ug/l	2	10	U	10	U	**49**	
Xylenes (Total)	ug/l	10,000	5	U	5	U	5	U
Radiological:								
Gross Alpha	pCi/l	15	14 +/- 3		**25 +/- 5**		**20 +/- 4**	
Gross Beta	pCi/l		23 +/- 4		46 +/- 4		34 +/- 4	
Radium (Total)	pCi/l	5	3	U	2 +/- 1		1	U
Uranium-234	pCi/l		0.6	U	12.3 +/- 3.8		0.6	U
Uranium-235	pCi/l		0.6	U	0.8 +/- 0.6		0.6	U
Uranium-238	pCi/l		0.6	U	14.7 +/- 4.3		0.6	U
Uranium (Total)	mg/l		0.001		0.001	U	0.001	

TABLE 11
GROUNDWATER ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Sample Date:			11/10/94		11/10/94		11/10/94	
Sample ID:			MW-9AD		MW-10A		GW-EQB	
Parameter	Units	PA MCL	Value	Qual	Value	Qual	Value	Qual
Miscellaneous Parameters:								
Fluoride	mg/l	2	0.1 U		0.1 U		0.1 U	
Ammonia	mg/l NH_3-N		0.14		0.1 U		0.1 U	
Nitrate	mg/l NO_3-N	10	0.1 U		0.1 U		0.2	
pH	pH units	6.5-8.5 (s)	**6.45**		**5.36**		**5.94**	
Total Petroleum Hydrocarbons	mg/l		1 U		1 U		1 U	
Total Organic Carbon	mg/l		2.6		2.8		1 U	
Inorganics:								
Silver (Total/Dissolved)	mg/l	0.05	0.01/0.01	U/U	0.01/0.01	U/U	0.01/0.01	U/U
Aluminum (Total/Dissolved)	mg/l		4.8/5.6		1.5/5.7		0.1/0.1	U/U
Arsenic (Total Dissolved)	mg/l	0.05	0.001/0.002		0.001/0.001	U/U	0.001/0.001	U/U
Barium (Total Dissolved)	mg/l	1	0.088/0.097		0.095/0.28		0.02/0.02	U/U
Beryllium (Total Dissolved)	mg/l		0.002/0.002	U/U	0.002/0.006	U/-	0.002/0.002	U/U
Calcium (Total Dissolved)	mg/l		27/30		7.5/24		1/1	U/U
Cadmium (Total Dissolved)	mg/l	0.005	0.01/0.005	U/U	0.01/**0.013**	U/-	0.01/0.005	U/U
Cobalt (Total Dissolved)	mg/l		0.01/0.016	U/-	0.023/0.042		0.01/0.01	U/U
Chromium (Total/Dissolved)	mg/l	0.05	0.039/0.036		0.01/0.01	U/U	0.01/0.01	U/U
Copper (Total/Dissolved)	mg/l	1.3 / 1(s)	0.014/0.026		0.01/0.053		0.01/0.01	U/U
Iron (Total/Dissolved)	mg/l	0.3 (s)	**11/12**		**4.8/10**		0.032/0.03	-/U
Mercury (Total Dissolved)	mg/l	0.002	0.0012/NA		0.001/NA		0.0002/NA	U/-
Potassium (Total/Dissolved)	mg/l		1.4/1.7		0.5/0.77	U/-	0.5/0.5	U/U
Magnesium (Total/Dissolved)	mg/l		7.8/8.6		4.3/6.5		0.5/0.54	U/-
Manganese (Total/Dissolved)	mg/l	0.05 (s)	**6.5/6.6**		**0.37/0.55**		0.01/0.01	U/U
Sodium (Total Dissolved)	mg/l		28/31		4.5/6.8		1/2.4	U/-
Nickel (Total/Dissolved)	mg/l		0.04/0.056	U/-	0.04/0.04	U/U	0.04/0.04	U/U
Lead (Total/Dissolved)	mg/l	0.015	0.1/**0.27**	U/-	0.1/0.1	U/U	0.1/0.1	U/U
Antimony (Total/Dissolved)	mg/l		0.1/0.1	U/U	0.1/0.1	U/U	0.1/0.1	U/U
Selenium (Total Dissolved)	mg/l	0.01	0.001/0.001	U/U	0.001/0.001	U/U	0.001/0.001	U/U
Thallium (Total Dissolved)	mg/l		0.004/0.004	U/U	0.004/0.004	U/U	0.004/0.004	U/U
Vanadium (Total/Dissolved)	mg/l		0.05/0.05	U/U	0.05/0.05	U/U	0.05/0.05	U/U
Zinc (Total/Dissolved)	mg/l	5 (s)	0.031/0.055		0.035/0.1		0.005/0.019	U/-
Volatile Organics:								
Acetone	ug/l		100 U		100 U		100 U	
Benzene	ug/l	5	5 U		5 U		5 U	
Bromodichloromethane	ug/l		5 U		5 U		5 U	
Bromoform	ug/l		5 U		5 U		5 U	
Bromomethane	ug/l		10 U		10 U		10 U	
2-Butanone (MEK)	ug/l		10 U		10 U		10 U	
Carbon disulfide	ug/l		5 U		5 U		5 U	
Carbon tetrachloride	ug/l	5	5 U		5 U		5 U	
Chlorobenzene	ug/l		5 U		5 U		5 U	
Chlorodibromomethane	ug/l		5 U		5 U		5 U	
Chloroethane	ug/l		10 U		10 U		10 U	
Chloromethane	ug/l		10 U		10 U		10 U	
Chloroform	ug/l		5 U		5 U		5 U	
1,1-Dichloroethane	ug/l		6.2		5 U		5 U	
1,2-Dichloroethane	ug/l	5	5 U		5 U		5 U	
1,1-Dichloroethene	ug/l	7	**19**		5 U		5 U	

