NUS CORPORATION
1927 LAKESIDE PARKWAY
SUITE 614
TUCKER, GEORGIA 30084
404 938 7710

Carr

Site:
Break:
Other:

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SPA - DIVISION IV
ATLANTA, GA

October 10, 1991

Mr. A.R. Hanke
Site Investigation and Support Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Subject: Final Site Inspection Report
Dickson County Landfill
Dickson, Dickson County, Tennessee
EPA ID No. TND981467673
TDD No. F4-9012-02
Revision 0

Dear Mr. Hanke:

Enclosed please find two (2) copies of the Final Site Inspection Report, Revision 0, for Dickson County Landfill located in Dickson, Dickson County, Tennessee.

If you have any questions or comments, please contact me at HALLIBURTON NUS Environmental Corporation.

Very truly yours,

David Ceppos
Project Manager

Approved:

DC/kat

Enclosures (2)

High Priority Site
11/21/91

R-586-10-1-48

FINAL REPORT

SITE INSPECTION
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE
EPA ID NO.: TND981467673

Prepared Under
TDD No. F4-9012-02
Contract No. 68-01-7346

Revision 0

FOR THE

WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

OCTOBER 10, 1991

HALLIBURTON NUS ENVIRONMENTAL CORPORATION
SUPERFUND DIVISION

Prepared By	Reviewed By	Approved By
Dave Ceppos Project Manager		Phil Blackwell Regional Project Manager

EXECUTIVE SUMMARY

Dickson County Landfill is located on Eno Road approximately 1.5 miles southwest of Dickson, Dickson County, Tennessee. It was originally opened as the city dump in 1968, and was operated as an open dump until 1977 when the county purchased the property for a sanitary landfill. While it was operating as a dump, several local industries dumped trailer loads of drums in the dump. The drums contained solvents, paint wastes, and unknown wastes.

There are two surface water pathways at Dickson County Landfill, one to the south into Baker Branch, and one to west into an intermittent creek that empties into the Worley Furnace Branch. Both Baker Branch and Worley Furnace Branch empty into West Piney River upstream from the surface water intake for the city of Dickson Water Department. This is within the surface water 15-stream-mile pathway for both the surface water pathways at the landfill. The city of Dickson Water Department obtains water from two surface water intakes and two wells and supplies 29,213 residents.

The Dickson County Landfill is located on the rolling plateau of the western Highland rim, a section of the Interior Low Plateaus physiographic province. Groundwater occurs in this area in large amounts from the solution openings in the soluble limestone beds of the St. Louis and Warsaw limestones. Approximately 1,401 people obtain their drinking water from private wells or springs within a 4-mile radius of the facility.

During the field investigation 24 environmental samples were collected. The results of the investigation indicated both organic and inorganic contamination on-site as well as in the extended surface water pathway. The primary contaminants of concern in this investigation are pesticides within the landfill, heavy metals in the extended surface water pathway, and trichloroethylene in the private well 500 feet east of the landfill. Some of these contaminants could be attributable to the waste dumped between 1968 and 1977.

Based on the presence of high levels of pesticides within the dump, contamination of the surface water pathway and the presence of a downstream municipal surface water intake, the presence of two municipal wells with 4,000 feet of the landfill, and the presence of Trichloroethane (TCE) in the private well, FIT 4 recommends that Dickson County Landfill be evaluated using the HRS (effective March 14, 1991).

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1.0 INTRODUCTION

The HALLIBURTON NUS Environmental Corporation Region 4 Field Investigation Team (FIT) was tasked by the U.S. Environmental Protection Agency (EPA), Waste Management Division to conduct a Site Inspection (SI) at the Dickson County Landfill site in Dickson, Dickson County, Tennessee. The investigation was performed under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). The task was performed to satisfy the requirements stated in Technical Directive Document (TDD) number F4-9012-02. The field investigation was conducted the week of January 28, 1990.

1.1 OBJECTIVES

The objectives of this inspection were to determine the nature of contaminants present at the site and to determine if a release of these substances has occurred or may occur. Further, this inspection sought to determine the possible pathways by which contamination could migrate from the site and the populations and environments it would potentially affect. Through these objectives, a recommendation was made regarding future activities at the site.

1.2 SCOPE OF WORK

The objectives were achieved through the completion of a number of specific tasks. These activities were to:

- Obtain and review relevant to HRS scoring of site.
- Obtain aerial photographs and maps of site, if possible.
- Obtain information on local water systems
- Evaluate target populations associated with the groundwater, surface water, air, and onsite exposure pathways.
- Conduct a survey of private wells.

- Determine location of and distance to nearest potable well.
- Develop a site sketch.
- Conduct a geophysical screening of site to determine whether buried drums may be present.
- Conduct FASP screening to identify CLP sample locations.
- Collect environmental samples.

2.0 SITE CHARACTERIZATION

2.1 SITE HISTORY

Dickson County Landfill is located on Eno Road approximately 1.5 miles southwest of Dickson, Dickson County, Tennessee (Appendix A) (Figure 1). The old section (eastern half of the property) was originally opened in 1968 as the city dump, but the property was sold to Dickson County in 1977 to be used as a sanitary landfill. Presently, Dickson County is using the newer section (western half) of the property located on the western half of the property as a sanitary landfill (Refs. 1, 2).

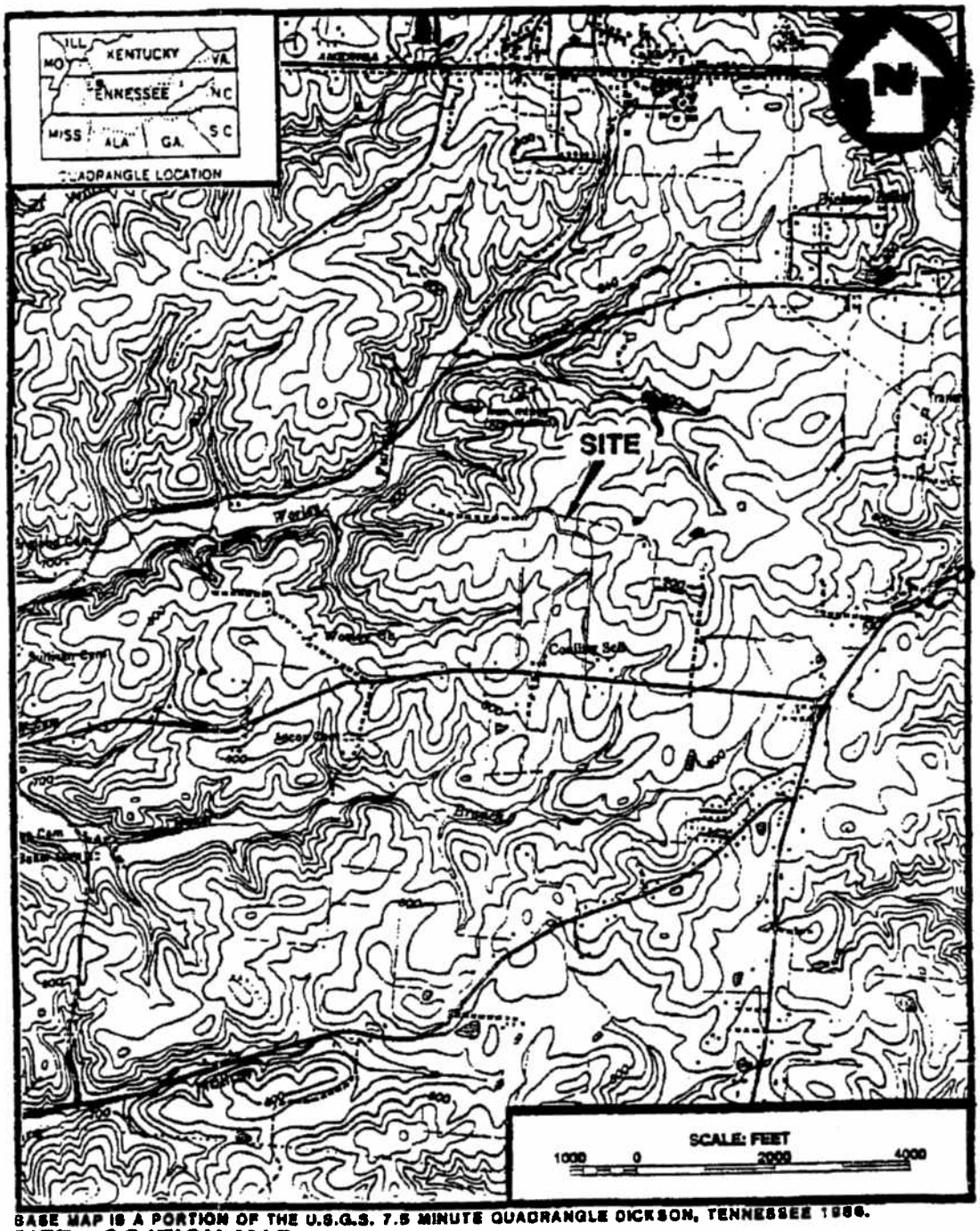
During the years the property operated as the city dump, it accepted a variety of industrial and domestic wastes. According to the superintendent of the landfill, from 1968 to 1977, Ebbtide (also known as Winner Boats) disposed of drummed wastes by the trailer load every week for a period of 3 to 4 years. The contents of the drums were suspected to be solvents used to harden fiberglass. At some time, a landfill employee attempted to open one of the drums and it exploded. Schrader Automotive Group was also thought to have dumped drums of waste solvents used to degrease automotive parts. Schrader also dumped waste at the Dickson dump from a state-enforced clean-up of their facilities in several other areas around the county (Refs. 1, 2).

After the sanitary landfill was opened in 1977, the landfill accepted only industrial waste permitted by Tennessee Solid Waste Management, and domestic waste. Some of the industrial wastes the landfill has accepted include wastes from Ebbtide's own dumps during a state-wide cleanup of that facility, Spotleak (a Mercaptan - sulfer compound mixture), excavated soil from an underground storage tank remediation, and waste from an aluminum foundry. Since it began operation as a sanitary landfill, monitoring wells have been installed and are tested every 6 months (Refs. 1, 3, 4, 5).

2.2 SITE DESCRIPTION

2.2.1 Site Features

The Dickson County Landfill occupies approximately 74 acres. The site layout is shown in Figure 2. There is a steep hill at the northern end of the property (approximately 15 feet high), that drops down to the perimeter dirt road and pond. From the north end, the property slopes gently toward the southern end. A drainage ditch was put through the middle of the old section of the landfill to control erosion of the cover soil. On the north side of the hill, at the north end of the landfill, is a



BASE MAP IS A PORTION OF THE U.S.G.S. 7.5 MINUTE QUADRANGLE DICKSON, TENNESSEE 1986.

SITE LOCATION MAP
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

FIGURE 1

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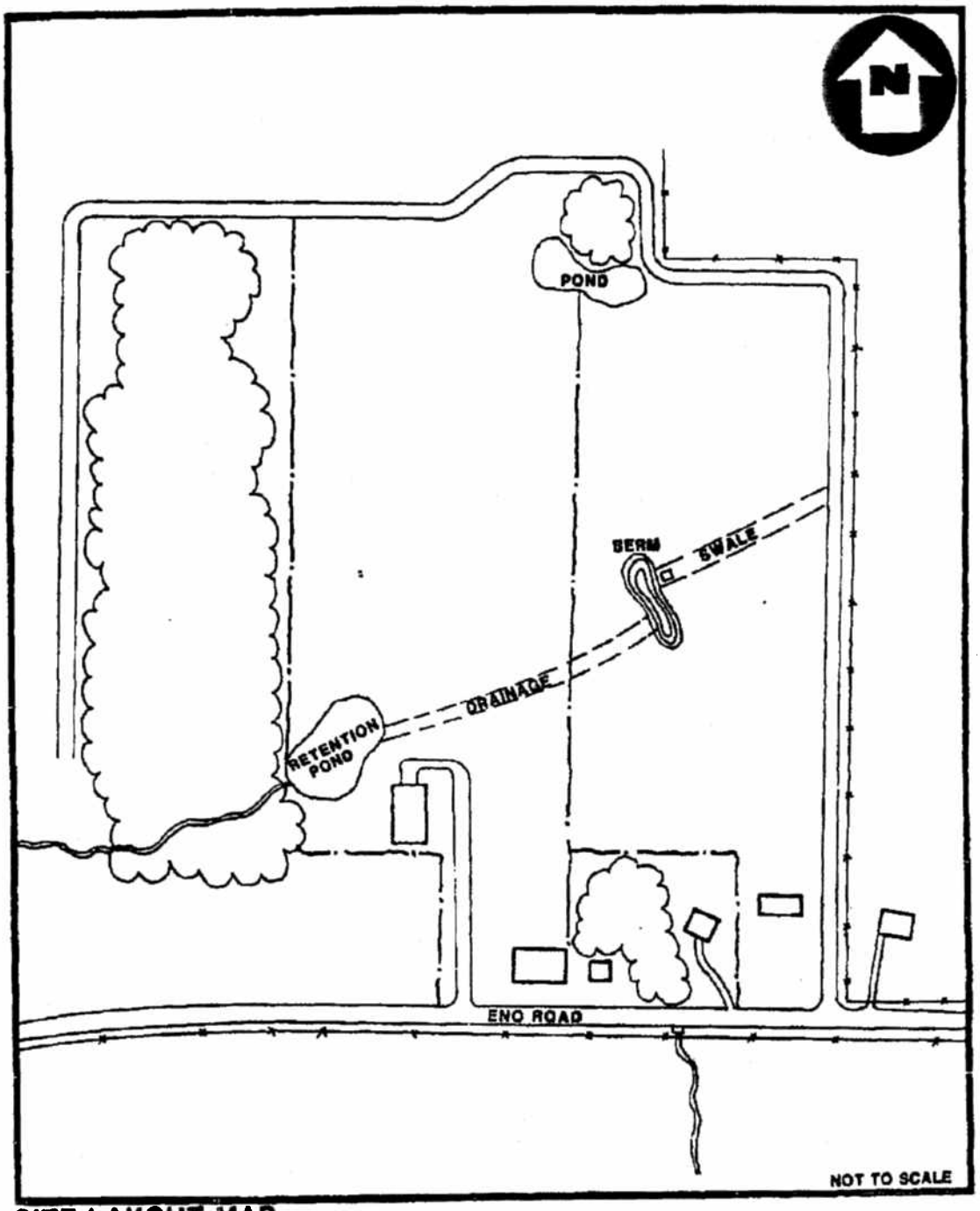

SITE LAYOUT MAP
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

FIGURE 2

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small wetland area and pond. There is another potential wetland area on the south end of the landfill. There are several buildings on the southern part of the landfill, including the humane society-animal shelter, a trailer office, and an equipment building. There is a retention pond on the western edge of the landfill, which drains into the unnamed creek west of the landfill, that feeds into Worley Furnace Creek (Ref. 1).

2.2.2 Waste Characteristics

The waste dumped by Ebbtide (Winner Boats) is known to contain acetone and paint waste, however, it could also contain other organic solvents. The waste dumped by Schrader Automotive Group was thought to be a degreaser used to clean automotive parts. Both of these companies brought trailer loads of drummed waste every week for a period of 3 to 4 years. Waste accepted by the sanitary landfill include unknown amounts of waste oil and coolants from the Tekside Aluminum Foundry. Empty containers of Spotleak (a Mercaptan-sulfur compound- mixture) were also brought to the landfill. Mercaptans (also called thiols) have a wide range of use from special purpose elastomers to agricultural chemicals (including pesticides, insecticides, acaricides, herbicides, and defoliants). An unknown amount of excavated soil contaminated with benzene, toluene, ethylbenzene, xylene, and petroleum hydrocarbons from an underground storage tank cleanup was also placed in the landfill (Refs. 3, 4, 5, 6).

3.0 REGIONAL POPULATIONS AND ENVIRONMENTS

3.1 POPULATION AND LAND USE

3.1.1 Demography

The area immediately surrounding the landfill is rural, with many small farms; however, within the 4-mile radius, large, residential areas exist. There is a school 1.8 miles northeast of the landfill (Appendix A). The total population within a 4-mile radius of the landfill is 8,072. Using a multiplier of 2.65 persons per household, there are 10 persons within 0 - 0.25 mile, 49 with 0.25 - 0.50 mile, 260 within 0.5 - 1 mile, 1,799 within 1 - 2 miles, 2,995 within 2 - 3 miles, 2,963 within 3 - 4 miles. Within the 4-mile radius is a country club, three schools, and many churches (appendix A, Ref. 1).

3.1.2 Land Use

The land in the immediate vicinity of the landfill is mainly small, rural farms. There is a community center and several churches within 1 mile of the landfill. There is a trailer park approximately 1.2 miles from the landfill (Ref. 1, Appendix A).

3.2 SURFACE WATER

3.2.1 Climatology

Dickson County is characterized by a temperate climate with a mean annual temperature of 59°F (Ref. 8, p. 2). The annual precipitation is 49 inches, with an annual lake evaporation of 37 inches (Ref. 9, pp. 43, 63). The net annual precipitation is 12 inches. The maximum 2-year, 24-hour rainfall is approximately 3 inches (Ref. 10).

3.2.2 Overland Drainage

There are three surface water pathways at the Dickson County Landfill. Most of the surface water flows into the natural swale in the middle of the landfill and travels west across the landfill into a retention pond on the western edge of the new landfill. From the retention pond, the surface water enters an unnamed, intermittent stream, travels 3,000 feet and joins the Worley Furnace Branch. It follows Worley Furnace Branch for 1.2 stream miles and enters the West Piney River (Appendix A,

Ref. 11). South of the swale, surface water flows to the southwest, where it forms a small, potential wetland area. The potential wetland drains into Baker Branch and flows 3-stream-miles before entering the West Piney River (Appendix A). Surface water from the northern end of the old landfill and part of the new landfill flow north to form a small wetland area north of the old landfill (Refs. 1, 11).

3.2.3 Potentially Affected Water Bodies

Both the unnamed intermittent creek that originates at the western edge of the landfill and Baker Branch join the West Piney River within 3-stream-miles of the landfill. The City of Dickson County Water Department has a surface water intake on West Piney River. The surface water intake is located 6-stream-miles from the point the intermittent creek leaves the western side of the landfill. The surface water intake is located 11.4-stream-miles from Baker Branch at the southern end of the landfill. The West Piney River is also used for recreational fishing (Ref. 12, Appendix A).

3.3 GROUNDWATER

3.3.1 Hydrogeology

The Dickson County Landfill is located on the rolling plateau of the western Highland Rim, a section of the Interior Low Plateaus physiographic province (Ref. 8, pp. 2, 3). The area is typified by a thin layer of residual soils and weathered rock called regolith overlying fractured sedimentary carbonate rocks. Secondary solution openings control most of the groundwater flow (Ref. 8, p. 7).

Formations beneath the landfill are, in descending order, the St. Louis Limestone, the Warsaw Limestone, the Fort Payne Formation, and the Chattanooga Shale (Ref. 8, p. 7). The St. Louis Limestone caps most of the uplands and generally consists of a residual clay soil containing blocks and nodules of chert at land surface (Ref. 8, p. 7). The regolith varies between 60 and 80 feet thick in this area (Ref. 14). This regolith has low permeability but large storage capabilities. The remaining St. Louis Limestone is a yellowish-brown, fine-grained, cherty limestone (Ref. 8, p. 7). The Warsaw Limestone is typically a light-colored, medium- to coarse-grained, fossil fragmental limestone. Together with the St. Louis Limestone, these formations are approximately 250 feet thick (Ref. 13, p. 26). The Fort Payne Formation is typically a calcareous, dolomitic, very cherty siltstone. The formation is approximately 100 feet thick in this area (Ref. 14). The Chattanooga shale is a fissle, black shale approximately 20 feet thick (Ref. 8, p. 7).

Groundwater occurs in this area in large amounts from the solution openings in the soluble limestone beds of the St. Louis and Warsaw limestones (Ref. 8, p. 7). Recharge is primarily through precipitation on the uplands (Ref. 7, p. 8). The dense, cherty Fort Payne Formation is generally an underlying confining layer but does yield water in some wells (Ref. 7, p. 8). The hydraulic conductivity for sediments similar to these is approximately 1.0×10^{-5} cm/sec (Ref. 15, p. 29).

3.3.2 Aquifer Use

The source of drinking water in the area around the Dickson County Landfill is from the solution openings in the St. Louis and Warsaw limestones (Ref. 8). Private wells in the area range from 100 to 300 feet below land surface (bls). There are approximately 1,304 people (492 houses x 2.65 people/house) that rely on either private wells or springs for their drinking water within a 4-mile radius of the landfill. The closest private well is located approximately 500 feet east of the landfill (Ref. 11, Appendix A).

The 4-mile radius around the landfill is served by four separate municipalities. The largest is the City of Dickson Water Department. The City of Dickson Water Department has two wells (one 167 feet bls, and the other is 183 feet bls) approximately 4,000 feet east of the landfill. The two wells pump an average of 200 gallons per minute, and the water is mixed with water from the two surface water intakes before dispersal (Ref. 2, Appendix A). The City of Dickson Water Department serves approximately 9,000 connections (Ref. 2). West Piney Water Department serves the area southwest of the landfill. They purchase all their water from the city of Dickson and serve approximately 300 connections (Ref. 16). Sylvia, Tennessee City, Pond (STCP) Water Utility District serves approximately 950 connections northwest of the landfill. STCP Water Utility District purchases all their water from the city of Dickson (Ref. 17). Turnbull Water Department serves 2,200 connections southeast of the landfill. They get all their water from a surface water intake on the Turnbull River in the eastern part of the county (Ref. 18).

4.0 FIELD INVESTIGATION

4.1 GEOPHYSICAL STUDY

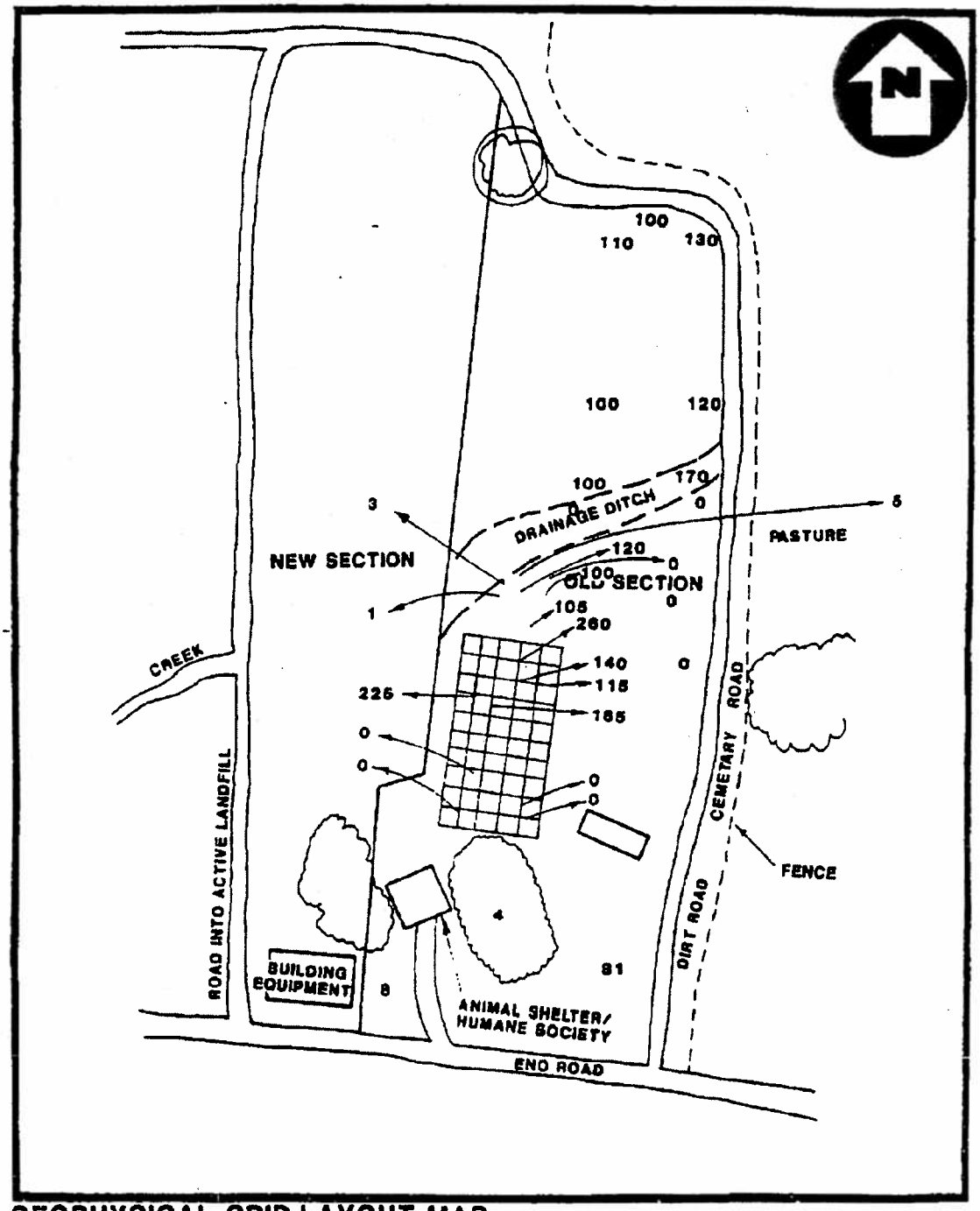
The purpose of this geophysical survey was to provide a screening technique by which sample localities for environmental sampling could be chosen by the HALLIBURTON NUS Environmental Corporation FIT 4 sampling team. In the accomplishment of this task, an area of suspected dumping on the Dickson County property was surveyed using the geophysical technique of electromagnetics. Magnetic measurements were then taken within the area to clear specific locations for subsurface drilling. Details of geophysical methods used during this screening occur in Appendix B.

4.1.1 Methodology

Two geophysical instruments were utilized in this geophysical study, a proton precession magnetometer and a non-contacting ground conductivity meter. The conductivity meter was used as the main tool for detecting buried waste. Initially, the conductivity meter was calibrated and put through a pre-operational check according to standard manufacturer's operational procedures. A base station was established immediately south of the Humane Society Animal Shelter in an area where undisturbed, local field conditions were believed to exist. The base station location was flagged with a wooden stake, and measurements were taken with the conductivity meter at this station prior to the survey. Field conditions at the base station were recorded in a field logbook (Appendix C). The background conductivity level at the base station ranged from 7 mmhos/m to 9 mmhos/m.

Virgil Bellar, the landfill manager, and Bill Griggs, a private consultant, took the geophysical team to the location of the landfill area. A cartesian coordinate grid system with geophysical stations was not originally constructed, so that the surveying process could be expedited. Instead, uncontrolled traverses were executed by taking readings along numerous lines located within the landfill boundary. Points along these lines where conductivity values showed significant increase were flagged, marking anomalously conductive areas.

After the preliminary geophysical screening had been completed, a geophysical grid was constructed across the most anomalous areas for further delineation (Figure 3). The grid measured 500 by 200 feet. The longest side of the grid (y-axis) was oriented north 7° east, and the shortest side of the grid (x-axis) was oriented east 7° south. Geophysical stations were established at 50-foot spacings on



GEOPHYSICAL GRID LAYOUT MAP
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

FIGURE 3

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the grid. Grid station (0,0) is located in the central portion of the surveyed area. Sixty other stations are located within the survey area at grid intersections. Conductivity values were recorded at each grid station on geophysical field data sheets which are attached to Appendix C.

The final step of the geophysical screening was to clear selected grid stations for subsurface drilling. This was accomplished by tuning the magnetometer at the base station in order to obtain background readings, which were then compared to magnetic values obtained on the landfill. All magnetic values were recorded in the geophysical field logbook.

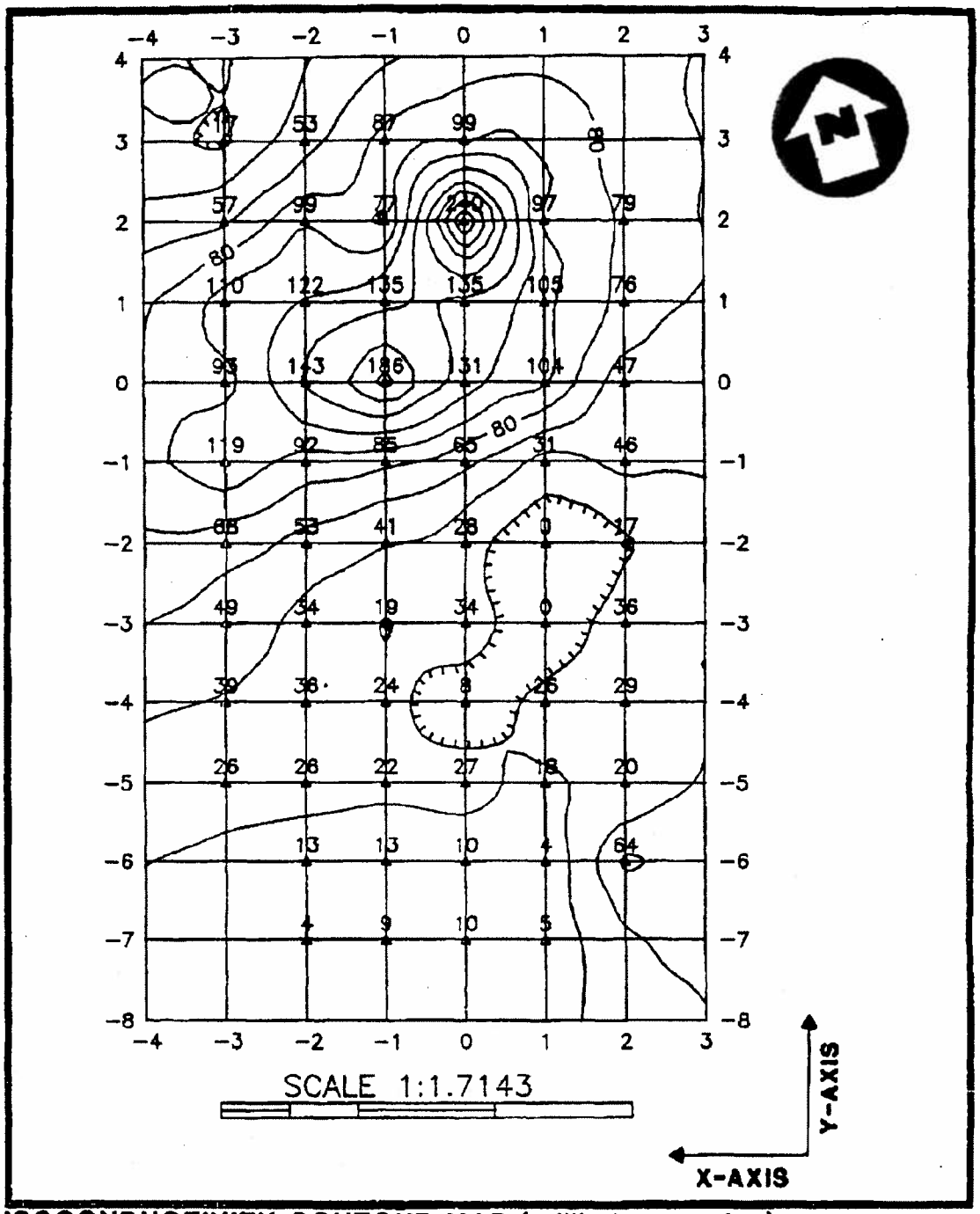
4.1.2 Geophysical Survey Results

Conductivity values recorded during the preliminary geophysical screening performed along uncontrolled traverses in the landfill area were generally between 40 and 80 mmhos/m. The highest value recorded was 260 mmhos/m, and the lowest value recorded was 0 mmhos/m. Both the high and low readings are significant relative to the 8 mmho/m average background value. Of similar significance is a 225 mmho/m reading taken immediately south of the 260 mmho/m reading. The geophysical grid for this survey was constructed around all of these anomalies.

The results of the electromagnetic conductivity survey performed at grid stations within the landfill area are presented as a computer-generated contour map which can be found in Figure 4. It represents a contoured conductivity surface of the surveyed area in units of mmhos/m. Most of the grid stations on the landfill are anomalous relative to background, with conductivity values ranging between 0 and 240 mmhos/m. There are two areas that show exceedingly anomalous conductivity values relative to other values recorded on the landfill. One of the anomalies is high (above 160 mmhos/m), and one is low (below 20 mmhos/m). The low anomaly is centered around stations (0, -4), 1, -3), and (1, -2) and is represented by hachured contour lines. The high anomaly is centered between stations (-1, 0) and (0, 2). It occurs just north of the low anomaly.

Magnetic values were recorded at all of the aforementioned grid stations that showed either excessively high or excessively low conductance The magnetic intensity at these coordinates was observed to vary between 200 and 1,000 gammas different than background. This increased magnetic gradient indicates a concentration of buried, ferrous metal. As a result, it was recommended to the sampling teams that only manually operated probes and buckets be utilized in these source areas.

The zone of higher conductivity is interpreted to be representative of buried waste (ferrous) and possibly contaminated soil or groundwater systems The zone of lower conductivity is interpreted to



ISOCONDUCTIVITY CONTOUR MAP (millimhos/meter)
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

FIGURE 4

NUS CORPORATION

represent buried cement slabs, since the same material was observed at land surface during the surveying process. Ferrous-containing, metallic reinforcements within the cement and/or nearby, ferrous-containing demolition/construction debris may possibly account for the positive magnetic response obtained in the area.

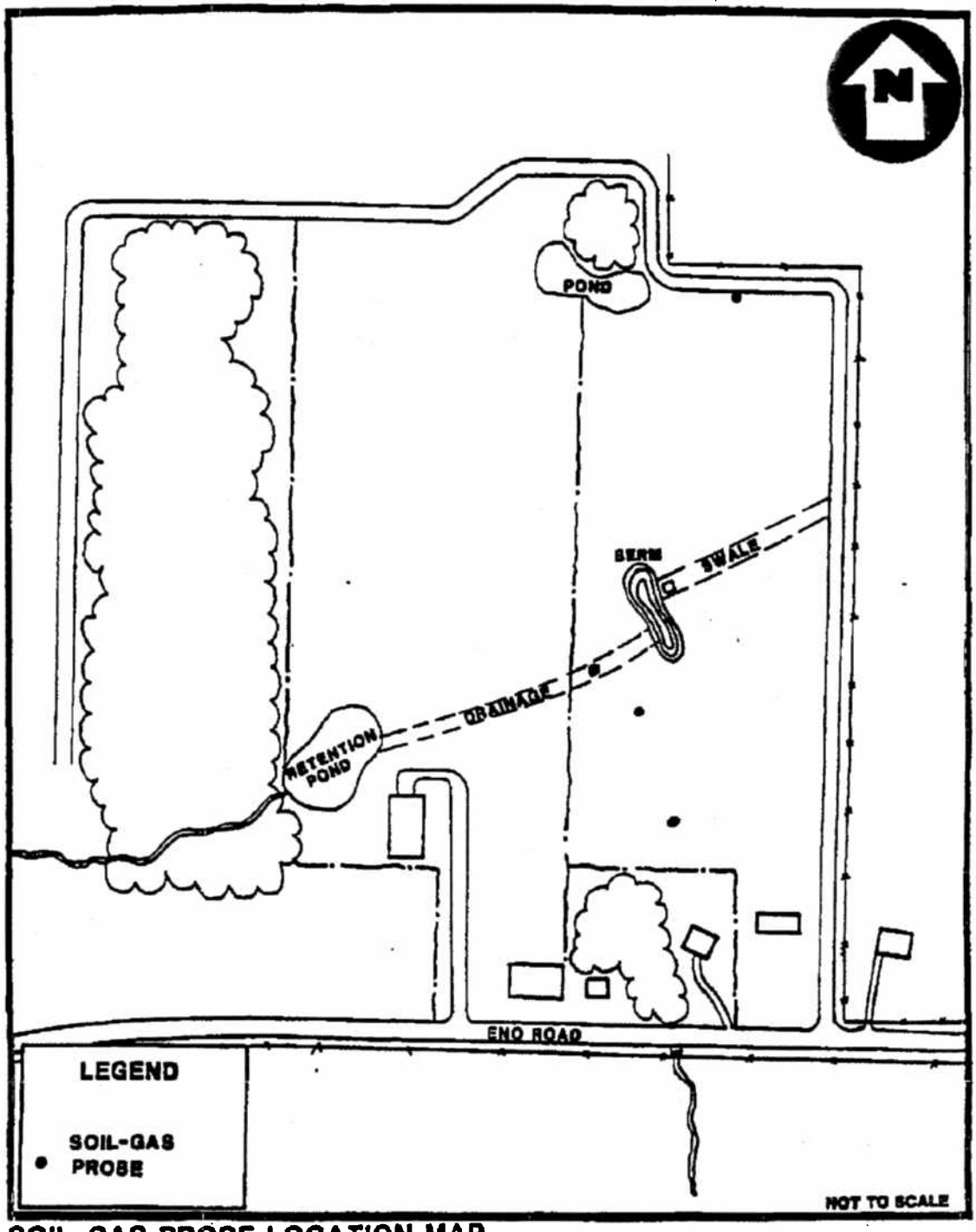
4.1.3 Geophysical Conclusions

Inorganic contaminants are known to produce an increase in free ion concentration (measured as conductivity) when introduced into underlying media. Buried waste at shallow depth is capable of producing the same electromagnetic effect. Both of these factors may have caused the conductivity "high" on the landfill. However, the direct areal correlation between the conductivity response and the magnetic intensity response suggests that the observed readings could have resulted from buried waste alone. The conductivity "low" is considered to be of lesser concern because it appears to have resulted from the burial of cement slabs. nevertheless, sample locations were chosen in the middle of both anomalies because only limited geophysical interpretations are possible with the instruments that were utilized. Therefore, the primary objective of the survey was accomplished because sample locations were selected based upon geophysical data.

4.2 FASP - FIELD ANALYTICAL SUPPORT PROJECT

A soil-gas survey was performed at Dickson County Landfill to aid in the selection of CLP sample locations. Soil-gas probes were placed near leachate outbreaks, in suspected disposal areas, and in areas screened by geophysics. A photoionization detector (HNu) was used as a direct reading instrument for measuring total volatile organic compounds (VOCs) present in the soil at the site. Also used for monitoring was the Foxboro OVA, which is sensitive to both VOCs and methane. The instruments were field checked and calibrated. A background reading was taken in the clean zone prior to use. Soil-gas probes were installed at a depth of approximately 3 feet. In some areas, water bubbled out of the hole immediately after drilling, and monitoring of soil gas was done by holding the instrument directly over the hole, rather than installing a probe. FASP recommendations are based on relative results rather than absolute values. Soil-gas monitoring identifies "clean" or "dirty" areas in the subsurface soil. This information, along with observation, file material, drainage pathway information, geophysical screening, etc. is used to select CLP sample locations. The Soil-Gas Survey Method is presented as Appendix D.

Two areas of soil-gas monitoring were done to the immediate northwest of the animal shelter (see Figure 5 for locations). All locations gave high readings on the OVA (probably methane), and a low



SOIL-GAS PROBE LOCATION MAP
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

FIGURE 5

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concentration of VOCs was detected at probe #2, in the drainage pathway. CLP samples DL-LS-01, DL-SS-02, and DL-SB-02 were collected from this area.

A second area surveyed was located at the northern edge of the landfill, in an area of leachate outbreak (Figure 5). VOCs were detected at this location, and an odor of gas was apparent. Also, high OVA readings were recorded. CLP sample DL-LS-03 was collected at this location.

A third area screened for soil gas was directly southwest of the berm at the end of the drainage ditch (Figure 5). VOCs were detected at this location, along with a strong odor of gas, and high OVA readings. CLP sample DL-LS-02 was collected here.

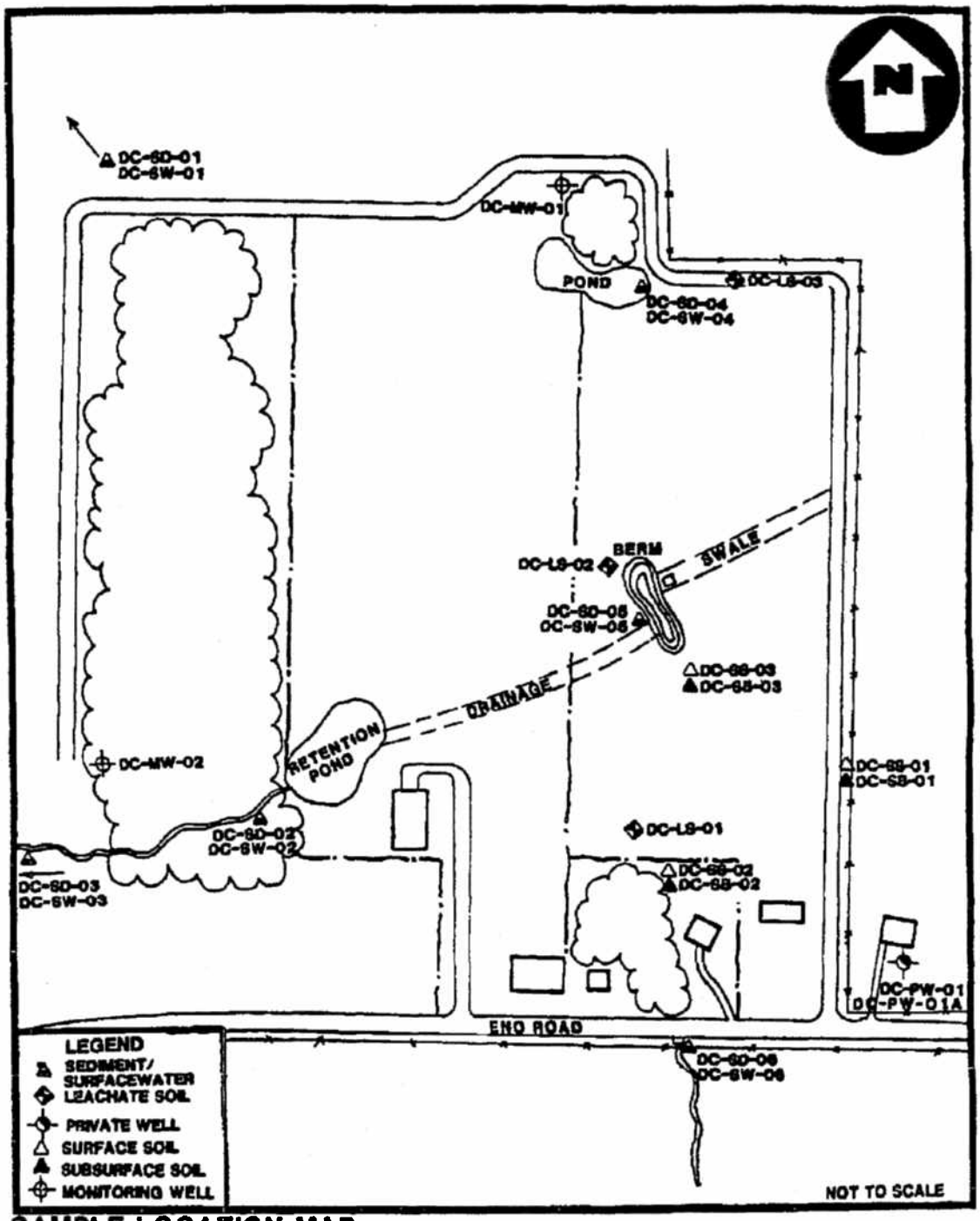
The last area of soil-gas survey was in the center of the landfill, south of the drainage ditch (Figure 4). Probe locations were chosen to coincide with the highest conductivity measurements obtained from geophysical screening. VOCs were not detected at any of these three stations. However, high OVA readings were recorded at all three probes. CLP samples DL-SS-03 and DL-SB-03 were taken in between these probes (Appendix E).

4.3 SAMPLE COLLECTION

During the field investigation, conducted January 28, 1991, FIT 4 attempted to identify and characterize contaminants which may be present in the environment as a result of activities that were conducted at Dickson County Landfill. To accomplish this, FIT 4 collected environmental surface soil, subsurface soil, surface water, sediment, leachate, and groundwater samples from a number of strategic locations. These locations were selected based on historical information, hydrogeological data for the region and site area, and direct observation at the site. Due to the detection of trichloroethylene in the private well sample, the private well was resampled on July 17, 1990 (Figure 6).

4.3.1 Sample Collection Methodology

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation were in accordance with the standard operating procedures as specified in Sections 3 and 4 of the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual; U.S. Environmental Protection Agency, Region IV, Environmental Services Division, April 1, 1986.



SAMPLE LOCATION MAP
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

FIGURE 6

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4.3.2 Duplicate Samples

Duplicate samples were offered to and declined by Bill Griggs, a designated representative of Dickson County Landfill. Receipt for sample forms are on file at FIT 4.

4.3.3 Description of Samples and Sample Locations

During the sampling investigation, a total of 24 environmental samples were collected. Background surface soil and subsurface soil samples were collected just off the eastern boundary of the landfill. A monitoring well at the northern edge of the landfill served as the groundwater background. Background surface water and sediment samples were collected upstream of the landfill in Worley Branch Creek. Leachate samples were compared to sediment DC-SD-01 as a background. Two surface soil and two subsurface soil samples were collected inside the landfill boundaries. Two surface water and two sediment samples were collected downstream in Worley Furnace Creek. Three other surface water and three sediment samples were collected in a wetland area at the north of the landfill, in a drainage ditch in the interior of the landfill, and in a creek south of the landfill. Three leachate samples were taken directly from leachate outbreaks. Two groundwater samples were collected, one from a monitoring well and one from a nearby private well. All sample locations are shown in Figure 6. Sample codes, descriptions, locations, and rationale are contained in Table 1.

4.3.4 Field Measurements

Field measurements were performed on all water samples (Table 2). Parameters measured included temperature, pH, and conductivity of the sample at time of collection. No field measurements were performed on the soil samples during this investigation.

4.4 SAMPLE ANALYSIS

4.4.1 Analytical Support and Methodology

All samples collected were analyzed under the Contract Laboratory Program (CLP) and analyzed for all organic and inorganic parameters listed in the Target Compound List (TCL). Organic analysis of soil and water samples was performed by Compuchem Labs of Research Triangle Park, North Carolina. Inorganic analysis of soil and water samples was performed by Southwest Labs of Oklahoma of Broken Arrow, Oklahoma.