TABLE 11
GROUNDWATER ANALYTICAL RESULTS
BLAIRSVILLE FACILITY

Sample Date:			11/10/94		11/10/94		11/10/94	
Sample ID:			MW-9AD		MW-10A		GW-EQB	
Parameter	Units	PA MCL	Value	Qual	Value	Qual	Value	Qual
cis-1.2-Dichloroethene	ug/l	70	**2900**		5 U		5 U	
trans-1.2-Dichloroethene	ug/l	100	25		5 U		5 U	
1.2-Dichloropropane	ug/l	5	5 U		5 U		5 U	
cis-1.3-Dichloropropene	ug/l		5 U		5 U		5 U	
trans-1.3-Dichloropropene	ug/l		5 U		5 U		5 U	
Ethylbenzene	ug/l	700	5 U		5 U		5 U	
2-Hexanone	ug/l		50 U		50 U		50 U	
Methylene chloride	ug/l		5 U		5 U		5 U	
4-Methyl-2-pentanone (MIBK)	ug/l		50 U		50 U		50 U	
Styrene	ug/l	100	5 U		5 U		5 U	
1.1.2.2-Tetrachloroethane	ug/l		5 U		5 U		5 U	
Tetrachloroethene	ug/l	5	**5.6**		5 U		5 U	
Toluene	ug/l	1000	5 U		5 U		5 U	
1.1.1-Trichloroethane	ug/l	200	22		5 U		5 U	
1.1.2-Trichloroethane	ug/l		5 U		5 U		5 U	
Trichloroethene	ug/l	5	**21000**		5 U		5 U	
Vinyl chloride	ug/l	2	**47**		10 U		10 U	
Xylenes (Total)	ug/l	10,000	5 U		5 U		5 U	
Radiological:								
Gross Alpha	pCi/l	15	**20 +/- 4**		7 +/- 2		2 U	
Gross Beta	pCi/l		21 +/- 4		8 +/- 4		3 U	
Radium (Total)	pCi/l	5	1 U		1 U		1 U	
Uranium-234	pCi/l		1.8 +/- 0.5		0.7 +/- 0.6		0.7 +/- 0.5	
Uranium-235	pCi/l		0.6 U		0.6 U		0.6 U	
Uranium-238	pCi/l		1.6 +/- 0.5		0.6 U		1.7 +/- 0.7	
Uranium (Total)	mg/l		0.001 U		0.001 U		0.001 U	

Notes:

1. U - Analyte not detected above quantitation limit.
2. (s) - MCL listed is for secondary contaminant.
3. Results exceeding primary MCLs are bold and shaded.
4. Results exceeding secondary MCLs are bold.
5. NA - Sample not analyzed due to insufficient volume.

FIGURES


DRAWING NUMBER 9317 21
PLOT SCALE: 1=
CONEMAUGH
RIVER
ELEVATION 880
RAILROAD
LAKE
GRADE
INDIANA CO
WESTMORELAND CO
Gas Well
Livermore Cem
BM 942
PIPELINE
SITE
#1
#3
#4
#5
#6
#7
#8
Water Tank
Substation
Run
Spruce
LANE
Trailer Park
D E R R Y

9101301888-01

FIGURE 1

LEGEND:

#1☼ NATURAL GAS WELL ON WESTINGHOUSE PROPERTY (LOCATION APPROXIMATE)

REFERENCE:

7.5-MIN. TOPOGRAPHIC QUADRANGLE; BLAIRSVILLE, PENNSYLVANIA, 1964, PHOTOREVISED 1981, SCALE 1:24000, 20-FOOT CONTOUR INTERVAL.

SCALE

0 2000 4000 FEET

SITE LOCATION MAP
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA

PREPARED FOR
WESTINGHOUSE ELECTRIC CORPORATION
PITTSBURGH, PA

CUMMINGS RITER CONSULTANTS, INC.