TABLE 1

SAMPLE CODES, LOCATIONS, AND RATIONALE
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

Sample Code	Description	Location	Rationale	Depth (feet)
DC-SS-01	Surface Soil	Sample located east of the old dump on the east side of the dirt road that runs around the perimeter of the landfill property.	To determine background conditions for surface soil samples at the landfill	NA
DC-SS-02	Surface Soil	Sample located just north of the small, wooded area in the southwest corner of the old dump.	To determine presence or absence of contaminants	NA
DC-SS-03	Surface Soil	Sample located just south of the swale running through the middle of the old dump.	To determine presence or absence of contaminants	NA
DC-SB-01	Subsurface Soil	Sample located east of the old dump on the east side of the dirt road that runs around the perimeter of the landfill property.	To determine background conditions for subsurface soil samples at the landfill	4
DC-SB-02	Subsurface Soil	Sample located just north of the small, wooded area in the southwest corner of the old dump.	To determine presence or absence of contaminants	3
DC-SB-03	Subsurface Soil	Sample located just south of the swale running through the middle of the old dump.	To determine presence or absence of contaminants	4
DC-LS-01	Leachate	Sample located just northeast of the wooded area in the southwest corner of the old dump.	To determine presence or absence of contaminants	NA
DC-LS-02	Leachate	Sample located northwest of the berm that is located in the swale running through the old dump.	To determine presence or absence of contaminants	NA
DC-LS-03	Leachate	Sample located at the base of the hill at the northern end of the old dump.	To determine presence or absence of contaminants	NA

DC - Dickson County Landfill
SS - Surface Soil
SB - Subsurface Soil
LS - Leachate
SW - Surface Water
SD - Sediment
MW - Groundwater, Monitoring Well
PW - Groundwater, Private Well

TABLE 1

SAMPLE CODES, LOCATIONS, AND RATIONALE
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

Sample Code	Description	Location	Rationale	Depth (feet)
DC-SW-01	Surface Water	Sample collected in Worley Furnace Branch upstream of its convergence with the intermittent creek at the west edge of the landfill.	To determine the background conditions for surface water for the landfill	NA
DC-SW-02	Surface Water	Sample collected at the beginning of the intermittent creek at the west side of the landfill.	To determine the presence or absence of contaminants	NA
DC-SW-03	Surface Water	Sample collected just downstream of the convergence of Worley Furnace Branch and the intermittent stream from the west side of the landfill.	To determine the presence or absence of contaminants	NA
DC-SW-04	Surface Water	Sample collected from the pond at the north end of the landfill and old dump.	To determine the presence or absence of contaminants	NA
DC-SW-05	Surface Water	Sample collected just west of the berm in the swale running through the middle of the landfill.	To determine the presence or absence of contaminants	NA
DC-SW-06	Surface Water	Sample collected south of the old dump just south of Eno Road.	To determine the presence or absence of contaminants	NA
DC-SD-01	Sediment	Sample collected in Worley Furnace Branch upstream of its convergence with the intermittent creek at the west side of the landfill.	To determine the background conditions for sediment samples for the landfill	NA
DC-SD-02	Sediment	Sample collected at the beginning of the intermittent creek at the west side of the landfill.	To determine the presence or absence of contaminants	NA

DC - Dickson County Landfill
SS - Surface Soil
SB - Subsurface Soil
LS - Leachate
SW - Surface Water
SD - Sediment
MW - Groundwater, Monitoring Well
PW - Groundwater, Private Well

TABLE 1

SAMPLE CODES, LOCATIONS, AND RATIONALE
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

Sample Code	Description	Location	Rationale	Depth (feet)
DC-SD-03	Sediment	Sample collected just downstream of the convergence of Worley Furnace Branchw ith the intermittent creek at the west side of the landfill.	To determine the presence or absence of contaminants	NA
DC-SD-04	Sediment	Sample collected from the pond at the north end of the landfill and dump.	To determine the presence or absence of contaminants	NA
DC-SD-05	Sediment	Sample collected just west of the berm in the swale running through the middle of the landfill.	To determine the presence or absence of contaminants	NA
DC-SD-06	Sediment	Sample collected south of the old dump just south of Eno Road	To determine the presence or absence of contaminants	NA
DC-MW-01	Groundwater	Sample from monitoring well located in the northeast corner of the landfill just north of the pond.	To determine background conditions for groundwater at the landfill	86
DC-MW-02	Groundwater	Sample from monitoring well located in the southwest end of the wooded area west of the landfill.	To determine the presence or absence of contaminants	68
DC-PW-01	Groundwater	Sample from private well located approximately 500 feet east of the old dump.	To determine the presence or absence of contaminants	NA
DC-PW-01A	Groundwater	Resample of DC-PW-01. Taken 7-17-91.	To confirm presence of trichloroethylene	NA

DC - Dickson County Landfill
SS - Surface Soil
SB - Subsurface Soil
LS - Leachate
SW - Surface Water
SD - Sediment
MW - Groundwater, Monitoring Well
PW - Groundwater, Private Well

TABLE 2

FIELD MEASUREMENTS
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

Sample Code	pH	Temp. (°F)	Conductivity (umhos/cm)
DC-SW-01	7.66	49	123.2
DC-SW-02	6.73	59	57.7
DC-SW-03	7.81	58	150.3
DC-SW-04	6.41	58	156.0
DC-SW-05	7.54	56	50.8
DC-SW-06	7.45	56	37.9
DC-MW-01	8.01	58	31.5
DC-MW-02	6.62	58	118.6
DC-PW-01	7.36	58	30.7
DC-PW-01A	7.20	69	277

All laboratory analyses and laboratory quality assurance procedures used during this investigation were in accordance with standard procedures and protocols as specified in the Laboratory Operations and Quality Control Manual, U.S. Environmental Protection Agency (EPA), Region IV, Environmental Services Division, issued October 24, 1990; or as specified by the existing EPA standard procedures and protocols for the CLP Statement of Work, as applicable.

4.4.2 Analytical Data Quality and Data Qualifiers

All analytical data were subjected to a quality assurance review as described in the EPA Environmental Services Division laboratory data evaluation guidelines. In the tables, some of the concentrations of the organic and inorganic parameters have been flagged with a "J". This indicates that the qualitative analysis was acceptable, but the quantitative value has been estimated. A few other compounds are flagged with an "N", indicating that they were detected based on the presumptive evidence of their presence. This means that the compound was tentatively identified, and its detection cannot be used as positive identification of its presence. Results for some background samples are reported with a "U" flag. This flag means that the material was analyzed for but not detected. The reported number is the laboratory-derived minimum quantitation limit (MQL) for the compound or element in that sample. At times, miscellaneous organic compounds that do not appear on the target compound list are reported with a data set. These compounds are labeled as "JN", indicating that they are tentatively identified at estimated quantities. Because these compounds are not routinely analyzed for or reported, background levels or MQL values are not generally available for comparison. The complete analytical data sheets are presented in Appendix F. The preservative trip blank, DC-PB-01, contained 19 ug/l estimated amount of lead.

4.4.3 Presentation of Analytical Results

This section presents a discussion and interpretation of the analytical results from the environmental samples collected during the investigation at Dickson County Landfill. Results of surface soil, subsurface soil, surface water, sediment, leachate, and groundwater samples are presented in Tables 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14. Background samples have been designated for all media. Values for background sample results are presented as either a measured value or as the MQL. Samples containing concentrations of contaminants greater than 3 times the background level or MQL of these contaminants are considered to be elevated. These samples are noted in the text.

TABLE 3

SUMMARY OF ORGANIC ANALYTICAL RESULTS
SURFACE SOIL SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (ug/kg)	Trip Blank Soil	Background	On Site	
	DC-TB-01S	DC-SS-01	DC-SS-02	DC-SS-03
EXTRACTABLE COMPOUNDS				
DIMETHYL PHTHALATE	-	430U	67J	-
PHENANTHRENE	-	430U	57J	-
FLUORANTHENE	-	430U	85J	-
PYRENE	-	430U	68J	-
BENZO(A)ANTHRACENE	-	430U	42J	-
UNIDENTIFIED COMPOUNDS/NO (1)		3000J/2	900J/1	10,000J/10
PESTICIDE\PCB COMPOUNDS				
BETA-BHC	-	1.6J	-	-
4,4'-DDE (P,P'-DDE)	-	4.3U	-	110J
4,4'-DDD (P,P'-DDD)	-	4.3U	-	22J
4,4'-DDT (P,P'-DDT)	-	4.3U	-	230J
GAMMA-CHLORDANE/2	-	2.2U	0.60J	-
ALPHA-CHLORDANE/2	-	2.2U	0.37J	-

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.
U Material was analyzed for but not detected. The number given is the MQL.
(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 4

SUMMARY OF INORGANIC ANALYTICAL RESULTS
SURFACE SOIL SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (mg/kg)	Background	On Site	
	DC-SS-01	DC-SS-02	DC-SS-03
ALUMINUM	13,000J	17,000J	10,000J
ARSENIC	6.3J	3.8J	4.1J
BARIUM	58	53	86
CALCIUM	210	1400	4200
CHROMIUM	43J	37J	31J
COBALT	13	-	-
COPPER	26	21	130
IRON	20,000	29,000	27,000
LEAD	24J	20J	42J
MAGNESIUM	790	980	610
MANGANESE	520	160	290
NICKEL	8.3	8.7	8.5
POTASSIUM	560	620	420
VANADIUM	39	46	38
ZINC	32	46	110

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.

TABLE 5

SUMMARY OF ORGANIC ANALYTICAL RESULTS
SUBSURFACE SOIL SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (ug/kg)	Background	On Site	
	DC-SB-01	DC-SB-02	DC-SB-03
EXTRACTABLE COMPOUNDS			
NAPHTHALENE	400U	410U	200J
UNIDENTIFIED COMPOUNDS/NO.(1)	800J/1		4000J/2
PETROLEUM PRODUCT(1)			N
PESTICIDE\PCB COMPOUNDS			
ALDRIN	2.0U	-	2.8
GAMMA-CHLORDANE/2	2.0U	-	70
ALPHA-CHLORDANE/2	2.0U	-	96

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.
N Presumptive evidence of presence of material.
U Material was analyzed for but not detected. The number given is the MQL.
(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 6

SUMMARY OF INORGANIC ANALYTICAL RESULTS
SUBSURFACE SOIL SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS(mg/kg)	Background	On Site	
	DC-SB-01	DC-SB-02	DC-SB-03
ALUMINUM	13,000J	13,000J	2400J
ARSENIC	3.7J	4.5J	-
BARIUM	35	40	70
CADMIUM	1.5	1.4	-
CALCIUM	88	530	1900
CHROMIUM	63J	64J	3.5J
COPPER	16	18	14
IRON	40,000	41,000	7400
LEAD	14J	10J	6.5J
MAGNESIUM	420	470	670
MANGANESE	67	120	91
NICKEL	11	14	-
POTASSIUM	350	570	180
VANADIUM	49	57	-
ZINC	35	84	140

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.

TABLE 7

SUMMARY OF ORGANIC ANALYTICAL RESULTS
SURFACE WATER SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

	Background	Downstream Worley Furnace Creek		Wetland Area	Drainage Ditch	Creek South of Landfill
PARAMETERS (ug/l)	DC-SW-01	DC-SW-02	DC-SW-03	DC-SW-04	DC-SW-05	DC-SW-06
PURGEABLE COMPOUNDS						
METHYL ETHYL KETONE	10U	45	-	-	-	-
METHYL ISOBUTYL KETONE	10U	1J	-	-	-	-
TOLUENE	10U	2J	-	-	-	-
TOTAL XYLENES	10U	1J	-	-	-	-
EXTRACTABLE COMPOUNDS						
2-METHYLPHENOL	10UJ	1J	-	-	-	-
DIMETHYLPROPANEDIOL(1)		30JN				
CYCLOHEXANECARBOXYLIC ACID(1)		5JN				
DIETHYLMETHYLBENZAMIDE(1)		6JN			4JN	
BENZOTHIAZOLONE(1)					4JN	
UNDENTIFIED COMPOUNDS/NO.(1)						
PESTICIDE\PCB COMPOUNDS						
GAMMA-BHC (LINDANE)	0 050U	0 026J	-	-	-	-

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.
N Presumptive evidence of presence of material.
U Material was analyzed for but not detected. The number given is the MQL.
(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 8

SUMMARY OF INORGANIC ANALYTICAL RESULTS
SURFACE WATER SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

	Background	Downstream Worley Furnace Creek		Wetland Area	Drainage Ditch	Creek South of Landfill
PARAMETERS (ug/l)	DC-SW-01	DC-SW-02	DC-SW-03	DC-SW-04	DC-SW-05	DC-SW-06
ALUMINUM	84	570	63	2000	-	84
BARIUM	17	130	16	63	70	93
CALCIUM	22,000	48,000	23,000	9700	35,000	69,000
IRON	40U	10,000	-	11,000	530	-
LEAD	5UJ	5J	-	7J	6J	-
MAGNESIUM	2100	16,000	2700	3100	12,000	11,000
MANGANESE	5U	3200	-	1800	460	17
POTASSIUM	640U	14,000	-	1500	15,000	4900
SODIUM	1600U	56,000	-	-	62,000	12,000
VANADIUM	2U	-	-	6	-	-
ZINC	3UJ	-	-	26J	-	-
CYANIDE	12U	-	-	-	20	-

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.
U Material was analyzed for but not detected. The number given is the MQL.

TABLE 9

SUMMARY OF ORGANIC ANALYTICAL RESULTS
SEDIMENT SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (ug/kg)	Background	Downstream Worley Furnace Creek		Wetland Area	Drainage Ditch	Creek South of Landfill
	DC-SD-01	DC-SD-02	DC-SD-03	DC-SD-04	DC-SD-05	DC-SD-06
PURGEABLE COMPOUNDS						
CHLOROFORM	15U	-	-	-	-	5B
EXTRACTABLE COMPOUNDS						
PHENANTHRENE	500U	-	-	-	-	310J
ANTHRACENE	500U	-	-	-	-	51J
FLUORANTHENE	500U	60J	-	-	-	410J
PYRENE	500U	69J	-	-	-	270J
BENZYL BUTYL PHTHALATE	500U	-	-	-	-	56D
BENZO(A)ANTHRACENE	500U	-	-	-	-	190J
CHRYSENE	500U	-	-	-	-	170J
TRIBROMOPHENOL (NOT 2,4,6-)(1)						200JN
UNIDENTIFIED COMPOUNDS/NO (1)	6000J/3	5000J/4	900J/1	2000J/1	4000J/1	7000J/8
PETROLEUM PRODUCT(1)						N
PESTICIDE\PCB COMPOUNDS						
GAMMA-BHC (LINDANE)	2.5U	0.42J	-	-	-	-
ALDRIN	2.5U	-	-	-	-	0.37J

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.
N Presumptive evidence of presence of material.
U Material was analyzed for but not detected. The number given is the MQL.
(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 9

SUMMARY OF ORGANIC ANALYTICAL RESULTS
SEDIMENT SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

	Background	Downstream Worley Furnace Creek		Wetland Area	Drainage Ditch	Creek South of Landfill
PARAMETERS (ug/kg)	DC-SD-01	DC-SD-02	DC-SD-03	DC-SD-04	DC-SD-05	DC-SD-06
4,4'-DDE (P,P'-DDE)	4.9U	-	-	-	-	-
4,4'-DDD (P,P'-DDD)	4.9U	-	-	-	-	-
GAMMA-CHLORDANE/2	2.5U	1.0J	-	-	-	3.1
ALPHA-CHLORDANE/2	2.5U	0.28J	-	-	-	-

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value
N Presumptive evidence of presence of material
U Material was analyzed for but not detected. The number given is the MQL.
TI Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 10

SUMMARY OF INORGANIC ANALYTICAL RESULTS
SEDIMENT SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

	Background	Downstream Worley Furnace Creek		Wetland Area	Drainage Ditch	Creek South of Landfill
PARAMETERS (mg/kg)	DC-SD-01	DC-SD-02	DC-SD-03	DC-SD-04	DC-SD-05	DC-SD-06
ALUMINUM	4500J	18,000J	2500J	8500J	8300J	3700J
ARSENIC	4.4J	5.6J	2.8J	5.2J	-	3.5J
BARIUM	58	60	25	66	25	17
CADMIUM	1	-	-	-	-	-
CALCIUM	1600	1600	1500	1400	500	38,000
CHROMIUM	38J	37J	31J	26J	29J	33J
COBALT	20U	-	29	-	-	-
COPPER	17	25	13	19	15	22
IRON	19,000	26,000	14,000	22,000	25,000	18,000
LEAD	12J	15J	7.3J	20J	8.6J	27J
MAGNESIUM	250	1200	110	710	350	7100
MANGANESE	830	200	880	460	100	140
NICKEL	13	13	30	6.5	-	6.2
POTASSIUM	230	840	170	300	300	330
VANADIUM	25	52	19	29	34	23
ZINC	56	53	52	43	18	40

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Esimated value.
U Material was analyzed for but not detected. The number given is the MQL.

TABLE 11

SUMMARY OF ORGANIC ANALYTICAL RESULTS
LEACHATE SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (ug/kg)	Background	Leachate Samples		
	DC-SD-01	DC-LS-01	DC-LS-02	DC-LS-03
PURGEABLE COMPOUNDS				
TOTAL XYLENES	-	-	14	-
EXTRACTABLE COMPOUNDS				
DIMETHYL PHTHALATE	500U	77J	-	-
DI-N-BUTYLPHTHALATE	500U	81J	-	-
HEXADECANOIC ACID(1)		200JN		
UNIDENTIFIED COMPOUNDS/NO.(1)	6000J/3	5000J/3	800J/1	
PESTICIDE/PCB COMPOUNDS				
4,4'-DDE (P,P'-DDE)	4.9U	2.4J	-	-
4,4'-DDD (P,P'-DDD)	4.9U	14	-	-
4,4'-DDT (P,P'-DDT)	-	-	-	-
GAMMA-CHLORDANE/2	2.5U	5.4	0.30J	-
ALPHA-CHLORDANE/2	2.5U	2.0J	-	-

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.
N Presumptive evidence of presence of material.
U Material was analyzed for but not detected. The number given is the MQL.
(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 12

SUMMARY OF INORGANIC ANALYTICAL RESULTS
LEACHATE SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (mg/kg)	Background	Leachate Samples		
	DC-SD-01	DC-LS-01	DC-LS-02	DC-LS-03
ALUMINUM	4500J	9300J	15,000J	13,000
ARSENIC	4.4J	5.3J	3.6J	4.4J
BARIUM	58	53	31	32
CADMIUM	1	-	-	-
CALCIUM	1600	4500	1000	380
CHROMIUM	38J	37J	31J	31J
COPPER	17	40	29	17
IRON	19,000	27,000	28,000	25,000
LEAD	12J	49J	12J	11J
MAGNESIUM	250	720	780	530
MANGANESE	830	320	47	95
NICKEL	13	9.5	6	6.8
POTASSIUM	230	430	1000	520
VANADIUM	25	43	43	41
ZINC	56	180	34	27

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.

TABLE 13

SUMMARY OF ORGANIC ANALYTICAL RESULTS
GROUNDWATER SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (ug/l)	Water Trip Blank	Background	Monitoring Well	Private Well	
	DC-TB-01W	DC-MW-01	DC-MW-02	DC-PW-01	DC-PW-01A
PURGEABLE COMPOUNDS					
CARBON DISULFIDE	-	69	-	-	-
1,2-DICHLOROETHENE (TOTAL)	-	10U	-	13	1J
TRICHLOROETHENE(TRICHLOROETHYLENE)	-	10U	-	26	3.9J
ACETALDEHYDE[1]					7JN
EXTRACTABLE COMPOUNDS					
AMINOHEXANOIC ACID[1]		500JN	20JN		
BUTYLIDENEBIS(DIMETHYLETHYL)METHYLPHENOL[1]		10JN			
UNIDENTIFIED COMPOUNDS/NO [1]		40J/2			

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.
N Presumptive evidence of presence of material.
U Material was analyzed for but not detected. The number given is the MQL.
(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 14

SUMMARY OF INORGANIC ANALYTICAL RESULTS
GROUNDWATER SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS	Preservative Blank	Background	Onsite Well	Private Well	
(ug/l)	DC-PB-01	DC-MW-01	DC-MW-02	DC-PW-01	DC-PW-01A
ALUMINUM	-	900	7600	-	58
BARIUM	-	20	89	-	8.0
CALCIUM	-	51,000	35,000	43,000	46
CHROMIUM	-	11	13	-	-
COPPER	-	4U	12	11	23
IRON	-	1600	8800	-	0 017
LEAD	19J	8J	18J	11J	-
MAGNESIUM	-	4500	1600	5000	4 9
MANGANESE	-	130	2100	-	-
NICKEL	-	9U	29	-	-
POTASSIUM	-	2000	870	-	-
STRONTIUM	-	-	-	-	82
TITANIUM	-	-	-	-	5 4
VANADIUM	-	5U	15	-	-
ZINC	-	120J	87J	230J	250

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.
U Material was analyzed for but not detected The number given is the MQL

4.4.3.1 Summary of Organic Analytical Results

Elevated levels of several pesticides were detected in sample DC-SS-03, taken from the middle portion of the landfill. These included DDE (26 times MQL, estimated), DDD (5 times MQL, estimated), and DDT (53 times MQL, estimated). Unidentified extractables were found in all the surface soil samples (Table 3).

Pesticides were also detected in the subsurface sample DC-SB-03: gamma-chlordane/2 (35 times MQL) and alpha-chlordane/2 (48 times MQL). Also found in this sample were unidentified extractables and evidence of petroleum product. No other elevated organics were found in subsurface soil samples (Table 5).

Methyl ethyl ketone was detected in sample DC-SW-02 at 4.5 times MQL. Three miscellaneous and one unidentified compound were also found in this sample, which was taken near the retention pond in the landfill. Two miscellaneous organics were detected in sample DC-SW-05 (Table 7).

Sediment sample DC-SD-06 contained chloroform (4 times MQL), evidence of petroleum product, and low levels of several polyaromatic hydrocarbons. Unidentified extractables were found in all sediment samples (Table 9). Leachate samples DC-LS-01 and DC-LS-02 also contained unidentified extractable organics (Table 11).

Carbon dioxide was detected in the background groundwater sample. Presumptive evidence of an estimated 7 ug/l of acetaldehyde was detected in DC-PW-01A as well as low levels of trichloroethylene. Elevated levels (26 ug/l) of trichloroethylene were detected in DC-PW-01. Trichloroethylene is traditionally used as a degreasing solvent (Refs. 19, p. 829; 20, pp. 296-299).

4.4.3.2 Summary of Inorganic Analytical Results

Few inorganics were found at elevated levels in surface soil samples. Sample DC-SS-03 contained copper (5 times background) and zinc (3 times background). Calcium and zinc were also found at elevated levels in subsurface soil. Samples DC-SB-02 and DC-SB-03 contained calcium (6 and 21 times background), and sample DC-SB-03 contained zinc (4 times background) (Table 6).

Surface water samples contained a wide variety of inorganics. Sample DC-SW-02, collected from Worley Furnace Creek downstream of the landfill, contained aluminum (7 times background), iron (250 times MQL), barium (8 times background), magnesium (640 times MQL), potassium (22 times MQL), and sodium (35 times MQL). Sample DC-SW-04, taken from a pond in the northern part of the

landfill, contained iron (275 times MQL), aluminum (24 times background), barium (4 times background), vanadium (3 times MQL), zinc (9 times MQL), and magnesium (360 times MQL). Barium (4 times background), iron (13 times MQL), sodium (39 times MQL), potassium (23 times MQL), and magnesium (92 times MQL) were detected in sample DC-SW-05, collected from a run-off pipe in the center of the landfill. Surface water sample DC-SW-06 was taken from a creek just south of the landfill. This sample contained elevated levels of calcium (3 times background), barium (5 times background), magnesium (3 times MQL), potassium (8 times MQL), and sodium (8 times MQL) (Table 8).

Sediment samples did not contain elevated levels of inorganics, with the exception of DC-SD-02 and DC-SD-06. Sample DC-SD-02 had elevated aluminum (4 times background), magnesium (5 times background), and potassium (4 times background). Calcium (24 times background) and magnesium (28 times background) were detected in sample DC-SD-06 (Table 10).