DRAWING NUMBER
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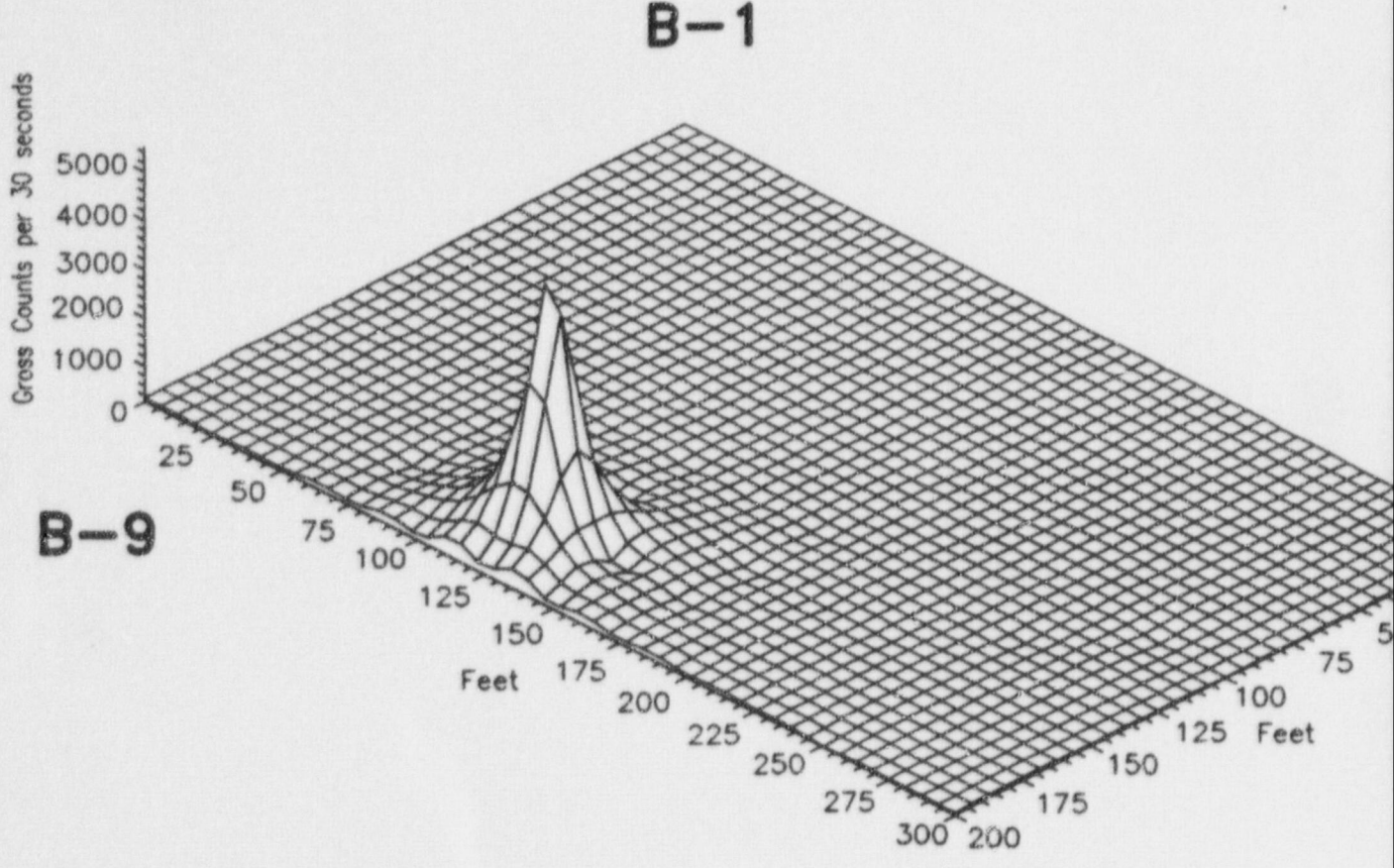
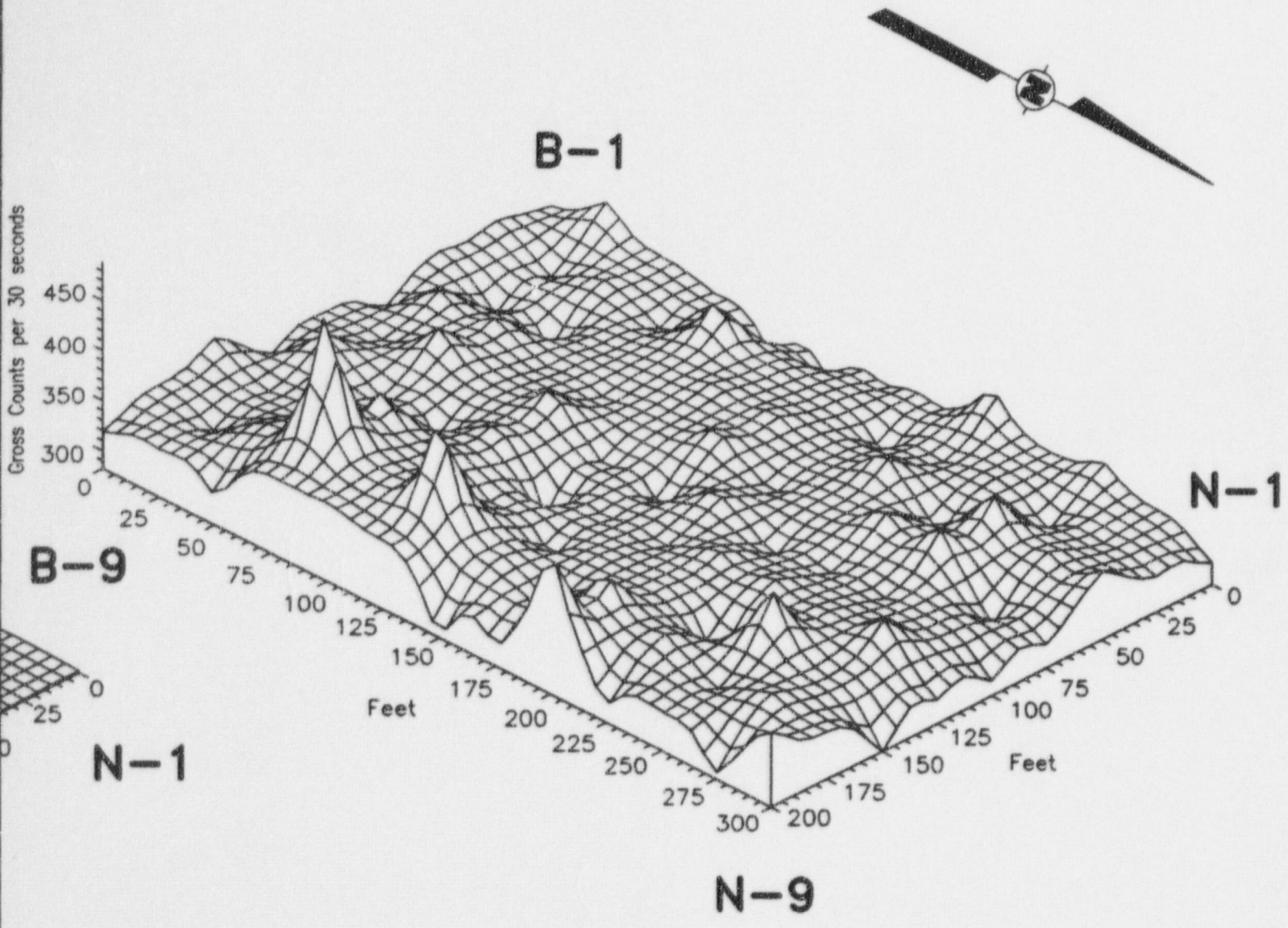