Zinc was detected in leachate sample DC-LS-01 (3 times background). Elevated levels of potassium (4 times background), magnesium (3 times background), lead (4 times background), and aluminum (3 times background) were found in sample DC-LS-02 (Table 12).

Sample DC-MW-02 contained elevated levels of iron (5 times background), copper (3 times MQL), barium (4 times background), nickel (3 times MQL), vanadium (3 times MQL), manganese (16 times background), and aluminum (8 times background). Sample DC-PW-01A contained elevated levels of copper (5.8 times MQL), strontium (82 ug/l), and titanium (5.4 ug/l) (Table 14).

5.0 SUMMARY

Dickson County Landfill was originally opened as the city dump in 1968 and was operated as an open dump until the county purchased the property to use as a landfill. During the time it was operated as a dump, several industries dumped trailer loads of drums at the dump. These drums contained solvents, paint wastes, and unknown wastes. The surface water pathways are the primary pathways of concern at Dickson County Landfill. Approximately 29,213 (10,250 connections x 2.85 people/household) receive water from the City of Dickson Water Department. The City of Dickson Water Department obtains its water from two wells (located within 4,000 feet of the landfill) and two surface water intakes (one on the West Piney River and one on Dickson Lake). The surface water pathways leaving Dickson County Landfill both lead to the West Piney River within 15-stream-miles (the southwest surface water pathway is approximately 6-downstream-miles; the southern surface water pathway is approximately 12-downstream-miles. Also, 1,402 people obtain drinking water from private wells or springs within a 4-mile radius of the landfill.

A total of 24 environmental samples were collected during the field investigation conducted the week of January 28, 1991. The samples consisted of three surface soil, subsurface soil, three leachate, six sediment, six surface water, two monitoring well, and one private well sample. The primary findings of this investigation were contaminated surface and subsurface soils, surface water, sediment, and a nearby private well. Surface water samples contained a variety of inorganic contaminants, methyl ethyl ketone, and two miscellaneous organics. One sediment sample contained chloroform, several polyaromatic hydrocarbons, and evidence of petroleum product. A nearby private well was contaminated with low levels of trichloroethylene. The surface and subsurface soil samples collected within the landfill contained substantially elevated levels of pesticides. The leachate samples contained unidentified organics and various inorganic contaminants.

Based on the presence of elevated levels of pesticides within the landfill, the contamination of surface water and sediment samples, the presence of a downstream surface water intake for the City of Dickson Water Department, the presence of two municipal wells within 4,000 feet of the landfill, and the presence of trichloroethylene in the private well, FIT 4 recommends that Dickson County Landfill be evaluated using the HRS (effective March 14, 1991).

NUS CORPORATION
1927 LAKESIDE PARKWAY
SUITE 614
TUCKER, GEORGIA 30084
404 938-7710

C-586-6-1-93

June 30, 1991

Mr. Bernie Hayes
Chief, Groundwater Technology Unit
Groundwater Protection Branch
Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Subject: Potable Well Water Samples
Dickson County Landfill
Dickson, Dickson County, Tennessee
TDD No. F4-9012-02

Dear Mr. Hayes:

On January 31, 1991, HALLIBURTON NUS Environmental Corporation (EPA-FIT) obtained water samples from a private well at the following address:

Sample Number	Address
PW-01	Mr. Harry Holt Box 340 Eno Road Dickson, Tennessee 37055

Two (2) copies of the respective laboratory analyses are enclosed with a sample location map. If you have any questions regarding this matter, feel free to contact me at this office (404) 938-7710

Very truly yours,

T. Gary Benfield
Project Manager

Approved:

TGB/jec

Enclosures

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA57

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
1J	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
2B	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-268 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA57

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLORDISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. I.F
STATION ID: PW-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEIMFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 0900 STOP: 00/00/00
D. NUMBER: AA67

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA57

UG/L	ANALYTICAL RESULTS
47U	ALUMINUM
3DU	ANTIMONY
4U	ARSENIC
8U	BARIUM
1U	BERYLLIUM
2U	CADMIUM
43000	CALCIUM
3U	CHROMIUM
3U	COBALT
11	COPPER
20U	IRON
11J	LEAD
5000	MAGNESIUM

UG/L	ANALYTICAL RESULTS
2U	MANGANESE
.20U	MERCURY
9U	NICKEL
640U	POTASSIUM
1U	SELENIUM
4U	SILVER
1900U	SODIUM
2U	THALLIUM
NA	TIN
2U	VANADIUM
230J	ZINC

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA57 MD NO: AA57

RESULTS	UNITS	PARAMETER
12U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00

CASE NO.: 16773 SAS NO.: D. NO.: AA57

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
1J	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
28	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: PW-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 0900 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA57

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUN QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA57

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES
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*C-CONFIRMED BY GC/MS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA57

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
47U	ALUMINUM	2U	MANGANESE
30U	ANTIMONY	.20U	MERCURY
4U	ARSENIC	9U	NICKEL
8U	BARIUM	640U	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
43000	CALCIUM	1900U	SODIUM
3U	CHROMIUM	2U	THALLIUM
3U	COBALT	NA	TIN
11	COPPER	2U	VANADIUM
20U	IRON	230J	ZINC
11J	LEAD		
5000	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

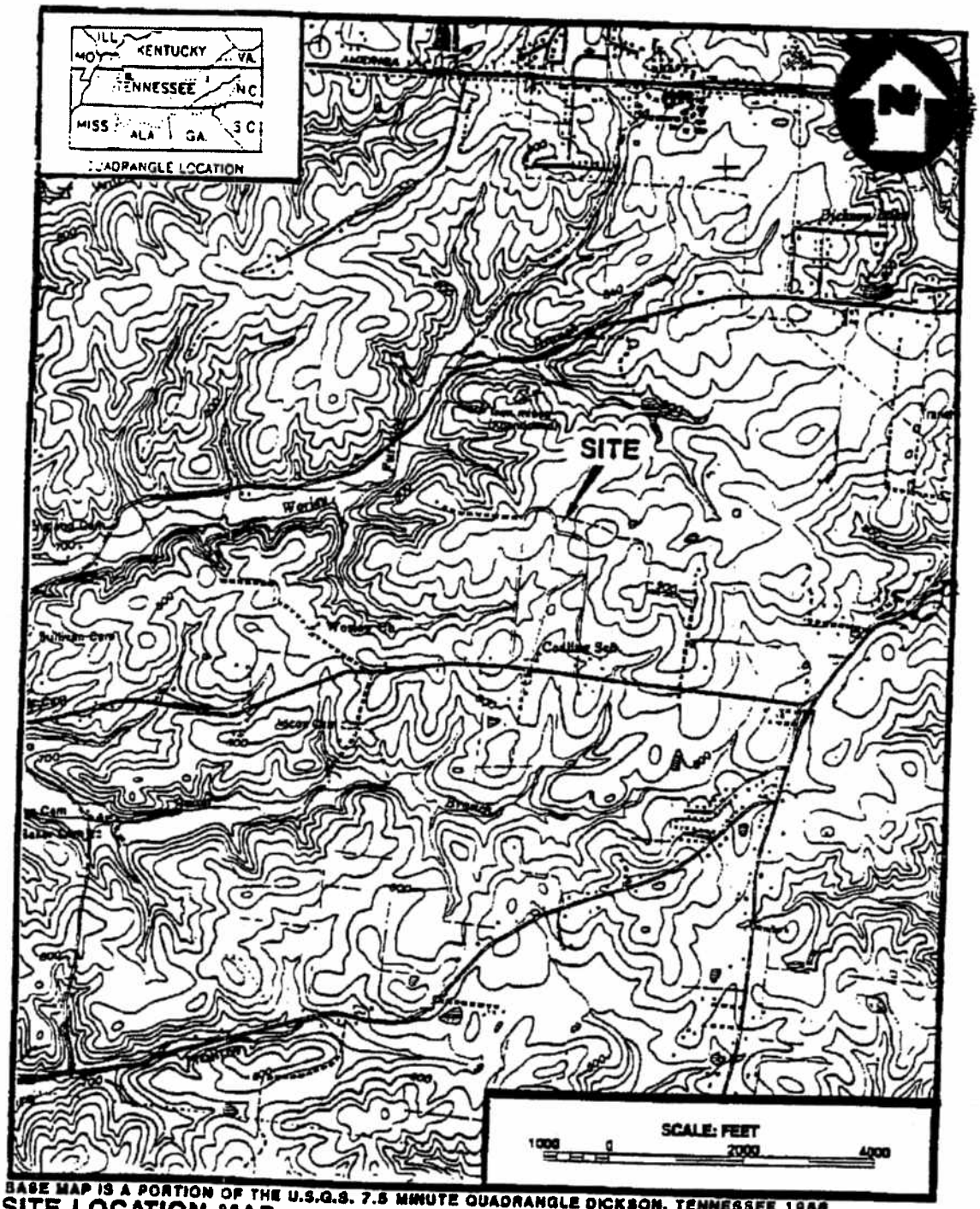
03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA57 MD NO: AA57

RESULTS	UNITS	PARAMETER
12U	UG/L	CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



BASE MAP IS A PORTION OF THE U.S.G.S. 7.5 MINUTE QUADRANGLE DICKSON, TENNESSEE 1966.

SITE LOCATION MAP
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

FIGURE 1

NUS CORPORATION

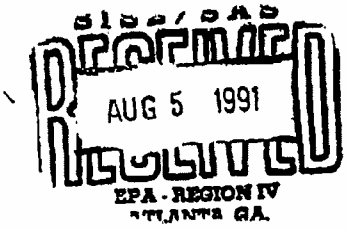
TN0981467673

SITE [redacted] (FIT) STATE [redacted] MANAGER ROGER FRANKLIN (NUS)
PROJECT # 91-833 SHIPWEEK 07/15/91

SOILVOA BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES
H2OVOA BOOKED	2	DATA RECEIVED	08/05/91	FOR	2	SAMPLES
SOILEXT BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES
H2OEXT BOOKED	2	DATA RECEIVED	/ /	FOR		SAMPLES
SOILPEST BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES
H2OPEST BOOKED	2	DATA RECEIVED	/ /	FOR		SAMPLES
SOILMET BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES
H2OMET BOOKED	2	DATA RECEIVED	08/05/91	FOR	2	SAMPLES
SOILCN BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES
H2OCN BOOKED	2	DATA RECEIVED	/ /	FOR		SAMPLES
SOILOTH1 BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES
SOILOTH2 BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES
H2OOTH1 BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES
H2OOTH2 BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES
OTHER1 BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES
OTHER2 BOOKED	0	DATA RECEIVED	/ /	FOR		SAMPLES

LAB(CLP/ESD) ESD

REMARKS RUSH TURNAROUND ORIGINAL VOA RESULTS RECVD 7/29/91



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613

*****MEMORANDUM******

DATE: 07/27/91

SUBJECT: Results of Purgeable Organic Analysis;
91-833 DICKSON COUNTY LF
DICKSON TN

FROM: Frank Allen, Chemist

TO: PHIL BLACKWELL

THRU: Tom B. Bennett, Jr.
Chief, Organic Chemistry Section

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

07/26/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-833 SAMPLE NO. 60226 SAMPLE TYPE: BLKWA
SOURCE: DICKSON COUNTY LF
STATION ID: TB-01W TRIP BLANK

PROG ELEM: NSF COLLECTED BY: R YOUNG
CITY: DICKSON ST: TN
COLLECTION START: 07/23/91 STOP: 00/00/00

UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE
5.0U	VINYL CHLORIDE
5.0U	BROMOMETHANE
5.0U	CHLOROETHANE
5.0U	TRICHLOROFLUOROMETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLORDETHYLENE)
50U	ACETONE
12U	CARBON DISULFIDE
5.0U	METHYLENE CHLORIDE
5.0U	TRANS-1,2-DICHLOROETHENE
5.0U	1,1-DICHLOROETHANE
12U	VINYL ACETATE
5.0U	CIS-1,2-DICHLOROETHENE
5.0U	2,2-DICHLOROPROPANE
50U	METHYL ETHYL KETONE
5.0U	BROMOCHLOROMETHANE
5.0U	CHLOROFORM
5.0U	1,1,1-TRICHLOROETHANE
5.0U	1,1-DICHLOROPROPENE
5.0U	CARBON TETRACHLORIDE
5.0U	1,2-DICHLOROETHANE
5.0U	BENZENE
5.0U	TRICHLOROETHENE(TRICHLOROETHYLENE)
5.0U	1,2-DICHLOROPROPANE
5.0U	DIBROMOMETHANE
5.0U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
5.0U	CIS-1,3-DICHLOROPROPENE
12U	METHYL ISOBUTYL KETONE
5.0U	TOLUENE
5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	1,1,2-TRICHLOROETHANE
5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.0U	1,3-DICHLOROPROPANE
12U	METHYL BUTYL KETONE
5.0U	DIBROMOCHLOROMETHANE
5.0U	CHLOROBENZENE
5.0U	1,1,1,2-TETRACHLOROETHANE
5.0U	ETHYL BENZENE
5.0U	(M- AND/OR P-)XYLENE
5.0U	O-XYLENE
5.0U	STYRENE
5.0U	BROMOFORM
5.0U	BROMOBENZENE
5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	1,2,3-TRICHLOROPROPANE
5.0U	O-CHLOROTOLUENE
5.0U	P-CHLOROTOLUENE
5.0U	1,3-DICHLOROBENZENE
5.0U	1,4-DICHLOROBENZENE
5.0U	1,2-DICHLOROBENZENE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 07/26/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-833 SAMPLE NO. 60227 SAMPLE TYPE: DRKWA
SOURCE: DICKSON COUNTY LF
STATION ID: PW-01A PRIVATE WELL

PROG ELEM: NSF COLLECTED BY: R YOUNG
CITY: DICKSON ST: TN
COLLECTION START: 07/24/91 1035 STOP: 00/00/00

UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE
5.0U	VINYL CHLORIDE
5.0U	BROMOMETHANE
5.0U	CHLOROETHANE
5.0U	TRICHLOROFLUOROMETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
50U	ACETONE
12U	CARBON DISULFIDE
5.0U	METHYLENE CHLORIDE
5.0U	TRANS-1,2-DICHLOROETHENE
5.0U	1,1-DICHLOROETHANE
12U	VINYL ACETATE
5.0U	CIS-1,2-DICHLOROETHENE
5.0U	2,2-DICHLOROPROPANE
50U	METHYL ETHYL KETONE
5.0U	BROMOCHLOROMETHANE
5.0U	CHLOROFORM
5.0U	1,1,1-TRICHLOROETHANE
5.0U	1,1-DICHLOROPROPENE
5.0U	CARBON TETRACHLORIDE
5.0U	1,2-DICHLOROETHANE
5.0U	BENZENE
3.0J	TRICHLOROETHENE(TRICHLOROETHYLENE)
5.0U	1,2-DICHLOROPROPANE
5.0U	DIBROMOMETHANE
5.0U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
5.0U	CIS-1,3-DICHLOROPROPENE
12U	METHYL ISOBUTYL KETONE
5.0U	TOLUENE
5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	1,1,2-TRICHLOROETHANE
5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.0U	1,3-DICHLOROPROPANE
12U	METHYL BUTYL KETONE
5.0U	DIBROMOCHLOROMETHANE
5.0U	CHLOROBENZENE
5.0U	1,1,1,2-TETRACHLOROETHANE
5.0U	ETHYL BENZENE
5.0U	(M- AND/OR P-)XYLENE
5.0U	O-XYLENE
5.0U	STYRENE
5.0U	BROMOFORM
5.0U	BROMOBENZENE
5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	1,2,3-TRICHLOROPROPANE
5.0U	O-CHLOROTOLUENE
5.0U	P-CHLOROTOLUENE
5.0U	1,3-DICHLOROBENZENE
5.0U	1,4-DICHLOROBENZENE
5.0U	1,2-DICHLOROBENZENE

REMARKS

REMARKS

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[2] From: RKlein 7/26/91 4:11PM (631 bytes: 11 ln)
To: SDeihl, GAdams
Receipt Requested
bcc: RKlein
Subject: Dickson County Landfill
---------- Message Contents ----------

Myron Stevenson of ESD called today with results from analysis of the water sample collected from Harry Holt's private well 500 ft. from the site. 3.9 ppb of TCE was detected in the sample. This is a J value since it's below the quantitation limit of 5 ppb. Myron said that this sample was O.K.; no air bubbles. He will be sending over a hard copy of the analysis report next week.

Ramona Klein

Window: 1 - 24 Lines: 17 Edit: Help: F1 End: ENTER

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1010 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA58

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA59

UG/KG	ANALYTICAL RESULTS
15U	CHLOROMETHANE
15U	BROMOMETHANE
15U	VINYL CHLORIDE
15U	CHLOROETHANE
30U	METHYLENE CHLORIDE
15U	ACETONE
15U	CARBON DISULFIDE
15U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
15U	1,1-DICHLOROETHANE
15U	1,2-DICHLOROETHENE (TOTAL)
15U	CHLOROFORM
15U	1,2-DICHLOROETHANE
15U	METHYL ETHYL KETONE
15U	1,1,1-TRICHLORDETHANE
15U	CARBON TETRACHLORIDE
15U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
15U	1,2-DICHLOROPROPANE
15U	CIS-1,3-DICHLOROPROPENE
15U	TRICHLOROETHENE(TRICHLOROETHYLENE)
15U	DIBROMOCHLOROMETHANE
15U	1,1,2-TRICHLOROETHANE
15U	BENZENE
15U	TRANS-1,3-DICHLOROPROPENE
15U	BROMOFORM
15U	METHYL ISOBUTYL KETONE
15U	METHYL BUTYL KETONE
15U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
15U	1,1,2,2-TETRACHLOROETHANE
15U	TOLUENE
15U	CHLOROBENZENE
15U	ETHYL BENZENE
15U	STYRENE
15U	TOTAL XYLENES
34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: O. NO.: AA60

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF
STATION ID: SD-05

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1130 STOP: 00/00/00

D. NO.: AA61

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLOROETHANE
30U	METHYLENE CHLORIDE
13U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
13U	CHLOROFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA62

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-04

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1145 STOP: 00/00/00

D. NO.: AA63

UG/KG	ANALYTICAL RESULTS
14U	CHLOROMETHANE
14U	BROMOMETHANE
14U	VINYL CHLORIDE
14U	CHLOROETHANE
30U	METHYLENE CHLORIDE
14U	ACETONE
14U	CARBON DISULFIDE
14U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
14U	1,1-DICHLOROETHANE
14U	1,2-DICHLOROETHENE (TOTAL)
14U	CHLOROFORM
14U	1,2-DICHLOROETHANE
14U	METHYL ETHYL KETONE
14U	1,1,1-TRICHLOROETHANE
14U	CARBON TETRACHLORIDE
14U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
14U	1,2-DICHLOROPROPANE
14U	CIS-1,3-DICHLOROPROPENE
14U	TRICHLOROETHENE(TRICHLOROETHYLENE)
14U	DIBROMOCHLOROMETHANE
14U	1,1,2-TRICHLOROETHANE
14U	BENZENE
14U	TRANS-1,3-DICHLOROPROPENE
14U	BROMOFORM
14U	METHYL ISOBUTYL KETONE
14U	METHYL BUTYL KETONE
14U	TETRACHLORDETHENE(TETRACHLOROETHYLENE)
14U	1,1,2,2-TETRACHLOROETHANE
14U	TOLUENE
14U	CHLOROBENZENE
14U	ETHYL BENZENE
14U	STYRENE
14U	TOTAL XYLENES
30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-02

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00

D. NO.: AA64

UG/KG	ANALYTICAL RESULTS
15U	CHLOROMETHANE
15U	BROMOMETHANE
15U	VINYL CHLORIDE
15U	CHLOROETHANE
40U	METHYLENE CHLORIDE
15U	ACETONE
15U	CARBON DISULFIDE
15U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
15U	1,1-DICHLOROETHANE
15U	1,2-DICHLOROETHENE (TOTAL)
15U	CHLOROFORM
15U	1,2-DICHLOROETHANE
15U	METHYL ETHYL KETONE
15U	1,1,1-TRICHLOROETHANE
15U	CARBON TETRACHLORIDE
15U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
15U	1,2-DICHLOROPROPANE
15U	CIS-1,3-DICHLOROPROPENE
15U	TRICHLOROETHENE(TRICHLOROETHYLENE)
15U	DIBROMOCHLOROMETHANE
15U	1,1,2-TRICHLOROETHANE
15U	BENZENE
15U	TRANS-1,3-DICHLOROPROPENE
15U	BROMOFORM
15U	METHYL ISOBUTYL KETONE
15U	METHYL BUTYL KETONE
15U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
15U	1,1,2,2-TETRACHLOROETHANE
15U	TOLUENE
15U	CHLOROBENZENE
15U	ETHYL BENZENE
15U	STYRENE
15U	TOTAL XYLENES
34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA65

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYL CHLORIDE	10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	DIBROMOCHLOROMETHANE
10U	METHYLENE CHLORIDE	10U	1,1,2-TRICHLOROETHANE
80U	ACETONE	10U	BENZENE
10U	CARBON DISULFIDE	10U	TRANS-1,3-DICHLOROPROPENE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U	BROMOFORM
10U	1,1-DICHLOROETHANE	1J	METHYL ISOBUTYL KETONE
10U	1,2-DICHLOROETHENE (TOTAL)	10U	METHYL BUTYL KETONE
10U	CHLOROFORM	10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,2-DICHLOROETHANE	10U	1,1,2,2-TETRACHLOROETHANE
45	METHYL ETHYL KETONE	2J	TOLUENE
10U	1,1,1-TRICHLOROETHANE	10U	CHLOROBENZENE
10U	CARBON TETRACHLORIDE	10U	ETHYL BENZENE
10U	BROMODICHLOROMETHANE	10U	STYRENE
		1J	TOTAL XYLENES

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA66

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-03

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1340 STOP: 00/00/00

D. NO.: AA67

UG/KG	ANALYTICAL RESULTS
14U	CHLOROMETHANE
14U	BROMOMETHANE
14U	VINYL CHLORIDE
14U	CHLOROETHANE
40U	METHYLENE.CHLORIDE
14U	ACETONE
14U	CARBON DISULFIDE
14U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
14U	1,1-DICHLOROETHANE
14U	1,2-DICHLOROETHENE (TOTAL)
14U	CHLOROFORM
14U	1,2-DICHLOROETHANE
14U	METHYL ETHYL KETONE
14U	1,1,1-TRICHLOROETHANE
14U	CARBON TETRACHLORIDE
14U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
14U	1,2-DICHLOROPROPANE
14U	CIS-1,3-DICHLOROPROPENE
14U	TRICHLOROETHENE(TRICHLOROETHYLENE)
14U	DIBROMOCHLOROMETHANE
14U	1,1,2-TRICHLOROETHANE
14U	BENZENE
14U	TRANS-1,3-DICHLOROPROPENE
14U	BROMOFORM
14U	METHYL ISOBUTYL KETONE
14U	METHYL BUTYL KETONE
14U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
14U	1,1,2,2-TETRACHLOROETHANE
14U	TOLUENE
14U	CHLOROBENZENE
14U	ETHYL BENZENE
14U	STYRENE
14U	TOTAL XYLENES
27	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA68

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-06

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO : AA69

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLOROETHANE
40U	METHYLENE CHLORIDE
40U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
58	CHLOROFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
25	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. S4446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00