0 TO 6 INCHES

NOTE:

SEE FIGURE 13 FOR A 3-DIMENSIONAL VIEW OF THE 0 TO 6 INCH RADIOLOGICAL TEST RESULTS WITH THE SPIKE IN THE VICINITY OF SAMPLE G-8 BLANKED OUT, AND THE GROSS COUNTS PER 30 SECONDS SCALE REDUCED.

PLOT SCALE: 1=[illegible]



6 TO 12 INCHES

FIGURE 12
RADIOLOGICAL TEST RESULTS -- SOIL
FORMER ZIRCALOY BURN AREA
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA

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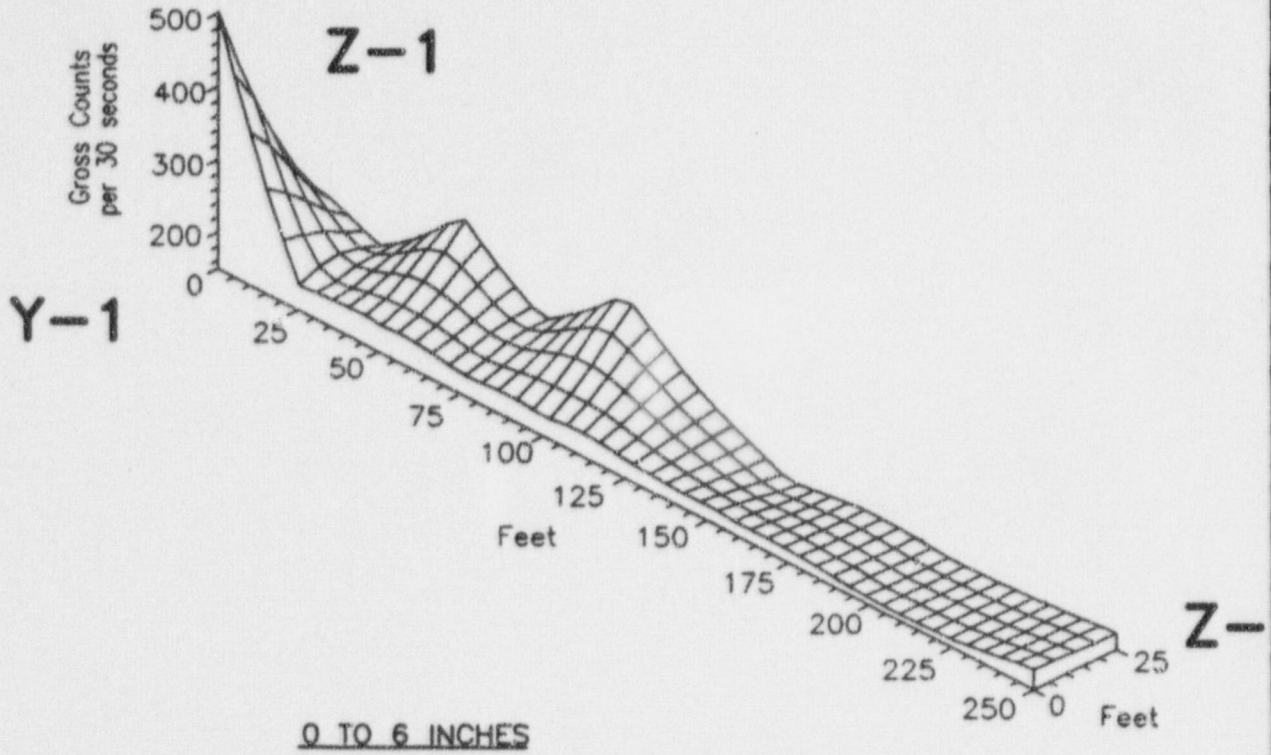
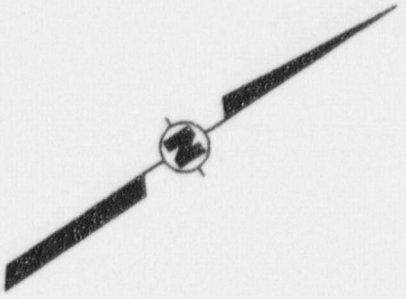
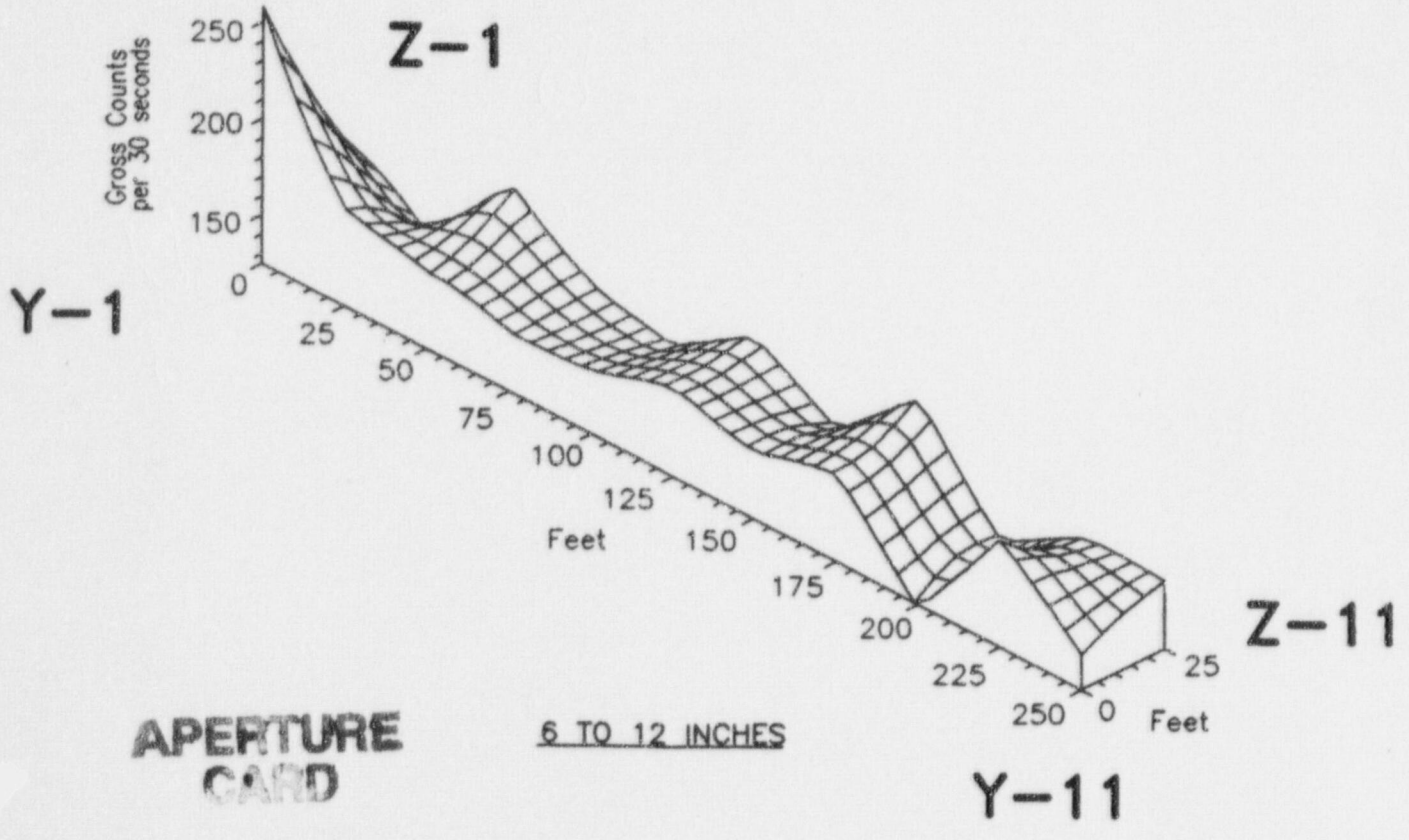


0 TO 6 INCHES

Y-11

PLOT SCALE: 1





11

6 TO 12 INCHES

FIGURE 14
RADIOLOGICAL TEST RESULTS – SOIL
SAND MOUND AREA
SPECIALITY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA

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9910130188-03

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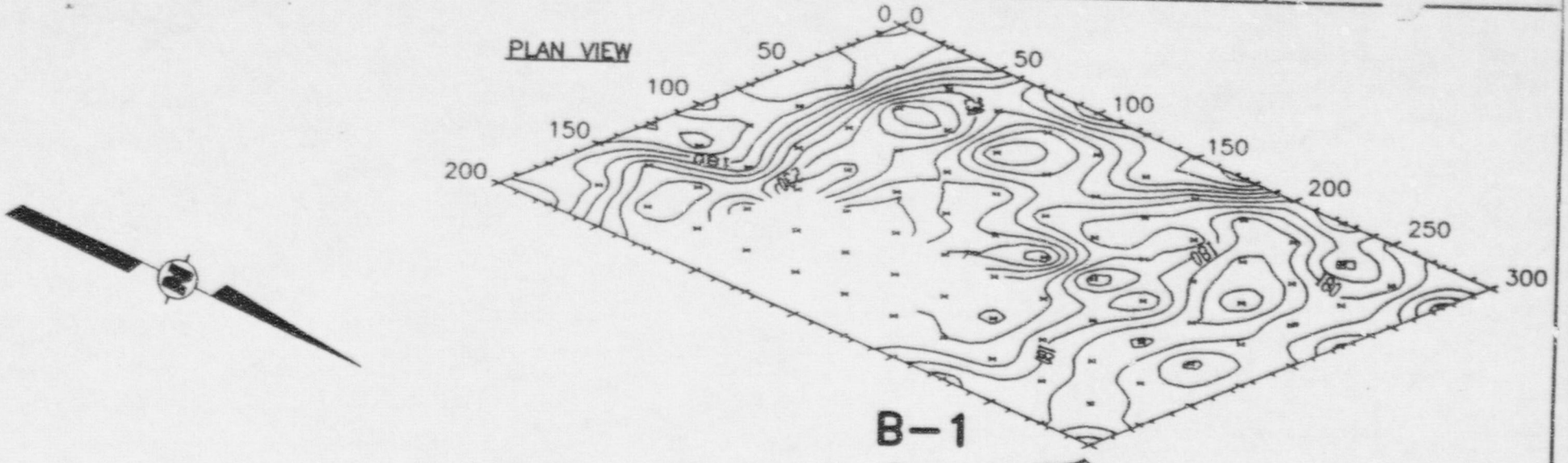
APPROVED BY: W. BAUGHMAN	DATE: 3-1-95	