D. NO.: AA70

UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE
12U	BROMOMETHANE
12U	VINYL CHLORIDE
12U	CHLOROETHANE
40U	METHYLENE CHLORIDE
12U	ACETONE
12U	CARBON DISULFIDE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
12U	1,1-DICHLOROETHANE
12U	1,2-DICHLOROETHENE (TOTAL)
12U	CHLOROFORM
12U	1,2-DICHLOROETHANE
12U	METHYL ETHYL KETONE
12U	1,1,1-TRICHLOROETHANE
12U	CARBON TETRACHLORIDE
12U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
12U	1,2-DICHLOROPROPANE
12U	CIS-1,3-DICHLOROPROPENE
12U	TRICHLOROETHENE(TRICHLOROETHYLENE)
12U	DIBROMOCHLORONETHANE
12U	1,1,2-TRICHLOROETHANE
12U	BENZENE
12U	TRANS-1,3-DICHLOROPROPENE
12U	BROMOFORM
12U	METHYL ISOBUTYL KETONE
12U	METHYL BUTYL KETONE
12U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12U	1,1,2,2-TETRACHLOROETHANE
12U	TOLUENE
12U	CHLOROBENZENE
12U	ETHYL BENZENE
12U	STYRENE
12U	TOTAL XYLENES
19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-02

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1125 STOP: 00/00/00

D. NO.: AA71

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLOROETHANE
70U	METHYLENE CHLORIDE
13U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
13U	CHLOROFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
21	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-03

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START. 01/30/91 1230 STOP: 00/00/00

D. NO.: AA72

UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE
12U	BROMOMETHANE
12U	VINYL CHLORIDE
12U	CHLOROETHANE
60U	METHYLENE CHLORIDE
12U	ACETONE
12U	CARBON DISULFIDE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
12U	1,1-DICHLOROETHANE
12U	1,2-DICHLOROETHENE (TOTAL)
12U	CHLOROFORM
12U	1,2-DICHLOROETHANE
12U	METIVL ETIVL KETONE
12U	1,1,1-TRICHLORDETHANE
12U	CARBON TETRACHLORIDE
12U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
12U	1,2-DICHLOROPROPANE
12U	CIS-1,3-DICHLOROPROPENE
12U	TRICHLOROETHENE(TRICHLOROETHYLENE)
12U	DIBROMOCHLOROMETHANE
12U	1,1,2-TRICHLOROETHANE
12U	BENZENE
12U	TRANS-1,3-DICHLOROPROPENE
12U	BROMOFORM
12U	METHYL ISOBUTYL KETONE
12U	METHYL BUTYL KETONE
12U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12U	1,1,2,2-TETRACHLOROETHANE
12U	TOLUENE
12U	CHLOROBENZENE
12U	ETHYL BENZENE
12U	STYRENE
12U	TOTAL XYLENES
19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-03

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA73

UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE
12U	BROMOMETHANE
12U	VINYL CHLORIDE
12U	CHLOROETHANE
10U	METHYLENE CHLORIDE
50U	ACETONE
12U	CARBON DISULFIDE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
12U	1,1-DICHLOROETHANE
12U	1,2-DICHLOROETHENE (TOTAL)
12U	CHLOROFORM
12U	1,2-DICHLOROETHANE
12U	METHYL ETHYL KETONE
12U	1,1,1-TRICHLOROETHANE
12U	CARBON TETRACHLORIDE
12U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
12U	1,2-DICHLOROPROPANE
12U	CIS-1,3-DICHLOROPROPENE
12U	TRICHLOROETHENE(TRICHLOROETHYLENE)
12U	DIBROMOCHLOROMETHANE
12U	1,1,2-TRICHLOROETHANE
12U	BENZENE
12U	TRANS-1,3-DICHLOROPROPENE
12U	BROMOFORM
12U	METHYL ISOBUTYL KETONE
12U	METHYL BUTYL KETONE
12U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12U	1,1,2,2-TETRACHLOROETHANE
12U	TOLUENE
12U	CHLOROBENZENE
12U	ETHYL BENZENE
12U	STYRENE
12U	TOTAL XYLENES
20	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA74

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
6	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA75

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
20U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA60

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20U	METHYLENE CHLORIDE
20U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54457 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: TB-01S

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1300 STOP: 00/00/00

D. NO.: AA51

UG/KG	ANALYTICAL RESULTS
14U	CHLOROMETHANE
14U	BROMOMETHANE
14U	VINYL CHLORIDE
14U	CHLOROETHANE
30U	METHYLENE CHLORIDE
14U	ACETONE
14U	CARBON DISULFIDE
14U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
14U	1,1-DICHLOROETHANE
14U	1,2-DICHLOROETHENE (TOTAL)
14U	CHLOROFORM
14U	1,2-DICHLOROETHANE
14U	METHYL ETHYL KETONE
14U	1,1,1-TRICHLORDETHANE
14U	CARBON TETRACHLORIDE
14U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
14U	1,2-DICHLOROPROPANE
14U	CIS-1,3-DICHLOROPROPENE
14U	TRICHLOROETHENE(TRICHLOROETHYLENE)
14U	DIBROMOCHLOROMETHANE
14U	1,1,2-TRICHLOROETHANE
14U	BENZENE
14U	TRANS-1,3-DICHLOROPROPENE
14U	BROMOFORM
14U	METHYL ISOBUTYL KETONE
14U	METHYL BUTYL KETONE
14U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
14U	1,1,2,2-TETRACHLOROETHANE
14U	TOLUENE
14U	CHLOROBENZENE
14U	ETHYL BENZENE
14U	STYRENE
14U	TOTAL XYLENES
28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV
Environmental Services Division
College Station Road, Athens, Ga. 30613

*****MEMORANDUM******

DATE: 04/24/91

SUBJECT: Results of Extractable Organic Analysis;
91-266 DICKSON CO. LF
DICKSON TN
CASE NO: 15773

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

ORGANIC DATA QUALIFIER REPORT

Case Number 15773 Project Number 91-266 SAS Number

Site ID. Dickson Co. LF., Dickson, TN.

Affected Samples	Compound or Fraction	Flag Used	Reason
Volatiles			
54441	4-methyl-2-pentanone	J	<quantitation limit
	toluene	J	<quantitation limit
	xylenes	J	<quantitation limit
54433	1,2-dichloroethene	J	<quantitation limit
Extractables			
all water samples	chrysene	J	low recovery blind spike
54432	all extractables	J	excessive holding time
54430,54440,54441, 54446,54449	all positives	J	<quantitation limit
54445	phenanthrene	J	<quantitation limit
	anthracene	J	<quantitation limit
	fluoranthene	J	<quantitation limit
	pyrene	J	<quantitation limit
	benzo(a)anthracene	J	<quantitation limit
	chrysene	J	<quantitation limit
54434,54444,54450, 54451	all extractables	J	exceeded 40CFR136 holding time
Pesticides			
54456	all pesticides	J	exceeded 40CFR136 holding time
54448	4,4'-DDE	J	excessive holding time; detected
	4,4'-DDD	J	excessive holding time; detected
	4,4'-DDT	J	excessive holding time; detected
	all other persicides	R	excessive holding time

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-01

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1515 STOP: 00/00/00

D. NO.: AA52

UG/KG	ANALYTICAL RESULTS
430U	PHENOL
430U	BIS(2-CHLOROETHYL) ETHER
430U	2-CHLOROPHENOL
430U	1,3-DICHLOROBENZENE
430U	1,4-DICHLOROBENZENE
430U	1,2-DICHLOROBENZENE
430U	2-METHYLPHENOL
430U	2,2'-CHLOROISOPROPYLETHER
430U	(3-AND/OR 4-)METHYLPHENOL
430U	N-NITROSODI-N-PROPYLAMINE
430U	HEXACHLOROETHANE
430U	NITROBENZENE
430U	ISOPHORONE
430U	2-NITROPHENOL
430U	2,4-DIMETHYLPHENOL
430U	BIS(2-CHLOROETHOXY) METHANE
430U	2,4-DICHLOROPHENOL
430U	1,2,4-TRICHLOROBENZENE
430U	NAPHTHALENE
430U	4-CHLOROANILINE
430U	HEXACHLOROBUTADIENE
430U	4-CHLORO-3-METHYLPHENOL
430U	2-METHYLNAPHTHALENE
430U	HEXACHLOROCYCLOPENTADIENE (HCCP)
430U	2,4,6-TRICHLOROPHENOL
2200U	2,4,5-TRICHLOROPHENOL
430U	2-CHLORONAPHTHALENE
2200U	2-NITROANILINE
430U	DIMETHYL PHTHALATE
430U	ACENAPHTHYLENE
430U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200U	3-NITROANILINE
430U	ACENAPHTHENE
2200U	2,4-DINITROPHENOL
2200U	4-NITROPHENOL
430U	DIBENZOFURAN
430U	2,4-DINITROTOLUENE
430U	DIETHYL PHTHALATE
430U	4-CHLOROPHENYL PHENYL ETHER
430U	FLUORENE
2200U	4-NITROANILINE
2200U	2-METHYL-4,6-DINITROPHENOL
430U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
430U	4-BROMOPHENYL PHENYL ETHER
430U	HEXACHLOROBENZENE (HCB)
2200U	PENTACHLOROPHENOL
430U	PHENANTHRENE
430U	ANTHRACENE
430U	CARBAZOLE
430U	DI-N-BUTYLPHTHALATE
430U	FLUORANTHENE
430U	PYRENE
430U	BENZYL BUTYL PHTHALATE
430U	3,3'-DICHLOROBENZIDINE
430U	BENZO(A)ANTHRACENE
430U	CHRYSENE
430U	BIS(2-ETHYLHEXYL) PHTHALATE
430U	DI-N-OCTYLPHTHALATE
430U	BENZO(B AND/OR K)FLUORANTHENE
430U	BENZO-A-PYRENE
430U	INDENO (1,2,3-CD) PYRENE
430U	DIBENZO(A,H)ANTHRACENE
430U	BENZO(GHI)PERYLENE
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 64429 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1630 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA53