DRAWING NUMBER 93123A10



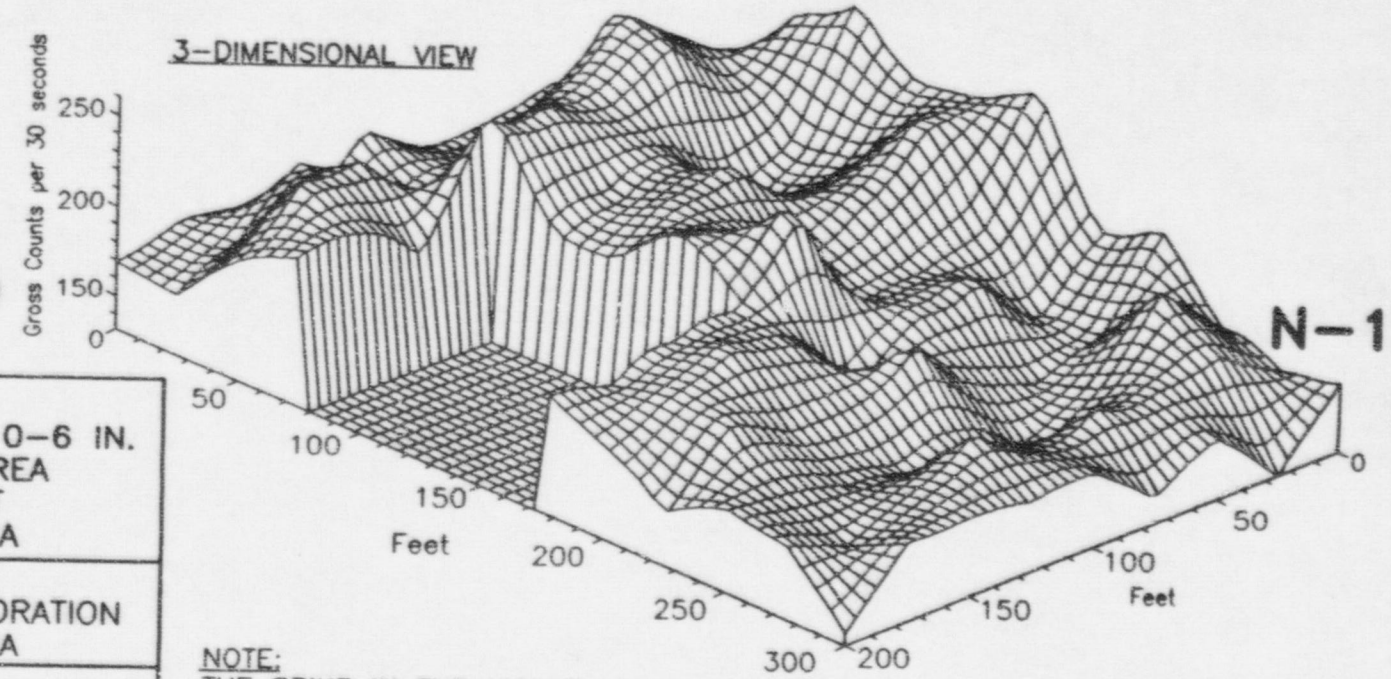


FIGURE 13
RADIOLOGICAL TEST RESULTS – 0–6 IN.
FORMER ZIRCALOY BURN AREA
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA

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93123A10

NOTE:
THE SPIKE IN THE VICINITY OF SAMPLE LOCATION G-8 HAS BEEN BLANKED OUT FOR THIS FIGURE.

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APPROVED BY: W. BAUGHMAN	DATE: 3-1-95	REVISION	DATE	DESCRIPTION

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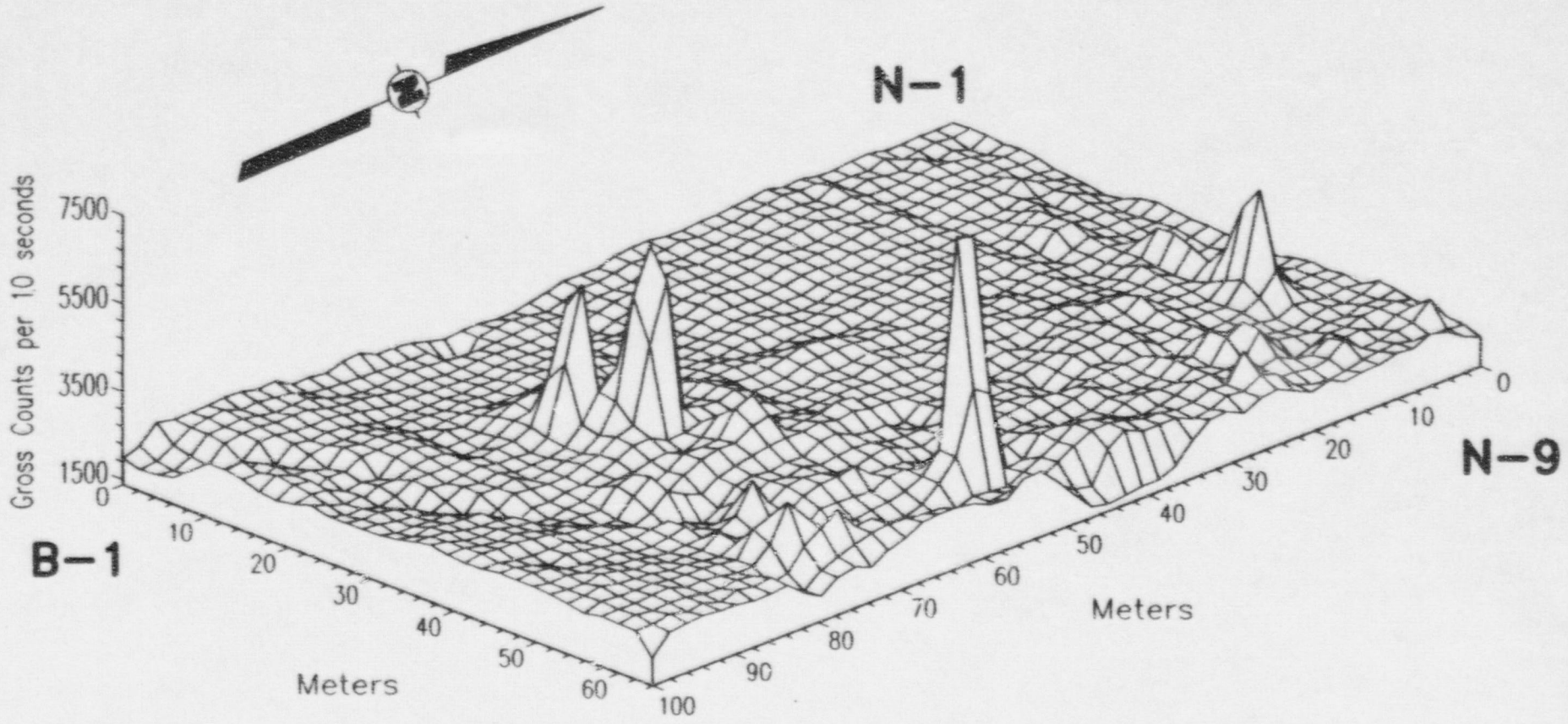

FIGURE 15
RADIOLOGICAL FIELD SCREENING RESULTS
FORMER ZIRCALOY BURN AREA
SPECIALITY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA

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APPROVED BY: W. BAUGHMAN	DATE: 3-1-95	REVISION	DATE	DESCRIPTION

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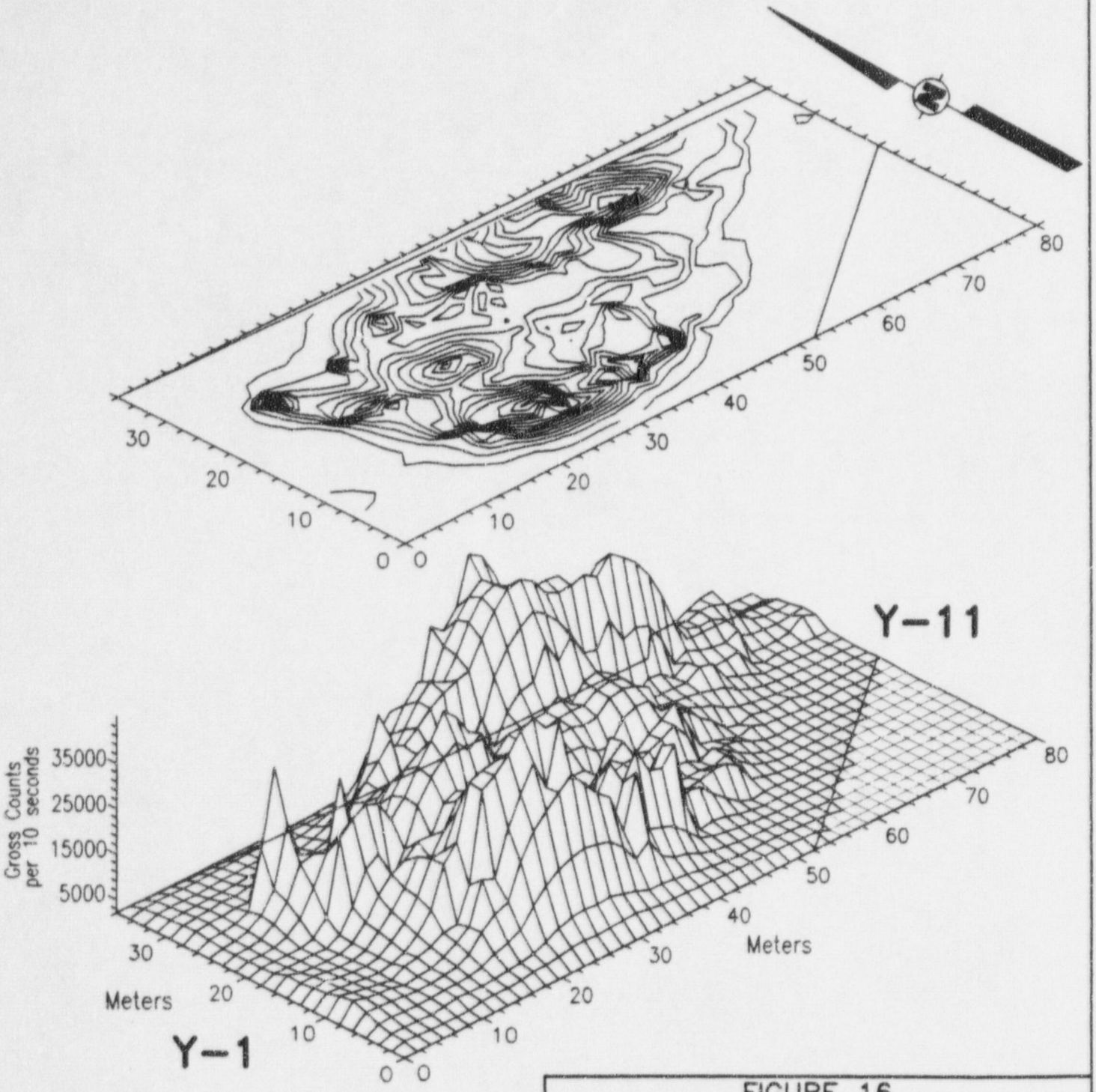

FIGURE 16
RADIOLOGICAL FIELD SCREENING RESULTS
SAND MOUND AREA
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA

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93132A11

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			CHECKED BY D. CUSICK	DATE: 4-21-95
			APPROVED BY: W. BAUGHMAN	DATE: 4-21-95

APPENDIX A

RESULTS FOR

GASOLINE UNDERGROUND STORAGE TANK

CUMMINGS RITER