UG/KG	ANALYTICAL RESULTS
400U	PHENOL
400U	BIS(2-CHLOROETHYL) ETHER
400U	2-CHLOROPHENOL
400U	1,3-DICHLOROBENZENE
400U	1,4-DICHLOROBENZENE
400U	1,2-DICHLOROBENZENE
400U	2-METHYLPHENOL
400U	2,2'-CHLOROISOPROPYLETHER
400U	(3-AND/OR 4-)METHYLPHENOL
400U	N-NITROSODI-N-PROPYLAMINE
400U	HEXACHLOROETHANE
400U	NITROBENZENE
400U	ISOPHORONE
400U	2-NITROPHENOL
400U	2,4-DIMETHYLPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE
400U	2,4-DICHLOROPHENOL
400U	1,2,4-TRICHLOROBENZENE
400U	NAPHTHALENE
400U	4-CHLOROANILINE
400U	HEXACHLOROBUTADIENE
400U	4-CHLORO-3-METHYLPHENOL
400U	2-METHYLNAPHTHALENE
400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
400U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
400U	2-CHLORONAPHTHALENE
2100U	2 NITROANILINE
400U	DIMETHYL PHTHALATE
400U	ACENAPHTHYLENE
400U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
400U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
400U	DIBENZOFURAN
400U	2,4-DINITROTOLUENE
400U	DIETHYL PHTHALATE
400U	4-CHLOROPHENYL PHENYL ETHER
400U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U	4-BROMOPHENYL PHENYL ETHER
400U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
400U	PHENANTHRENE
400U	ANTHRACENE
400U	CARBAZOLE
400U	DI-N-BUTYLPHTHALATE
400U	FLUORANTHENE
400U	PYRENE
400U	BENZYL BUTYL PHTHALATE
400U	3,3'-DICHLOROBENZIDINE
400U	BENZO(A)ANTHRACENE
400U	CHRYSENE
400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	DI-N-OCTYLPHTHALATE
400U	BENZO(B AND/OR K)FLUORANTHENE
400U	BENZO-A-PYRENE
400U	INDENO (1,2,3-CD) PYRENE
400U	DIBENZO(A,H)ANTHRACENE
400U	BENZO(GHI)PERYLENE
18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

```
EMENT SYSTEM                                                    04/23/91
ENS, GA.
T=
% ELEM: NSF   COLLECTED BY: G BEINFIELD
: DICKSON                    ST: TN
ECTION START: 01/28/91  1530   STOP: 00/00/00
O
. NO.: AA53
<G                ANALYTICAL RESULTS
RU  3-NITROANILINE
RU  ACENAPHTHENE
RU  2,4-DINITROPHENOL
RU  4-NITROPHENOL
RU  DIBENZOFURAN
RU  2,4-DINITROTOLUENE
RU  DIETHYL PHTHALATE
RU  4-CHLOROPHENYL PHENYL ETHER
RU  FLUORENE
RU  4-NITROANILINE
RU  2-METHYL-4,6-DINITROPHENOL
RU  N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
RU  4-BROMOPHENYL PHENYL ETHER
RU  HEXACHLOROBENZENE (HCB)
RU  PENTACHLOROPHENOL
RU  PHENANTHRENE
RU  ANTHRACENE
RU  CARBAZOLE
RU  DI-N-BUTYLPHTHALATE
RU  FLUORANTHENE
RU  PYRENE
RU  BENZYL BUTYL PHTHALATE
RU  3,3'-DICHLORDBENZIDINE
RU  BENZO(A)ANTHRACENE
RU  CHRYSENE
RU  BIS(2-ETHYLHEXYL) PHTHALATE
RU  DI-N-OCTYLPHTHALATE
RU  BENZO(B AND/OR K)FLUORANTHENE
RU  BENZO-A-PYRENE
RU  INDENO (1,2,3-CD) PYRENE
RU  DIBENZO(A,H)ANTHRACENE
RU  BENZO(GHI)PERYLENE
18  PERCENT MOISTURE

MARKS***

TED VALUE  *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 IS KNOWN TO BE GREATER THAN VALUE GIVEN
MUM QUANTITATION LIMIT.
T. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
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@PJL SET RESOLUTION=600

@PJL ENTER LANGUAGE=PCL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1530 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA53

UG/KG	ANALYTICAL RESULTS
400U	PHENOL
400U	BIS(2-CHLOROETHYL) ETHER
400U	2-CHLOROPHENOL
400U	1,3-DICHLOROBENZENE
400U	1,4-DICHLOROBENZENE
400U	1,2-DICHLOROBENZENE
400U	2-METHYLPHENOL
400U	2,2'-CHLOROISOPROPYLETHER
400U	(3-AND/OR 4-)METHYLPHENOL
400U	N-NITROSODI-N-PROPYLAMINE
400U	HEXACHLOROETHANE
400U	NITROBENZENE
400U	ISOPHORONE
400U	2-NITROPHENOL
400U	2,4-DIMETHYLPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE
400U	2,4-DICHLOROPHENOL
400U	1,2,4-TRICHLOROBENZENE
400U	NAPHTHALENE
400U	4-CHLOROANILINE
400U	HEXACHLOROBUTADIENE
400U	4-CHLORO-3-METHYLPHENOL
400U	2-METHYLNAPHTHALENE
400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
400U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
400U	2-CHLORONAPHTHALENE
2100U	2 NITROANILINE
400U	DIMETHYL PHTHALATE
400U	ACENAPHTHYLENE
400U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
400U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
400U	DIBENZOFURAN
400U	2,4-DINITROTOLUENE
400U	DIETHYL PHTHALATE
400U	4-CHLOROPHENYL PHENYL ETHER
400U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U	4-BROMOPHENYL PHENYL ETHER
400U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
400U	PHENANTHRENE
400U	ANTHRACENE
400U	CARBAZOLE
400U	DI-N-BUTYLPHTHALATE
400U	FLUORANTHENE
400U	PYRENE
400U	BENZYL BUTYL PHTHALATE
400U	3,3'-DICHLOROBENZIDINE
400U	BENZO(A)ANTHRACENE
400U	CHRYSENE
400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	DI-N-OCTYLPHTHALATE
400U	BENZO(B AND/OR K)FLUORANTHENE
400U	BENZO-A-PYRENE
400U	INDENO (1,2,3-CD) PYRENE
400U	DIBENZO(A,H)ANTHRACENE
400U	BENZO(GHI)PERYLENE
18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA54

UG/KG	ANALYTICAL RESULTS
450U	PHENOL
450U	BIS(2-CHLOROETHYL) ETHER
450U	2-CHLOROPHENOL
450U	1,3-DICHLOROBENZENE
450U	1,4-DICHLOROBENZENE
450U	1,2-DICHLOROBENZENE
450U	2-METHYLPHENOL
450U	2,2'-CHLORDISOPROPYLETHER
450U	(3-AND/OR 4-)METHYLPHENOL
450U	N-NITROSODI-N-PROPYLAMINE
450U	HEXACHLOROETHANE
450U	NITROBENZENE
450U	ISOPHORONE
450U	2-NITROPHENOL
450U	2,4-DIMETHYLPHENOL
450U	BIS(2-CHLOROETHOXY) METHANE
450U	2,4-DICHLOROPHENOL
450U	1,2,4-TRICHLOROBENZENE
450U	NAPHTHALENE
450U	4-CHLOROANILINE
450U	HEXACHLOROBUTADIENE
450U	4-CHLORO-3-METHYLPHENOL
450U	2-METHYLNAPHTHALENE
450U	HEXACHLOROCYCLOPENTADIENE (HCCP)
450U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
450U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
77J	DIMETHYL PHTHALATE
450U	ACENAPHTHYLENE
450U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
450U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
450U	DIBENZOFURAN
450U	2,4-DINITROTOLUENE
450U	DIETHYL PHTHALATE
450U	4-CHLOROPHENYL PHENYL ETHER
450U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
450U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
450U	4-BROMOPHENYL PHENYL ETHER
450U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
450U	PHENANTHRENE
450U	ANTHRACENE
450U	CARBAZOLE
81J	DI-N-BUTYLPHTHALATE
450U	FLUORANTHENE
450U	PYRENE
450U	BENZYL BUTYL PHTHALATE
450U	3,3'-DICHLOROBENZIDINE
450U	BENZO(A)ANTHRACENE
450U	CHRYSENE
450U	BIS(2-ETHYLHEXYL) PHTHALATE
450U	DI-N-OCTYLPHTHALATE
450U	BENZO(B AND/OR K)FLUORANTHENE
450U	BENZO-A-PYRENE
450U	INDENO (1,2,3-CD) PYRENE
450U	DIBENZO(A,H)ANTHRACENE
450U	BENZO(GHI)PERYLENE
28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1640 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: O. NO.: AA56

UG/KG	ANALYTICAL RESULTS
440U	PHENOL
440U	BIS(2-CHLOROETHYL) ETHER
440U	2-CHLOROPHENOL
440U	1,3-DICHLOROBENZENE
440U	1,4-DICHLOROBENZENE
440U	1,2-DICHLOROBENZENE
440U	2-METHYLPHENOL
440U	2,2'-CHLOROISOPROPYLETHER
440U	(3-AND/OR 4-)METHYLPHENOL
440U	N-NITROSODI-N-PROPYLAMINE
440U	HEXACHLOROETHANE
440U	NITROBENZENE
440U	ISOPHORONE
440U	2-NITROPHENOL
440U	2,4-DIMETHYLPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE
440U	2,4-DICHLOROPHENOL
440U	1,2,4-TRICHLOROBENZENE
440U	NAPHTHALENE
440U	4-CHLOROANILINE
440U	HEXACHLOROBUTADIENE
440U	4-CHLORO-3-METHYLPHENOL
440U	2-METHYLNAPHTHALENE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)
440U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
440U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
440U	DIMETHYL PHTHALATE
440U	ACENAPHTHYLENE
440U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
440U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
440U	DIBENZOFURAN
440U	2,4-DINITROTOLUENE
440U	DIETHYL PHTHALATE
440U	4-CHLOROPHENYL PHENYL ETHER
440U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	4-BROMOPHENYL PHENYL ETHER
440U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
440U	PHENANTHRENE
440U	ANTHRACENE
440U	CARBAZOLE
440U	DI-N-BUTYLPHTHALATE
440U	FLUORANTHENE
440U	PYRENE
440U	BENZYL BUTYL PHTHALATE
440U	3,3'-DICHLOROBENZIDINE
440U	BENZO(A)ANTHRACENE
440U	CHRYSENE
440U	BIS(2-ETHYLHEXYL) PHTHALATE
440U	DI-N-OCTYLPHTHALATE
440U	BENZO(B AND/OR K)FLUORANTHENE
440U	BENZO-A-PYRENE
440U	INDENO (1,2,3-CD) PYRENE
440U	DIBENZO(A,H)ANTHRACENE
440U	BENZO(GHI)PERYLENE
26	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-03

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA56

UG/KG	ANALYTICAL RESULTS
420UJ	PHENOL
420UJ	BIS(2-CHLOROETHYL) ETHER
420UJ	2-CHLOROPHENOL
420UJ	1,3-DICHLOROBENZENE
420UJ	1,4-DICHLOROBENZENE
420UJ	1,2-DICHLOROBENZENE
420UJ	2-METHYLPHENOL
420UJ	2,2'-CHLOROISOPROPYLETHER
420UJ	(3-AND/OR 4-)METHYLPHENOL
420UJ	N-NITROSODI-N-PROPYLAMINE
420UJ	HEXACHLOROETHANE
420UJ	NITROBENZENE
420UJ	ISOPHORONE
420UJ	2-NITROPHENOL
420UJ	2,4-DIMETHYLPHENOL
420UJ	BIS(2-CHLOROETHOXY) METHANE
420UJ	2,4-DICHLOROPHENOL
420UJ	1,2,4-TRICHLOROBENZENE
420UJ	NAPHTHALENE
420UJ	4-CHLOROANILINE
420UJ	HEXACHLOROBUTADIENE
420UJ	4-CHLORO-3-METHYLPHENOL
420UJ	2-METHYLNAPHTHALENE
420UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
420UJ	2,4,6-TRICHLOROPHENOL
2200UJ	2,4,5-TRICHLOROPHENOL
420UJ	2-CHLORONAPHTHALENE
2200UJ	2-NITROANILINE
420UJ	DIMETHYL PHTHALATE
420UJ	ACENAPHTHYLENE
420UJ	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200UJ	3-NITROANILINE
420UJ	ACENAPHTHENE
2200UJ	2,4-DINITROPHENOL
2200UJ	4-NITROPHENOL
420UJ	DIBENZOFURAN
420UJ	2,4-DINITROTOLUENE
420UJ	DIETHYL PHTHALATE
420UJ	4-CHLOROPHENYL PHENYL ETHER
420UJ	FLUORENE
2200UJ	4-NITROANILINE
2200UJ	2-METHYL-4,6-DINITROPHENOL
420UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
420UJ	4-BROMOPHENYL PHENYL ETHER
420UJ	HEXACHLOROBENZENE (HCB)
2200UJ	PENTACHLOROPHENOL
420UJ	PHENANTHRENE
420UJ	ANTHRACENE
420UJ	CARBAZOLE
420UJ	DI-N-BUTYLPHTHALATE
420UJ	FLUORANTHENE
420UJ	PYRENE
420UJ	BENZYL BUTYL PHTHALATE
420UJ	3,3'-DICHLOROBENZIDINE
420UJ	BENZO(A)ANTHRACENE
420UJ	CHRYSENE
420UJ	BIS(2-ETHYLHEXYL) PHTHALATE
420UJ	DI-N-OCTYLPHTHALATE
420UJ	BENZO(B AND/OR K)FLUORANTHENE
420UJ	BENZO-A-PYRENE
420UJ	INDENO (1,2,3-CD) PYRENE
420UJ	DIBENZO(A,H)ANTHRACENE
420UJ	BENZO(GHI)PERYLENE
22	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA57

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1010 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA58

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO : AA59

UG/KG	ANALYTICAL RESULTS
500U	PHENOL
500U	BIS(2-CHLOROETHYL) ETHER
500U	2-CHLOROPHENOL
500U	1,3-DICHLOROBENZENE
500U	1,4-DICHLOROBENZENE
500U	1,2-DICHLOROBENZENE
500U	2-METHYLPHENOL
500U	2,2'-CHLOROISOPROPYLETHER
500U	(3-AND/OR 4-)METHYLPHENOL
500U	N-NITROSODI-N-PROPYLAMINE
500U	HEXACHLOROETHANE
500U	NITROBENZENE
500U	ISOPHORONE
500U	2-NITROPHENOL
500U	2,4-DIMETHYLPHENOL
500U	BIS(2-CHLOROETHOXY) METHANE
500U	2,4-DICHLOROPHENOL
500U	1,2,4-TRICHLOROBENZENE
500U	NAPHTHALENE
500U	4-CHLOROANILINE
500U	HEXACHLOROBUTADIENE
500U	4-CHLORO-3-METHYLPHENOL
500U	2-METHYLNAPHTHALENE
500U	HEXACHLOROCYCLOPENTADIENE (HCCP)
500U	2,4,6-TRICHLOROPHENOL
2800U	2,4,5-TRICHLOROPHENOL
500U	2-CHLORONAPHTHALENE
2600U	2-NITROANILINE
500U	DIMETHYL PHTHALATE
500U	ACENAPHTHYLENE
500U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2600U	3-NITROANILINE
500U	ACENAPHTHENE
2600U	2,4-DINITROPHENOL
2600U	4-NITROPHENOL
500U	DIBENZOFURAN
500U	2,4-DINITROTOLUENE
500U	DIETHYL PHTHALATE
500U	4-CHLOROPHENYL PHENYL ETHER
500U	FLUORENE
2800U	4-NITROANILINE
2800U	2-METHYL-4,6-DINITROPHENOL
500U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
500U	4-BROMOPHENYL PHENYL ETHER
500U	HEXACHLOROBENZENE (HCB)
2600U	PENTACHLOROPHENOL
500U	PHENANTHRENE
500U	ANTHRACENE
500U	CARBAZOLE
500U	DI-N-BUTYLPHTHALATE
500U	FLUORANTHENE
500U	PYRENE
500U	BENZYL BUTYL PHTHALATE
500U	3,3'-DICHLOROBENZIDINE
500U	BENZO(A)ANTHRACENE
500U	CHRYSENE
500U	BIS(2-ETHYLHEXYL) PHTHALATE
500U	DI-N-OCTYLPHTHALATE
500U	BENZO(B AND/OR K)FLUORANTHENE
500U	BENZO-A-PYRENE
500U	INDENO (1,2,3-CD) PYRENE
500U	DIBENZO(A,H)ANTHRACENE
500U	BENZO(GHI)PERYLENE
34	PERCENT MOISTURE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA60

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-05

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1130 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA61

UG/KG	ANALYTICAL RESULTS
430U	PHENOL
430U	BIS(2-CHLOROETHYL) ETHER
430U	2-CHLOROPHENOL
430U	1,3-DICHLOROBENZENE
430U	1,4-DICHLOROBENZENE
430U	1,2-DICHLOROBENZENE
430U	2-METHYLPHENOL
430U	2,2'-CHLOROISOPROPYLETHER
430U	(3-AND/OR 4-)METHYLPHENOL
430U	N-NITROSODI-N-PROPYLAMINE
430U	HEXACHLOROETHANE
430U	NITROBENZENE
430U	ISOPHORONE
430U	2-NITROPHENOL
430U	2,4-DIMETHYLPHENOL
430U	BIS(2-CHLOROETHOXY) METHANE
430U	2,4-DICHLOROPHENOL
430U	1,2,4-TRICHLOROBENZENE
430U	NAPHTHALENE
430U	4-CHLOROANILINE
430U	HEXACHLOROBUTADIENE
430U	4-CHLORO-3-METHYLPHENOL
430U	2-METHYLNAPHTHALENE
430U	HEXACHLOROCYCLOPENTADIENE (HCCP)
430U	2,4,6-TRICHLOROPHENOL
2200U	2,4,5-TRICHLOROPHENOL
430U	2-CHLORONAPHTHALENE
2200U	2-NITROANILINE
430U	DIMETHYL PHTHALATE
430U	ACENAPHTHYLENE
430U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200U	3-NITROANILINE
430U	ACENAPHTHENE
2200U	2,4-DINITROPHENOL
2200U	4-NITROPHENOL
430U	DIBENZOFURAN
430U	2,4-DINITROTOLUENE
430U	DIETHYL PHTHALATE
430U	4-CHLOROPHENYL PHENYL ETHER
430U	FLUORENE
2200U	4-NITROANILINE
2200U	2-METHYL-4,6-DINITROPHENOL
430U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
430U	4-BROMOPHENYL PHENYL ETHER
430U	HEXACHLOROBENZENE (HCB)
2200U	PENTACHLOROPHENOL
430U	PHENANTHRENE
430U	ANTHRACENE
430U	CARBAZOLE
430U	DI-N-BUTYLPHTHALATE
430U	FLUORANTHENE
430U	PYRENE
430U	BENZYL BUTYL PHTHALATE
430U	3,3'-DICHLOROBENZIDINE
430U	BENZO(A)ANTHRACENE
430U	CHRYSENE
430U	BIS(2-ETHYLHEXYL) PHTHALATE
430U	DI-N-OCTYLPHTHALATE
430U	BENZO(B AND/OR K)FLUORANTHENE
430U	BENZO-A-PYRENE
430U	INDENO (1,2,3-CD) PYRENE
430U	DIBENZO(A,H)ANTHRACENE
430U	BENZO(GHI)PERYLENE
24	PERCENT MOISTURE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA62

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-04

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1145 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA63

UG/KG	ANALYTICAL RESULTS
460U	PHENOL
460U	BIS(2-CHLOROETHYL) ETHER
460U	2-CHLOROPHENOL
460U	1,3-DICHLOROBENZENE
460U	1,4-DICHLOROBENZENE
460U	1,2-DICHLOROBENZENE
460U	2-METHYLPHENOL
460U	2,2'-CHLOROISOPROPYLETHER
460U	(3-AND/OR 4-)METHYLPHENOL
460U	N-NITROSODI-N-PROPYLAMINE
460U	HEXACHLOROETHANE
460U	NITROBENZENE
460U	ISOPHORONE
460U	2-NITROPHENOL
460U	2,4-DIMETHYLPHENOL
460U	BIS(2-CHLOROETHOXY) METHANE
460U	2,4-DICHLOROPHENOL
460U	1,2,4-TRICHLOROBENZENE
460U	NAPHTHALENE
460U	4-CHLOROANILINE
460U	HEXACHLOROBUTADIENE
460U	4-CHLORO-3-METHYLPHENOL
460U	2-METHYLNAPHTHALENE
460U	HEXACHLOROCYCLOPENTADIENE (HCCP)
460U	2,4,6-TRICHLOROPHENOL
2400U	2,4,5-TRICHLOROPHENOL
460U	2-CHLORONAPHTHALENE
2400U	2-NITROANILINE
460U	DIMETHYL PHTHALATE
460U	ACENAPHTHYLENE
460U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2400U	3-NITROANILINE
460U	ACENAPHTHENE
2400U	2,4-DINITROPHENOL
2400U	4-NITROPHENOL
460U	DIBENZOFURAN
460U	2,4-DINITROTOLUENE
460U	DIETHYL PHTHALATE
460U	4-CHLOROPHENYL PHENYL ETHER
460U	FLUORENE
2400U	4-NITROANILINE
2400U	2-METHYL-4,6-DINITROPHENOL
460U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
460U	4-BROMOPHENYL PHENYL ETHER
460U	HEXACHLOROBENZENE (HCB)
2400U	PENTACHLOROPHENOL
460U	PHENANTHRENE
460U	ANTHRACENE
460U	CARBAZOLE
460U	DI-N-BUTYLPHTHALATE
460U	FLUORANTHENE
460U	PYRENE
460U	BENZYL BUTYL PHTHALATE
460U	3,3'-DICHLOROBENZIDINE
460U	BENZO(A)ANTHRACENE
460U	CHRYSENE
460U	BIS(2-ETHYLHEXYL) PHTHALATE
460U	DI-N-OCTYLPHTHALATE
460U	BENZO(B AND/OR K)FLUORANTHENE
460U	BENZO-A-PYRENE
460U	INDENO (1,2,3-CD) PYRENE
460U	DIBENZO(A,H)ANTHRACENE
460U	BENZO(GHI)PERYLENE
30	PERCENT MOISTURE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-02

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00

D. NO.: AA64

UG/KG	ANALYTICAL RESULTS
490U	PHENOL
490U	BIS(2-CHLOROETHYL) ETHER
490U	2-CHLOROPHENOL
490U	1,3-DICHLOROBENZENE
490U	1,4-DICHLOROBENZENE
490U	1,2-DICHLOROBENZENE
490U	2-METHYLPHENOL
490U	2,2'-CHLORDISOPROPYLETHER
490U	(3-AND/OR 4-)METHYLPHENOL
490U	N-NITROSODI-N-PROPYLAMINE
490U	HEXACHLOROETHANE
490U	NITROBENZENE
490U	ISOPHORONE
490U	2-NITROPHENOL
490U	2,4-DIMETHYLPHENOL
490U	BIS(2-CHLOROETHOXY) METHANE
490U	2,4-DICHLOROPHENOL
490U	1,2,4-TRICHLOROBENZENE
490U	NAPHTHALENE
490U	4-CHLOROANILINE
490U	HEXACHLOROBUTADIENE
490U	4-CHLORO-3-METHYLPHENOL
490U	2-METHYLNAPHTHALENE
490U	HEXACHLOROCYCLOPENTADIENE (HCCP)
490U	2,4,6-TRICHLOROPHENOL
2500U	2,4,5-TRICHLOROPHENOL
490U	2-CHLORONAPHTHALENE
2500U	2-NITROANILINE
490U	DIMETHYL PHTHALATE
490U	ACENAPHTHYLENE
490U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2500U	3-NITROANILINE
490U	ACENAPHTHENE
2500U	2,4-DINITROPHENOL
2500U	4-NITROPHENOL
490U	DIBENZOFURAN
490U	2,4-DINITROTOLUENE
490U	DIETHYL PHTHALATE
490U	4-CHLOROPHENYL PHENYL ETHER
490U	FLUORENE
2500U	4-NITROANILINE
2500U	2-METHYL-4,6-DINITROPHENOL
490U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
490U	4-BROMOPHENYL PHENYL ETHER
490U	HEXACHLOROBENZENE (HCB)
2500U	PENTACHLOROPHENOL
490U	PHENANTHRENE
490U	ANTHRACENE
490U	CARBAZOLE
490U	DI-N-BUTYLPHTHALATE
60J	FLUORANTHENE
69J	PYRENE
490U	BENZYL BUTYL PHTHALATE
490U	3,3'-DICHLOROBENZIDINE
490U	BENZO(A)ANTHRACENE
490U	CHRYSENE
490U	BIS(2-ETHYLHEXYL) PHTHALATE
490U	DI-N-OCTYLPHTHALATE
490U	BENZO(B AND/OR K)FLUORANTHENE
490U	BENZO-A-PYRENE
490U	INDENO (1,2,3-CD) PYRENE
490U	DIBENZO(A,H)ANTHRACENE
490U	BENZO(GHI)PERYLENE
34	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA65

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
1J	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA66

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 64443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-03

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1340 STOP: 00/00/00

CASE NO : 15773 SAS NO.: D. NO.: AA67

UG/KG	ANALYTICAL RESULTS
440U	PHENOL
440U	BIS(2-CHLOROETHYL) ETHER
440U	2-CHLOROPHENOL
440U	1,3-DICHLOROBENZENE
440U	1,4-DICHLOROBENZENE
440U	1,2-DICHLOROBENZENE
440U	2-METHYLPHENOL
440U	2,2'-CHLOROISOPROPYLETHER
440U	(3-AND/OR 4-)METHYLPHENOL
440U	N-NITROSODI-N-PROPYLAMINE
440U	HEXACHLOROETHANE
440U	NITROBENZENE
440U	ISOPHORONE
440U	2-NITROPHENOL
440U	2,4-DIMETHYLPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE
440U	2,4-DICHLOROPHENOL
440U	1,2,4-TRICHLOROBENZENE
440U	NAPHTHALENE
440U	4-CHLOROANILINE
440U	HEXACHLOROBUTADIENE
440U	4-CHLORO-3-METHYLPHENOL
440U	2-METHYLNAPHTHALENE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)
440U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
440U	2-CHLORONAPHTHALENE
2300U	2 NITROANILINE
440U	DIMETHYL PHTHALATE
440U	ACENAPHTHYLENE
440U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
440U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
440U	DIBENZOFURAN
440U	2,4-DINITROTOLUENE
440U	DIETHYL PHTHALATE
440U	4-CHLOROPHENYL PHENYL ETHER
440U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	4-BROMOPHENYL PHENYL ETHER
440U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
440U	PHENANTHRENE
440U	ANTHRACENE
440U	CARBAZOLE
440U	DI-N-BUTYLPHTHALATE
440U	FLUORANTHENE
440U	PYRENE
440U	BENZYL BUTYL PHTHALATE
440U	3,3'-DICHLOROBENZIDINE
440U	BENZO(A)ANTHRACENE
440U	CHRYSENE
440U	BIS(2-ETHYLHEXYL) PHTHALATE
440U	DI-N-OCTYLPHTHALATE
440U	BENZO(B AND/OR K)FLUORANTHENE
440U	BENZO-A-PYRENE
440U	INDENO (1,2,3-CD) PYRENE
440U	DIBENZO(A,H)ANTHRACENE
440U	BENZO(GHI)PERYLENE
27	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA68

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-06

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA69

UG/KG	ANALYTICAL RESULTS
440U	PHENOL
440U	BIS(2-CHLOROETHYL) ETHER
440U	2-CHLOROPHENOL
440U	1,3-DICHLOROBENZENE
440U	1,4-DICHLOROBENZENE
440U	1,2-DICHLOROBENZENE
440U	2-METHYLPHENOL
440U	2,2'-CHLORDISOPROPYLETHER
440U	(3-AND/OR 4-)METHYLPHENOL
440U	N-NITROSODI-N-PROPYLAMINE
440U	HEXACHLOROETHANE
440U	NITROBENZENE
440U	ISOPHORONE
440U	2-NITROPHENOL
440U	2,4-DIMETHYLPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE
440U	2,4-DICHLOROPHENOL
440U	1,2,4-TRICHLOROBENZENE
440U	NAPHTHALENE
440U	4-CHLOROANILINE
440U	HEXACHLOROBUTADIENE
440U	4-CHLORO-3-METHYLPHENOL
440U	2-METHYLNAPHTHALENE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)
440U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
440U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
440U	DIMETHYL PHTHALATE
440U	ACENAPHTHYLENE
440U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
440U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
440U	DIBENZOFURAN
440U	2,4-DINITROTOLUENE
440U	DIETHYL PHTHALATE
440U	4-CHLOROPHENYL PHENYL ETHER
440U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	4 BROMOPHENYL PHENYL ETHER
440U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
310J	PHENANTHRENE
51J	ANTHRACENE
440U	CARBAZOLE
440U	DI-N-BUTYLPHTHALATE
410J	FLUORANTHENE
270J	PYRENE
560	BENZYL BUTYL PHTHALATE
440U	3,3'-DICHLOROBENZIDINE
190J	BENZO(A)ANTHRACENE
170J	CHRYSENE
440U	BIS(2-ETHYLHEXYL) PHTHALATE
440U	DI-N-OCTYLPHTHALATE
440U	BENZO(B AND/OR K)FLUORANTHENE
440U	BENZO-A-PYRENE
440U	INDENO (1,2,3-CD) PYRENE
440U	DIBENZO(A,H)ANTHRACENE
440U	BENZO(GHI)PERYLENE
25	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA7Q

UG/KG	ANALYTICAL RESULTS
400U	PHENOL
400U	BIS(2-CHLOROETHYL) ETHER
400U	2-CHLOROPHENOL
400U	1,3-DICHLOROBENZENE
400U	1,4-DICHLOROBENZENE
400U	1,2-DICHLOROBENZENE
400U	2-METHYLPHENOL
400U	2,2'-CHLOROISOPROPYLETHER
400U	(3-AND/OR 4-)METHYLPHENOL
400U	N-NITROSODI-N-PROPYLAMINE
400U	HEXACHLOROETHANE
400U	NITROBENZENE
400U	ISOPHORONE
400U	2-NITROPHENOL
400U	2,4-DIMETHYLPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE
400U	2,4-DICHLOROPHENOL
400U	1,2,4-TRICHLOROBENZENE
400U	NAPHTHALENE
400U	4-CHLOROANILINE
400U	HEXACHLOROBUTADIENE
400U	4-CHLORO-3-METHYLPHENOL
400U	2-METHYLNAPHTHALENE
400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
400U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
400U	2-CHLORONAPHTHALENE
2100U	2-NITROANILINE
67J	DIMETHYL PHTHALATE
400U	ACENAPHTHYLENE
400U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
400U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
400U	DIBENZOFURAN
400U	2,4-DINITROTOLUENE
400U	DIETHYL PHTHALATE
400U	4-CHLOROPHENYL PHENYL ETHER
400U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U	4-BROMOPHENYL PHENYL ETHER
400U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
57J	PHENANTHRENE
400U	ANTHRACENE
400U	CARBAZOLE
400U	DI-N-BUTYLPHTHALATE
85J	FLUORANTHENE
68J	PYRENE
400U	BENZYL BUTYL PHTHALATE
400U	3,3'-DICHLOROBENZIDINE
42J	BENZO(A)ANTHRACENE
400U	CHRYSENE
400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	DI-N-OCTYLPHTHALATE
400U	BENZO(B AND/OR K)FLUORANTHENE
400U	BENZO-A-PYRENE
400U	INDENO (1,2,3-CD) PYRENE
400U	DIBENZO(A,H)ANTHRACENE
400U	BENZO(GHI)PERYLENE
19	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-03

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1230 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA72

UG/KG	ANALYTICAL RESULTS
400U	PHENOL
400U	BIS(2-CHLOROETHYL) ETHER
400U	2-CHLOROPHENOL
400U	1,3-DICHLOROBENZENE
400U	1,4-DICHLOROBENZENE
400U	1,2-DICHLOROBENZENE
400U	2-METHYLPHENOL
400U	2,2'-CHLOROISOPROPYLETHER
400U	(3-AND/OR 4-)METHYLPHENOL
400U	N-NITROSODI-N-PROPYLAMINE
400U	HEXACHLOROETHANE
400U	NITROBENZENE
400U	ISOPHORONE
400U	2-NITROPHENOL
400U	2,4-DIMETHYLPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE
400U	2,4-DICHLOROPHENOL
400U	1,2,4-TRICHLOROBENZENE
400U	NAPHTHALENE
400U	4-CHLOROANILINE
400U	HEXACHLOROBUTADIENE
400U	4-CHLORO-3-METHYLPHENOL
400U	2-METHYLNAPHTHALENE
400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
400U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
400U	2-CHLORONAPHTHALENE
2100U	2-NITROANILINE
400U	DIMETHYL PHTHALATE
400U	ACENAPHTHYLENE
400U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
400U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
400U	DIBENZOFURAN
400U	2,4-DINITROTOLUENE
400U	DIETHYL PHTHALATE
400U	4-CHLOROPHENYL PHENYL ETHER
400U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U	4-BROMOPHENYL PHENYL ETHER
400U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
400U	PHENANTHRENE
400U	ANTHRACENE
400U	CARBAZOLE
400U	DI-N-BUTYLPHTHALATE
400U	FLUORANTHENE
400U	PYRENE
400U	BENZYL BUTYL PHTHALATE
400U	3,3'-DICHLOROBENZIDINE
400U	BENZO(A)ANTHRACENE
400U	CHRYSENE
400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	DI-N-OCTYLPHTHALATE
400U	BENZO(B AND/OR K)FLUORANTHENE
400U	BENZO-A-PYRENE
400U	INDENO (1,2,3-CD) PYRENE
400U	DIBENZO(A,H)ANTHRACENE
400U	BENZO(GHI)PERYLENE
19	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA74

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D NO.: AA75

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

QUALIFIERS
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. S4456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: O. NO.: AA50

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266	SAMPLE NO. 54428 SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF		CITY: DICKSON ST: TN
STATION ID: SS-01		COLLECTION START: 01/28/91 1515 STOP: 00/00/00
CASE.NO.: 15773	SAS NO.:	D. NO.: AA52 MD NO: AA52

ANALYTICAL RESULTS UG/KG

3000J 2 UNIDENTIFIED COMPOUNDS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-01
CASE.NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1530 STOP: 00/00/00
D. NO.: AA53 MD NO: AA53

ANALYTICAL RESULTS UG/KG

800J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-01
CASE.NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00
D. NO.: AA54 MD NO: AA54

ANALYTICAL RESULTS UG/KG

5000J	3 UNIDENTIFIED COMPOUNDS
200JN	HEXADECANOIC ACID

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA65 MD NO: AA56

ANALYTICAL RESULTS UG/KG

800J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54435 SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF	CITY: DICKSON ST: TN
STATION ID: SD-01	COLLECTION START: 01/29/91 1030 STOP: 00/00/00
CASE NO.: 15773 SAS NO.:	D. NO.: AA59 MD NO: AA59

ANALYTICAL RESULTS UG/KG

6000J 3 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266	SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF		CITY: DICKSON ST: TN
STATION ID: SW-05		COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE.NO.: 15773	SAS NO.:	D. NO.: AA60 MD NO: AA60

ANALYTICAL RESULTS UG/L

4JN	DIETHYLMETHYLBENZAMIDE
4JN	BENZOTHIAZOLONE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF	CITY: DICKSON ST: TN
STATION ID: SD-05	COLLECTION START: 01/29/91 1130 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.:	D. NO.: AA61 MD NO: AA61

ANALYTICAL RESULTS UG/KG

4000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-04
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1145 STOP: 00/00/00
D. NO.: AA63 MD NO: AA63

ANALYTICAL RESULTS UG/KG

2000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-02
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00
D. NO.: AA64 MD NO: AA64

ANALYTICAL RESULTS UG/KG

5000J 4 UNIDENTIFIED COMPOUNDS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA65 MD NO: AA65

ANALYTICAL RESULTS UG/L

30JN	DIMETHYLPROPANEDIOL
5JN	CYCLOHEXANECARBOXYLIC ACID
6JN	DIETHYLMETHYLBENZAMIDE
20J	1 UNIDENTIFIED COMPOUND

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 64443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-03
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1340 STOP: 00/00/00
D. NO.: AA67 MD NO: AA67

ANALYTICAL RESULTS UG/KG

900J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 64445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-06
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00
D. NO.: AA69 MD NO: AA69

ANALYTICAL RESULTS UG/KG

7000J	8 UNIDENTIFIED COMPOUNDS
N	PETROLEUM PRODUCT
200JN	TRIBROMOPHENOL (NOT 2,4,6-)

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00
D. NO.: AA70 MD NO: AA70

ANALYTICAL RESULTS UG/KG

900J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-03
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1230 STOP: 00/00/00
D. NO.: AA72 MD NO: AA72

ANALYTICAL RESULTS UG/KG

10000J 10 UNIDENTIFIED COMPOUNDS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-03
CASE.NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00
D. NO.: AA73 MD NO: AA73

ANALYTICAL RESULTS UG/KG

4000J	2 UNIDENTIFIED COMPOUNDS
N	PETROLEUM PRODUCT

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-03
CASE.NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00
D. NO.: AA73 MD NO: AA73

ANALYTICAL RESULTS UG/KG

4000J	2 UNIDENTIFIED COMPOUNDS
N	PETROLEUM PRODUCT

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D NO.: AA74 MD NO: AA74

ANALYTICAL RESULTS UG/L

40J	2 UNIDENTIFIED COMPOUNDS
500JN	AMINOHEXANOIC ACID
10JN	BUTYLIDENEBIS[(DIMETHYLETHYL)METHYL]PHENOL

REMARKS ***REMARKS***
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266	SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF		CITY: DICKSON ST: TN
STATION ID: MW-02		COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NO.: 15773	SAS NO.:	D. NO.: AA76 WO NO: AA75

ANALYTICAL RESULTS UG/L

20JN AMINOHEXANOIC ACID

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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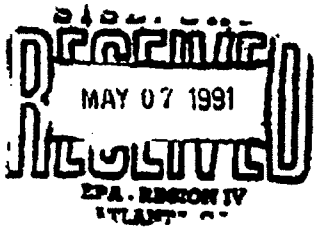
SITE DICKSON CO. LF (FIT) STATE TN MANAGER ROGER FRANKLIN (NUS)
PROJECT # 91-266 SHIPWEEK 01/28/91

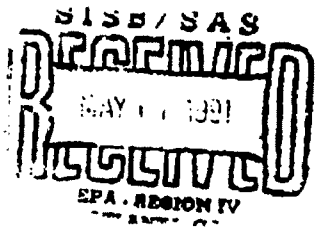
SOILVOA BOOKED	22	DATA RECEIVED	05/06/91	FOR	16	SAMPLES
H2OVOA BOOKED	13	DATA RECEIVED	05/06/91	FOR	10	SAMPLES
SOILEXT BOOKED	21	DATA RECEIVED	05/06/91	FOR	15	SAMPLES
H2OEXT BOOKED	13	DATA RECEIVED	05/06/91	FOR	10	SAMPLES
SOILPEST BOOKED	21	DATA RECEIVED	05/06/91	FOR	15	SAMPLES
H2OPEST BOOKED	13	DATA RECEIVED	05/06/91	FOR	10	SAMPLES
SOILMET BOOKED	21	DATA RECEIVED	03/25/91	FOR	15	SAMPLES
H2OMET BOOKED	13	DATA RECEIVED	03/25/91	FOR	10	SAMPLES
SOILCN BOOKED	21	DATA RECEIVED	03/25/91	FOR	15	SAMPLES
H2OCN BOOKED	13	DATA RECEIVED	03/25/91	FOR	10	SAMPLES
SOILOTH1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
SOILOTH2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
H2OOTH1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
H2OOTH2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
OTHER1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
OTHER2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES

LAB(CLP/ESD) CLP

REMARKS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV
Environmental Services Division
College Station Road, Athens, Ga. 30613



*****MEMORANDUM******

DATE: 05/01/91

SUBJECT: Results of Pesticide/PCB Analysis;
91-266 DICKSON CO. LF
DICKSON TN
CASE NO: 15773

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

ORGANIC DATA QUALIFIER REPORT

Case Number 15773 Project Number 91-266 SAS Number

Site ID. Dickson Co. LF., Dickson, TN.

Affected Samples	Compound or Fraction	Flag Used	Reason
Volatiles			
54441	4-methyl-2-pentanone	J	<quantitation limit
	toluene	J	<quantitation limit
	xylenes	J	<quantitation limit
54433	1,2-dichloroethene	J	<quantitation limit
Extractables			
all water samples	chrysene	J	low recovery blind spike
54432	all extractables	J	excessive holding time
54430,54440,54441, 54446,54449	all positives	J	<quantitation limit
54445	phenanthrene	J	<quantitation limit
	anthracene	J	<quantitation limit
	fluoranthene	J	<quantitation limit
	pyrene	J	<quantitation limit
	benzo(a)anthracene	J	<quantitation limit
	chrysene	J	<quantitation limit
54434,54444,54450, 54451	all extractables	J	exceeded 40CFR136 holding time
Pesticides			
54456	all pesticides	J	exceeded 40CFR136 holding time
54448	4,4'-DDE	J	excessive holding time; detected
	4,4'-DDD	J	excessive holding time; detected
	4,4'-DDT	J	excessive holding time; detected
	all other persicides	R	excessive holding time

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1515 STOP: 00/00/00
D. NUMBER: AA52

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
1.6J	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
2.2U	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.3U	DIELDRIN
4.3U	4,4'-DDE (P,P'-DDE)
4.3U	ENDRIN
4.3U	ENDOSULFAN II (BETA)
4.3U	4,4'-DDD (P,P'-DDD)
4.3U	ENDOSULFAN SULFATE
4.3U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.3U	ENDRIN KETONE
4.3U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.2U	GAMMA-CHLORDANE /2
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
43U	PCB-1016 (AROCLOR 1016)
43U	PCB-1221 (AROCLOR 1221)
87U	PCB-1232 (AROCLOR 1232)
43U	PCB-1242 (AROCLOR 1242)
43U	PCB-1248 (AROCLOR 1248)
43U	PCB-1254 (AROCLOR 1254)
43U	PCB-1260 (AROCLOR 1260)
24	PERCENT MOISTURE

REMARKS ***REMARKS***

FOOTNOTES
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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1530 STOP: 00/00/00
D. NUMBER: AA53

UG/KG	ANALYTICAL RESULTS
2.0U	ALPHA-BHC
2.0U	BETA-BHC
2.0U	DELTA-BHC
2.0U	GAMMA-BHC (LINDANE)
2.0U	HEPTACHLOR
2.0U	ALDRIN
2.0U	HEPTACHLOR EPOXIDE
2.0U	ENDOSULFAN I (ALPHA)
4.0U	DIELDRIN
4.0U	4,4'-DDE (P,P'-DDE)
4.0U	ENDRIN
4.0U	ENDOSULFAN II (BETA)
4.0U	4,4'-DDD (P,P'-DDD)
4.0U	ENDOSULFAN SULFATE
4.0U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
20U	METHOXYCHLOR
4.0U	ENDRIN KETONE
4.0U	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
2.0U	GAMMA-CHLORDANE /2
2.0U	ALPHA-CHLORDANE /2
200U	TOXAPHENE
40U	PCB-1016 (AROCLOR 1016)
40U	PCB-1221 (AROCLOR 1221)
80U	PCB-1232 (AROCLOR 1232)
40U	PCB-1242 (AROCLOR 1242)
40U	PCB-1248 (AROCLOR 1248)
40U	PCB-1254 (AROCLOR 1254)
40U	PCB-1260 (AROCLOR 1260)
18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00
D. NUMBER: AA54

UG/KG	ANALYTICAL RESULTS
2.4U	ALPHA-BHC
2.4U	BETA-BHC
2.4U	DELTA-BHC
2.4U	GAMMA-BHC (LINDANE)
2.4U	HEPTACHLOR
2.4U	ALDRIN
2.4U	HEPTACHLOR EPOXIDE
2.4U	ENDOSULFAN I (ALPHA)
2.4U	DIELDRIN
2.4J	4,4'-DDE (P,P'-DDE)
4.8U	ENDRIN
4.6U	ENDOSULFAN II (BETA)
14	4,4'-DDD (P,P'-DDD)
4.6U	ENDOSULFAN SULFATE
4.6U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
24U	METHOXYCHLOR
4.6U	ENDRIN KETONE
4.6U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
5.4	GAMMA-CHLORDANE /2
2.0J	ALPHA-CHLORDANE /2
240U	TOXAPHENE
46U	PCB-1016 (AROCLOR 1016)
46U	PCB-1221 (AROCLOR 1221)
93U	PCB-1232 (AROCLOR 1232)
46U	PCB-1242 (AROCLOR 1242)
46U	PCB-1248 (AROCLOR 1248)
46U	PCB-1254 (AROCLOR 1254)
46U	PCB-1260 (AROCLOR 1260)
28	PERCENT MOISTURE

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1640 STOP: 00/00/00
D. NUMBER: AA55

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
2.2U	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
2.2U	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.4U	DIELDRIN
4.4U	4,4'-DDE (P,P'-DDE)
4.4U	ENDRIN
4.4U	ENDOSULFAN II (BETA)
4.4U	4,4'-DDD (P,P'-DDD)
4.4U	ENDOSULFAN SULFATE
4.4U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.4U	ENDRIN KETONE
4.4U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.30J	GAMMA-CHLORDANE /2
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
44U	PCB-1016 (AROCLOR 1016)
44U	PCB-1221 (AROCLOR 1221)
88U	PCB-1232 (AROCLOR 1232)
44U	PCB-1242 (AROCLOR 1242)
44U	PCB-1248 (AROCLOR 1248)
44U	PCB-1254 (AROCLOR 1254)
44U	PCB-1260 (AROCLOR 1260)
26	PERCENT MOISTURE

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00
D. NUMBER: AA58

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
2.1U	GAMMA-CHLORDANE /2
2.1U	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
84U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
22	PERCENT MOISTURE

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA57

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA58

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54435 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1030 STOP: 00/00/00
D. NUMBER: AA59

UG/KG	ANALYTICAL RESULTS		UG/KG	ANALYTICAL RESULTS
2.5U	ALPHA-BHC		25U	METHOXYCHLOR
2.5U	BETA-BHC		4.9U	ENDRIN KETONE
2.5U	DELTA-BHC		4.9U	ENDRIN ALDEHYDE
2.5U	GAMMA-BHC (LINDANE)	--		CHLORDANE (TECH. MIXTURE) /1
2.5U	HEPTACHLOR		2.5U	GAMMA-CHLORDANE /2
2.5U	ALDRIN		2.5U	ALPHA-CHLORDANE /2
2.5U	HEPTACHLOR EPOXIDE		250U	TOXAPHENE
2.5U	ENDOSULFAN I (ALPHA)		49U	PCB-1016 (AROCLOR 1016)
4.9U	DIELDRIN		49U	PCB-1221 (AROCLOR 1221)
4.9U	4,4'-DDE (P,P'-DDE)		99U	PCB-1232 (AROCLOR 1232)
4.9U	ENDRIN		49U	PCB-1242 (AROCLOR 1242)
4.9U	ENDOSULFAN II (BETA)		49U	PCB-1248 (AROCLOR 1248)
4.9U	4,4'-DDD (P,P'-DDD)		49U	PCB-1254 (AROCLOR 1254)
4.9U	ENDOSULFAN SULFATE		49U	PCB-1260 (AROCLOR 1260)
4.9U	4,4'-DDT (P,P'-DDT)		34	PERCENT MOISTURE

REMARKS ***REMARKS***

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA60

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS ***REMARKS***

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-05
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1130 STOP: 00/00/00
D. NUMBER: AA61

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
2.2U	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
2.2U	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.3U	DIELDRIN
4.3U	4,4'-DDE (P,P'-DDE)
4.3U	ENDRIN
4.3U	ENDOSULFAN II (BETA)
4.3U	4,4'-DDD (P,P'-DDD)
4.3U	ENDOSULFAN SULFATE
8.0U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.3U	ENDRIN KETONE
4.3U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.2U	GAMMA-CHLORDANE /2
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
43U	PCB-1016 (AROCLOR 1016)
43U	PCB-1221 (AROCLOR 1221)
88U	PCB-1232 (AROCLOR 1232)
43U	PCB-1242 (AROCLOR 1242)
43U	PCB-1248 (AROCLOR 1248)
43U	PCB-1254 (AROCLOR 1254)
43U	PCB-1260 (AROCLOR 1260)
24	PERCENT MOISTURE

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA62

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-286 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-04
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1145 STOP: 00/00/00
D. NUMBER: AA63

UG/KG	ANALYTICAL RESULTS
2.4U	ALPHA-BHC
2.4U	BETA-BHC
2.4U	DELTA-BHC
2.4U	GAMMA-BHC (LINDANE)
2.4U	HEPTACHLOR
2.4U	ALDRIN
2.4U	HEPTACHLOR EPOXIDE
2.4U	ENDOSULFAN I (ALPHA)
4.7U	DIELDRIN
4.7U	4,4'-DDE (P,P'-DDE)
4.7U	ENDRIN
4.7U	ENDOSULFAN II (BETA)
4.7U	4,4'-DDD (P,P'-DDD)
4.7U	ENDOSULFAN SULFATE
4.7U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
24U	METHOXYCHLOR
4.7U	ENDRIN KETONE
4.7U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.4U	GAMMA-CHLORDANE /2
2.4U	ALPHA-CHLORDANE /2
240U	TOXAPHENE
47U	PCB-1016 (AROCLOR 1016)
47U	PCB-1221 (AROCLOR 1221)
95U	PCB-1232 (AROCLOR 1232)
47U	PCB-1242 (AROCLOR 1242)
47U	PCB-1248 (AROCLOR 1248)
47U	PCB-1254 (AROCLOR 1254)
47U	PCB-1260 (AROCLOR 1260)
30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00
D. NUMBER: AA84

UG/KG	ANALYTICAL RESULTS		UG/KG	ANALYTICAL RESULTS	
2.5U	ALPHA-BHC		25U	METHOXYCHLOR	
2.5U	BETA-BHC		4.9U	ENDRIN KETONE	
2.5U	DELTA-BHC		4.9U	ENDRIN ALDEHYDE	
0.42J	GAMMA-BHC (LINDANE)	--		CHLORDANE (TECH. MIXTURE)	/1
2.5U	HEPTACHLOR		1.0J	GAMMA-CHLORDANE	/2
2.5U	ALDRIN		0.28J	ALPHA-CHLORDANE	/2
2.5U	HEPTACHLOR EPOXIDE		250U	TOXAPHENE	
2.5U	ENDOSULFAN I (ALPHA)		49U	PCB-1016 (AROCLOR 1016)	
4.9U	DIELDRIN		49U	PCB-1221 (AROCLOR 1221)	
4.9U	4,4'-DDE (P,P'-DDE)		100U	PCB-1232 (AROCLOR 1232)	
4.9U	ENDRIN		49U	PCB-1242 (AROCLOR 1242)	
4.9U	ENDOSULFAN II (BETA)		49U	PCB-1248 (AROCLOR 1248)	
4.9U	4,4'-DDD (P,P'-DDD)		49U	PCB-1254 (AROCLOR 1254)	
4.9U	ENDOSULFAN SULFATE		49U	PCB-1260 (AROCLOR 1260)	
4.9U	4,4'-DDT (P,P'-DDT)		34	PERCENT MOISTURE	

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1215 STOP: 00/00/00
D. NUMBER: AA65

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.026J	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA66

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1340 STOP: 00/00/00
D. NUMBER: AA67

UG/KG	ANALYTICAL RESULTS
2.3U	ALPHA-BHC
2.3U	BETA-BHC
2.3U	DELTA-BHC
2.3U	GAMMA-BHC (LINDANE)
2.3U	HEPTACHLOR
2.3U	ALDRIN
2.3U	HEPTACHLOR EPOXIDE
2.3U	ENDOSULFAN I (ALPHA)
4.4U	DIELDRIN
4.4U	4,4'-DDE (P,P'-DDE)
4.4U	ENDRIN
4.4U	ENDOSULFAN II (BETA)
4.4U	4,4'-DDD (P,P'-DDD)
4.4U	ENDOSULFAN SULFATE
4.4U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
23U	METHOXYCHLOR
4.4U	ENDRIN KETONE
4.4U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.3U	GAMMA-CHLORDANE /2
2.3U	ALPHA-CHLORDANE /2
230U	TOXAPHENE
44U	PCB-1016 (AROCLOR 1016)
44U	PCB-1221 (AROCLOR 1221)
90U	PCB-1232 (AROCLOR 1232)
44U	PCB-1242 (AROCLOR 1242)
44U	PCB-1248 (AROCLOR 1248)
44U	PCB-1254 (AROCLOR 1254)
44U	PCB-1260 (AROCLOR 1260)
27	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-06
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1440 STOP: 00/00/00
D. NUMBER: AA68

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-06
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00
D. NUMBER: AA89

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
2.2U	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
0.37J	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.3U	DIELDRIN
4.3U	4,4'-DDE (P,P'-DDE)
4.3U	ENDRIN
4.3U	ENDOSULFAN II (BETA)
4.3U	4,4'-DDD (P,P'-DDD)
12U	ENDOSULFAN SULFATE
4.3U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.3U	ENDRIN KETONE
4.3U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
3.1	GAMMA-CHLORDANE /2
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
43U	PCB-1016 (AROCLOR 1016)
43U	PCB-1221 (AROCLOR 1221)
87U	PCB-1232 (AROCLOR 1232)
43U	PCB-1242 (AROCLOR 1242)
43U	PCB-1248 (AROCLOR 1248)
77U	PCB-1254 (AROCLOR 1254)
74U	PCB-1260 (AROCLOR 1260)
25	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00
D. NUMBER: AA70

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
7.2U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.60J	GAMMA-CHLORDANE /2
0.37J	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
82U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 64447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID. SB-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1125 STOP: 00/00/00
D. NUMBER: AA71

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.1U	GAMMA-CHLORDANE /2
2.1U	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
83U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
21	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEIMFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1230 STOP: 00/00/00
D. NUMBER: AA72

UG/KG	ANALYTICAL RESULTS
2.1UR	ALPHA-BHC
2.1UR	BETA-BHC
2.1UR	DELTA-BHC
2.1UR	GAMMA-BHC (LINDANE)
2.1UR	HEPTACHLOR
2.1UR	ALDRIN
2.1UR	HEPTACHLOR EPOXIDE
2.1UR	ENDOSULFAN I (ALPHA)
4.0UR	DIELDRIN
110J	4,4'-DDE (P,P'-DDE)
4.0UR	ENDRIN
4.0UR	ENDOSULFAN II (BETA)
22J	4,4'-DDD (P,P'-DDD)
4.0UR	ENDOSULFAN SULFATE
230J	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21UR	METHOXYCHLOR
4.0UR	ENDRIN KETONE
4.0UR	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.1UR	GAMMA-CHLORDANE /2
2.1UR	ALPHA-CHLORDANE /2
210UR	TOXAPHENE
40UR	PCB-1016 (AROCLOR 1016)
40UR	PCB-1221 (AROCLOR 1221)
81UR	PCB-1232 (AROCLOR 1232)
40UR	PCB-1242 (AROCLOR 1242)
40UR	PCB-1248 (AROCLOR 1248)
40UR	PCB-1254 (AROCLOR 1254)
40UR	PCB-1260 (AROCLOR 1260)
19	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: S8-03
CASE NUMBER: 16773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00
D. NUMBER: AA73

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
3.8U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.8	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
6.0U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
70	GAMMA-CHLORDANE /2
98	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
82U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
20	PERCENT MOISTURE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54460 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA74

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-286 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA76

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: T8-01W
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1300 STOP: 00/00/00
D. NUMBER: AA50

UG/L	ANALYTICAL RESULTS
0.060UJ	ALPHA-BHC
0.050UJ	BETA-BHC
0.050UJ	DELTA-BHC
0.050UJ	GAMMA-BHC (LINDANE)
0.050UJ	HEPTACHLOR
0.050UJ	ALDRIN
0.050UJ	HEPTACHLOR EPOXIDE
0.050UJ	ENDOSULFAN I (ALPHA)
0.10UJ	DIELDRIN
0.10UJ	4,4'-DDE (P,P'-DDE)
0.10UJ	ENDRIN
0.10UJ	ENDOSULFAN II (BETA)
0.10UJ	4,4'-DDD (P,P'-DDD)
0.10UJ	ENDOSULFAN SULFATE
0.10UJ	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50UJ	METHOXYCHLOR
0.10UJ	ENDRIN KETONE
0.10UJ	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050UJ	GAMMA-CHLORDANE /2
0.050UJ	ALPHA-CHLORDANE /2
5.0UJ	TOXAPHENE
1.0UJ	PCB-1016 (AROCLOR 1016)
1.0UJ	PCB-1221 (AROCLOR 1221)
2.0UJ	PCB-1232 (AROCLOR 1232)
1.0UJ	PCB-1242 (AROCLOR 1242)
1.0UJ	PCB-1248 (AROCLOR 1248)
1.0UJ	PCB-1254 (AROCLOR 1254)
1.0UJ	PCB-1260 (AROCLOR 1260)

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
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TND981467673

SITE DICKSON CO. LF (FIT) STATE TN MANAGER ROGER FRANKLIN (NUS)
PROJECT # 91-266 SHIPWEEK 01/28/91

SOILVOA BOOKED	22	DATA RECEIVED	/ /	FOR	0	SAMPLES
H2OVOA BOOKED	13	DATA RECEIVED	/ /	FOR	0	SAMPLES
SOILEXT BOOKED	21	DATA RECEIVED	/ /	FOR	0	SAMPLES
H2OEXT BOOKED	13	DATA RECEIVED	/ /	FOR	0	SAMPLES
SOILPEST BOOKED	21	DATA RECEIVED	/ /	FOR	0	SAMPLES
H2OPEST BOOKED	13	DATA RECEIVED	/ /	FOR	0	SAMPLES
SOILMET BOOKED	21	DATA RECEIVED	03/25/91	FOR	15	SAMPLES
H2OMET BOOKED	13	DATA RECEIVED	03/25/91	FOR	10	SAMPLES
SOILCN BOOKED	21	DATA RECEIVED	03/25/91	FOR	15	SAMPLES
H2OCN BOOKED	13	DATA RECEIVED	03/25/91	FOR	10	SAMPLES
SOILOTH1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
SOILOTH2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
H2OOTH1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
H2OOTH2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
OTHER1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
OTHER2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES

LAB(CLP/ESD) CLP

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV
Environmental Services Division
College Station Road, Athens, Ga. 30613

*****MEMORANDUM******

DATE: 03/15/91

SUBJECT: Results of Metals Analysis;
91-266 DICKSON CO. LF
DICKSON TN
CASE NO: 15773

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

cc:

INORGANIC DATA QUALIFIERS REPORT

Case Number: 15773
Project Number: 91-266
Site: Dickson Co. Lf. Dickson, TN

Element	Flag	Samples Affected	Reason
A. Water			
As, Co, Fe, Pb, Se, Zn	U	All positives > IDL but < CRDL	Baseline instability
Sb, Ca, Na	U	All positives > IDL but < 10x contaminant level	Positives in Blanks
Se	J	All positives	Matrix spike recovery - 199.6%
Pb	J	All	Matrix duplicate RPD - 62.7% Blind spike recovery - 176%
Zn	J	All	Serial dilution percent difference - 16.7%
B. Soils			
As, Co, Fe, Pb, Se, Zn	U	All positives > IDL but < CRDL	Baseline instability
Sb, Na	U	All positives > IDL but < 10x contaminant level	Positives in Blanks
Sb	J R	All positives All negatives	Matrix spike recovery - 0%
As	J	All	Matrix spike recovery - 55% Matrix duplicate RPD - 73.8%
Cr	J	All	Matrix spike recovery - 53.1%
Pb	J R	All positives All negatives	Matrix spike recovery - 27.3% Blind spike recovery - 176%
Se	J R	All positives All negatives	Matrix spike recovery - 18.4%
Al	J	All	Matrix duplicate RPD - 48.1%

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54427 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PB-01 COLLECTION START: 01/28/91 1300 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA50

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
47U	ALUMINUM	1U	MANGANESE
30U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
5U	BARIUM	640U	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
37U	CALCIUM	250U	SODIUM
3U	CHROMIUM	2U	THALLIUM
4U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
4U	IRON	3UJ	ZINC
19J	LEAD		
26U	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-01 COLLECTION START: 01/28/91 1515 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA52

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
13000J	ALUMINUM	520	MANGANESE
7.9UR	ANTIMONY	.12U	MERCURY
6.3J	ARSENIC	8.3	NICKEL
58	BARIUM	560	POTASSIUM
1U	BERYLLIUM	1UJ	SELENIUM
1U	CADMIUM	1U	SILVER
210	CALCIUM	220U	SODIUM
43J	CHROMIUM	.52U	THALLIUM
13	COBALT	NA	TIN
26	COPPER	39	VANADIUM
20000	IRON	32	ZINC
24J	LEAD	24	PERCENT MOISTURE
790	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA53

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
13000J	ALUMINUM	67	MANGANESE
7.2UR	ANTIMONY	.12U	MERCURY
3.7J	ARSENIC	11	NICKEL
35	BARIUM	350	POTASSIUM
1U	BERYLLIUM	1UJ	SELENIUM
1.5	CADMIUM	2U	SILVER
88	CALCIUM	130U	SODIUM
63J	CHROMIUM	.48U	THALLIUM
7U	COBALT	NA	TIN
16	COPPER	49	VANADIUM
40000	IRON	35	ZINC
14J	LEAD	18	PERCENT MOISTURE
420	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: WO NUMBER: AA54

MG/KG	ANALYTICAL RESULTS
9300J	ALUMINUM
8.5UR	ANTIMONY
5.3J	ARSENIC
53	BARIUM
1U	BERYLLIUM
1U	CADMIUM
4500	CALCIUM
37J	CHROMIUM
6U	COBALT
40	COPPER
27000	IRON
49J	LEAD
720	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
320	MANGANESE
.13U	MERCURY
9.5	NICKEL
430	POTASSIUM
.56UR	SELENIUM
1.1U	SILVER
210U	SODIUM
.56U	THALLIUM
NA	TIN
43	VANADIUM
180	ZINC
29	PERCENT MOISTURE

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-02
CASE NUMBER: 16773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1640 STOP: 00/00/00
MD NUMBER: AA65

MG/KG	ANALYTICAL RESULTS
15000J	ALUMINUM
8.7UR	ANTIMONY
3.6J	ARSENIC
31	BARIUM
1U	BERYLLIUM
.58U	CADMIUM
1000	CALCIUM
31J	CHROMIUM
5U	COBALT
29	COPPER
28000	IRON
12J	LEAD
780	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
47	MANGANESE
.12U	MERCURY
6	NICKEL
1000	POTASSIUM
.58UR	SELENIUM
1.2U	SILVER
3300	SODIUM
.58U	THALLIUM
NA	TIN
43	VANADIUM
34	ZINC
31	PERCENT MOISTURE

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54432 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA56

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
13000	ALUMINUM	95	MANGANESE
8.2UR	ANTIMONY	.13U	MERCURY
4.4J	ARSENIC	6.8	NICKEL
32	BARIUM	520	POTASSIUM
1U	BERYLLIUM	.55UR	SELENIUM
1U	CADMIUM	1.1U	SILVER
380	CALCIUM	190U	SODIUM
31J	CHROMIUM	.55U	THALLIUM
4U	COBALT	NA	TIN
17	COPPER	41	VANADIUM
25000	IRON	27	ZINC
11J	LEAD	27	PERCENT MOISTURE
530	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA58

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
84	ALUMINUM	5U	MANGANESE
30U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
17	BARIUM	640U	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
22000	CALCIUM	1600U	SODIUM
3U	CHROMIUM	2U	THALLIUM
3U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
40U	IRON	30J	ZINC
5UJ	LEAD		
2100	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/28/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA57

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
47U	ALUMINUM	2U	MANGANESE
30U	ANTIMONY	.20U	MERCURY
4U	ARSENIC	9U	NICKEL
8U	BARIUM	640U	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
43000	CALCIUM	1900U	SODIUM
3U	CHROMIUM	2U	THALLIUM
3U	COBALT	NA	TIN
11	COPPER	2U	VANADIUM
20U	IRON	230J	ZINC
11J	LEAD		
5000	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA80

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
47U	ALUMINUM	460	MANGANESE
30U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
70	BARIUM	15000	POTASSIUM
1U	BERYLLIUM	4UJ	SELENIUM
2U	CADMIUM	4U	SILVER
35000	CALCIUM	62000	SODIUM
3U	CHROMIUM	2U	THALLIUM
4U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
530	IRON	4UJ	ZINC
6J	LEAD		
12000	MAGNESIUM		

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA59

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
4500J	ALUMINUM	830	MANGANESE
9UR	ANTIMONY	.15U	MERCURY
4.4J	ARSENIC	13	NICKEL
58	BARIUM	230	POTASSIUM
1U	BERYLLIUM	.60UR	SELENIUM
1	CADMIUM	1.2U	SILVER
1600	CALCIUM	140U	SODIUM
38J	CHROMIUM	.60U	THALLIUM
20U	COBALT	NA	TIN
17	COPPER	25	VANADIUM
19000	IRON	56	ZINC
12J	LEAD	34	PERCENT MOISTURE
250	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. S4437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-05
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1130 STOP: 00/00/00
MD NUMBER: AA61

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
8300J	ALUMINUM	100	MANGANESE
8.5UR	ANTIMONY	.14U	MERCURY
2UJ	ARSENIC	2.6U	NICKEL
25	BARIUM	300	POTASSIUM
1U	BERYLLIUM	.57UR	SELENIUM
.57U	CADMIUM	1.1U	SILVER
500	CALCIUM	1600	SODIUM
29J	CHROMIUM	.57U	THALLIUM
4U	COBALT	NA	TIN
15	COPPER	34	VANADIUM
25000	IRON	18	ZINC
8.6J	LEAD	30	PERCENT MOISTURE
350	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA62

UG/L	ANALYTICAL RESULTS
2000	ALUMINUM
30U	ANTIMONY
3U	ARSENIC
63	BARIUM
1U	BERYLLIUM
2U	CADMIUM
9700	CALCIUM
3U	CHROMIUM
20U	COBALT
3U	COPPER
11000	IRON
7J	LEAD
3100	MAGNESIUM

UG/L	ANALYTICAL RESULTS
1800	MANGANESE
.20U	MERCURY
9U	NICKEL
1500	POTASSIUM
2UJ	SELENIUM
4U	SILVER
41000	SODIUM
2U	THALLIUM
NA	TIN
6	VANADIUM
26J	ZINC

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA63

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
8500J	ALUMINUM	460	MANGANESE
8.5UR	ANTIMONY	.14U	MERCURY
5.2J	ARSENIC	6.5	NICKEL
66	BARIUM	300	POTASSIUM
1U	BERYLLIUM	.57UR	SELENIUM
1U	CADMIUM	1.1U	SILVER
1400	CALCIUM	150U	SODIUM
26J	CHROMIUM	.57U	THALLIUM
8U	COBALT	NA	TIN
19	COPPER	29	VANADIUM
22000	IRON	43	ZINC
26J	LEAD	29	PERCENT MOISTURE
710	MAGNESIUM		

REMARKS ***REMARKS***

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MO NUMBER: AA63

MG/KG	ANALYTICAL RESULTS
8500J	ALUMINUM
8.5UR	ANTIMONY
5.2J	ARSENIC
66	BARIUM
1U	BERYLLIUM
1U	CADMIUM
1400	CALCIUM
26J	CHROMIUM
8U	COBALT
19	COPPER
22000	IRON
20J	LEAD
710	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
460	MANGANESE
.14U	MERCURY
6.5	NICKEL
300	POTASSIUM
.57UR	SELENIUM
1.1U	SILVER
150U	SODIUM
.57U	THALLIUM
NA	TIN
29	VANADIUM
43	ZINC
29	PERCENT MOISTURE

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00
MD NUMBER: AA64

MG/KG	ANALYTICAL RESULTS
18000J	ALUMINUM
12UR	ANTIMONY
5.6J	ARSENIC
60	BARIUM
1U	BERYLLIUM
1U	CADMIUM
1600	CALCIUM
37J	CHROMIUM
7U	COBALT
25	COPPER
26000	IRON
15J	LEAD
1200	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
200	MANGANESE
.19U	MERCURY
13	NICKEL
840	POTASSIUM
.80UR	SELENIUM
1.6U	SILVER
290U	SODIUM
.80U	THALLIUM
NA	TIN
52	VANADIUM
53	ZINC
50	PERCENT MOISTURE

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: NO NUMBER: AA65

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
570	ALUMINUM	3200	MANGANESE
30U	ANTIMONY	20U	MERCURY
3U	ARSENIC	9U	NICKEL
130	BARIUM	14000	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
48000	CALCIUM	56000	SODIUM
3U	CHROMIUM	2U	THALLIUM
20U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
10000	IRON	20UJ	ZINC
5J	LEAD		
16000	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA85

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
570	ALUMINUM	3200	MANGANESE
30U	ANTIMONY	20U	MERCURY
3U	ARSENIC	9U	NICKEL
130	BARIUM	14000	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
48000	CALCIUM	56000	SODIUM
3U	CHROMIUM	2U	THALLIUM
20U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
10000	IRON	20UJ	ZINC
5J	LEAD		
16000	MAGNESIUM		

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MO NUMBER: AA68

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
63	ALUMINUM	5U	MANGANESE
40U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
16	BARIUM	640U	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
23000	CALCIUM	1600U	SODIUM
3U	CHROMIUM	2U	THALLIUM
3U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
60U	IRON	30J	ZINC
30J	LEAD		
2700	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA66

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
63	ALUMINUM	5U	MANGANESE
40U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
16	BARIUM	640U	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
23000	CALCIUM	1600U	SODIUM
3U	CHROMIUM	2U	THALLIUM
3U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
60U	IRON	30J	ZINC
3UJ	LEAD		
2700	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
CASE NUMBER: 16773 SAS NUMBER: MD NUMBER: AA57

MG/KG	ANALYTICAL RESULTS
2500J	ALUMINUM
8UR	ANTIMONY
2.8J	ARSENIC
26	BARIUM
1U	BERYLLIUM
1U	CADMIUM
1500	CALCIUM
31J	CHROMIUM
29	COBALT
13	COPPER
14000	IRON
7.3J	LEAD
110	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
880	MANGANESE
.13U	MERCURY
30	NICKEL
170	POTASSIUM
.53UR	SELENIUM
1.1U	SILVER
170U	SODIUM
.53U	THALLIUM
NA	TIN
19	VANADIUM
52	ZINC
26	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA68

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
84	ALUMINUM	17	MANGANESE
30U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
93	BARIUM	4900	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
69000	CALCIUM	12000	SODIUM
3U	CHROMIUM	2U	THALLIUM
3U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
90U	IRON	10UJ	ZINC
20J	LEAD		
11000	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-268 SAMPLE NO. 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA89

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
3700J	ALUMINUM	140	MANGANESE
8.5UR	ANTIMONY	.14U	MERCURY
3.5J	ARSENIC	6.2	NICKEL
17	BARIUM	330	POTASSIUM
1U	BERYLLIUM	.57UR	SELENIUM
1U	CADMIUM	1.1U	SILVER
38000	CALCIUM	290U	SODIUM
33J	CHROMIUM	.57U	THALLIUM
3U	COBALT	NA	TIN
22	COPPER	23	VANADIUM
18000	IRON	40	ZINC
27J	LEAD	30	PERCENT MOISTURE
7100	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-288 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00
MD NUMBER: AA70

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
17000J	ALUMINUM	160	MANGANESE
7.6UR	ANTIMONY	.12U	MERCURY
3.8J	ARSENIC	8.7	NICKEL
53	BARIUM	620	POTASSIUM
1U	BERYLLIUM	.51UR	SELENIUM
2U	CADMIUM	1U	SILVER
1400	CALCIUM	170U	SODIUM
37J	CHROMIUM	.51U	THALLIUM
6U	COBALT	NA	TIN
21	COPPER	46	VANADIUM
29000	IRON	46	ZINC
20J	LEAD	21	PERCENT MOISTURE
980	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-288 SAMPLE NO. 54447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1125 STOP: 00/00/00
MD NUMBER: AA71

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
13000J	ALUMINUM	120	MANGANESE
7.8UR	ANTIMONY	.13U	MERCURY
4.5J	ARSENIC	14	NICKEL
40	BARIUM	570	POTASSIUM
1U	BERYLLIUM	1UJ	SELENIUM
1.4	CADMIUM	2U	SILVER
530	CALCIUM	260U	SODIUM
64J	CHROMIUM	.52U	THALLIUM
6U	COBALT	NA	TIN
18	COPPER	57	VANADIUM
41000	IRON	84	ZINC
10J	LEAD	23	PERCENT MOISTURE
470	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-268 SAMPLE NO. 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA72

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
10000J	ALUMINUM	290	MANGANESE
9.2UR	ANTIMONY	.15U	MERCURY
4.1J	ARSENIC	8.5	NICKEL
86	BARIUM	420	POTASSIUM
1U	BERYLLIUM	.62UR	SELENIUM
2U	CADMIUM	1.2U	SILVER
4200	CALCIUM	1900	SODIUM
31J	CHROMIUM	.62U	THALLIUM
5U	COBALT	NA	TIN
130	COPPER	38	VANADIUM
27000	IRON	110	ZINC
42J	LEAD	35	PERCENT MOISTURE
610	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-03
CASE NUMBER: 15773 SAS NUMBER:
PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00
MD NUMBER: AA73

MG/KG	ANALYTICAL RESULTS
2400J	ALUMINUM
6.9UR	ANTIMONY
2UJ	ARSENIC
70	BARIUM
.23U	BERYLLIUM
1U	CADMIUM
1900	CALCIUM
3.5J	CHROMIUM
2U	COBALT
14	COPPER
7400	IRON
6.5J	LEAD
670	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
91	MANGANESE
.11U	MERCURY
2.1U	NICKEL
180	POTASSIUM
.46UR	SELENIUM
.92U	SILVER
610U	SODIUM
.46U	THALLIUM
NA	TIN
1U	VANADIUM
140	ZINC
13	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA75

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
7600	ALUMINUM	2100	MANGANESE
30U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	29	NICKEL
89	BARIUM	870	POTASSIUM
2U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
35000	CALCIUM	2100U	SODIUM
13	CHROMIUM	2U	THALLIUM
30U	COBALT	NA	TIN
12	COPPER	15	VANADIUM
8800	IRON	87J	ZINC
18J	LEAD		
1600	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA74

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
900	ALUMINUM	130	MANGANESE
40U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
20	BARIUM	2000	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
51000	CALCIUM	41000	SODIUM
11	CHROMIUM	2U	THALLIUM
7U	COBALT	NA	TIN
4U	COPPER	5U	VANADIUM
1600	IRON	120J	ZINC
8J	LEAD		
4500	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
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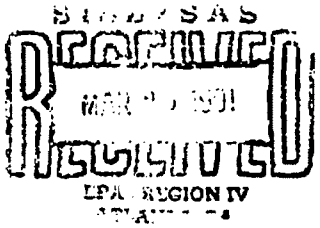
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV
Environmental Services Division
College Station Road, Athens, Ga. 30613



*****MEMORANDUM******

DATE: 03/15/91

SUBJECT: Results of Specified Analysis:
91-266 DICKSON CO. LF
DICKSON TN
CASE NO: 15773

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

INORGANIC DATA QUALIFIERS REPORT

Case Number: 15773
Project Number: 91-266
Site: Dickson Co. Lf. Dickson, TN

Element	Flag	Samples Affected	Reason
A. Water			
As, Co, Fe, Pb, Se, Zn	U	All positives > IDL but < CRDL	Baseline instability
Sb, Ca, Na	U	All positives > IDL but < 10x contaminant level	Positives in Blanks
Se	J	All positives	Matrix spike recovery - 199.6%
Pb	J	All	Matrix duplicate RPD - 62.7% Blind spike recovery - 176%
Zn	J	All	Serial dilution percent difference - 16.7%
B. Soils			
As, Co, Fe, Pb, Se, Zn	U	All positives > IDL but < CRDL	Baseline instability
Sb, Na	U	All positives > IDL but < 10x contaminant level	Positives in Blanks
Sb	J R	All positives All negatives	Matrix spike recovery - 0%
As	J	All	Matrix spike recovery - 55% Matrix duplicate RPD - 73.8%
Cr	J	All	Matrix spike recovery - 53.1%
Pb	J R	All positives All negatives	Matrix spike recovery - 27.3% Blind spike recovery - 176%
Se	J R	All positives All negatives	Matrix spike recovery - 18.4%
Al	J	All	Matrix duplicate RPD - 48.1%

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54427 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PB-01 COLLECTION START: 01/28/91 1300 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: MD NO: AA50

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-01 COLLECTION START: 01/28/91 1616 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA52 MD NO: AA52

RESULTS	UNITS	PARAMETER
2.50U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA53 MD NO: AA53

RESULTS	UNITS	PARAMETER
2.20U	MG/KG	CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-01
CASE NO.: 15773 SAS NO.: COLLECTION START: 01/28/91 1600 STOP: 00/00/00
D. NO.: AA54 MD NO: AA54

RESULTS	UNITS	PARAMETER
2.30U	MG/KG	CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA55 MD NO: AA55

RESULTS	UNITS	PARAMETER
2.6U	MG/KG	CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54432 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA58 MD NO: AA58

RESULTS	UNITS	PARAMETER
2.50U	MG/KG	CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA57 MD NO: AA57

RESULTS	UNITS	PARAMETER
120	UG/L	CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF	CITY: DICKSON ST: TN
STATION ID: SW-01	COLLECTION START: 01/29/91 1010 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.:	D. NO.: AA58 MD NO: AA58

RESULTS	UNITS	PARAMETER
12U	UG/L	CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA59 MD NO: AA59

RESULTS	UNITS	PARAMETER
2.6OU	MG/KG	CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA60 MD NO: AA60

RESULTS	UNITS	PARAMETER
20	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA61 MD NO: AA61

RESULTS	UNITS	PARAMETER
2.5OU	MG/KG	CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA62 MD NO: AA62

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA75 MD NO: AA75

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: MW-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1545 STOP: 00/00/00
D. NUMBER: AA74

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA75

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-286 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA57

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA58

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSP COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA65

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.026J	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/28/91 1330 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA66

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-04
CASE NUMBER: 15773 SAS NUMBER:
PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1140 STOP: 00/00/00
D. NUMBER: AA62

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-05
CASE NUMBER: 15773 SAS NUMBER:
PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1110 STOP: 00/00/00
D. NUMBER: AA60

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4' DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB 1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA68

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: T8-O1W COLLECTION START: 01/28/91 1300 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA50

UG/L	ANALYTICAL RESULTS
0.050UJ	ALPHA-BHC
0.050UJ	BETA-BHC
0.050UJ	DELTA-BHC
0.050UJ	GAMMA-BHC (LINDANE)
0.050UJ	HEPTACHLOR
0.050UJ	ALDRIN
0.050UJ	HEPTACHLOR EPOXIDE
0.050UJ	ENDOSULFAN I (ALPHA)
0.10UJ	DIELDRIN
0.10UJ	4,4'-DDE (P,P'-DDE)
0.10UJ	ENDRIN
0.10UJ	ENDOSULFAN II (BETA)
0.10UJ	4,4'-DDD (P,P'-DDD)
0.10UJ	ENDOSULFAN SULFATE
0.10UJ	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50UJ	METHOXYCHLOR
0.10UJ	ENDRIN KETONE
0.10UJ	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050UJ	GAMMA-CHLORDANE /2
0.050UJ	ALPHA-CHLORDANE /2
5.0UJ	TOXAPHENE
1.0UJ	PCB-1016 (AROCLOR 1016)
1.0UJ	PCB-1221 (AROCLOR 1221)
2.0UJ	PCB-1232 (AROCLOR 1232)
1.0UJ	PCB-1242 (AROCLOR 1242)
1.0UJ	PCB-1248 (AROCLOR 1248)
1.0UJ	PCB-1254 (AROCLOR 1254)
1.0UJ	PCB-1260 (AROCLOR 1260)

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA74 MD NO: AA74

ANALYTICAL RESULTS UG/L

40J	2 UNIDENTIFIED COMPOUNDS
500JN	AMINOHEXANOIC ACID
10JN	BUTYLIDENEBIS[(DIMETHYLETHYL)METHYL]PHENOL

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA75 MD NO: AA75

ANALYTICAL RESULTS UG/L

20 JN AMINOHEXANOIC ACID

REMARKS ***REMARKS***
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA65 MD NO: AA65

ANALYTICAL RESULTS UG/L

30JN	DIMETHYLPROPANEDIOL
5JN	CYCLOHEXANECARBOXYLIC ACID
6JN	DIETHYLMETHYLBENZAMIDE
20J	1 UNIDENTIFIED COMPOUND

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA60 MD NO: AA60

ANALYTICAL RESULTS UG/L

4JN	DIETHYLMETHYLBENZAMIDE
4JN	BENZOTHIAZOLONE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA74

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: MW-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1610 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA75

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

CODINDIES
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EXTRACTABLE ORGANICS DATA REPORT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

PROJECT NO: 91-286 SAMPLE NO: 54433 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: PW-01
CASE NO.: 15773

PROG ELEM: NSF COLLECTED BY: G BEINFIELD 04/23/91
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 0900 STOP: 00/00/00

D. NO.: AA57 SAS NO.:

UG/L ANALYTICAL RESULTS UG/L

10U	PHENOL	50U	3-NITROANILINE
10U	BIS(2-CHLOROETHYL) ETHER	10U	ACENAPHTHENE
10U	2-CHLOROPHENOL	50U	2,4-DINITROPHENOL
10U	1,3-DICHLOROBENZENE	10U	4-NITROPHENOL
10U	1,4-DICHLOROBENZENE	10U	DIBENZOFURAN
10U	1,2-DICHLOROBENZENE	10U	2,4-DINITROTOLUENE
10U	2-METHYLPHENOL	10U	DIETHYL PHTHALATE
10U	2,2'-CHLOROISOPROPYLETHER	10U	4-CHLOROPHENYL PHENYL ETHER
10U	(3-AND/OR 4-)METHYLPHENOL	50U	FLUORENE
10U	N-NITROSODI-N-PROPYLAMINE	50U	4-NITROANILINE
10U	HEXACHLOROETHANE	10U	2-METHYL-4,6-DINITROPHENOL
10U	NITROBENZENE	10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	ISOPHORONE	10U	4-BROMOPHENYL PHENYL ETHER
10U	2-NITROPHENOL	50U	HEXACHLOROBENZENE (HCB)
10U	2,4-DIMETHYLPHENOL	10U	PENTACHLOROPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE	10U	PHENANTHRENE
10U	2,4-DICHLOROPHENOL	10U	ANTHRACENE
10U	1,2,4-TRICHLOROBENZENE	10U	CARBAZOLE
10U	NAPHTHALENE	10U	DI-N-BUTYLPHTHALATE
10U	4-CHLOROANILINE	10U	FLUORANTHENE
10U	HEXACHLOROBUTADIENE	10U	PYRENE
10U	4-CHLORO-3-METHYLPHENOL	10U	BENZYL BUTYL PHTHALATE
10U	2-METHYLNAPHTHALENE	10U	3,3'-DICHLOROBENZIDINE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)	10UJ	BENZO(A)ANTHRACENE
50U	2,4,6-TRICHLOROPHENOL	10U	CHRYSENE
10U	2,4,5-TRICHLOROPHENOL	10U	BIS(2-ETHYLHEXYL) PHTHALATE
50U	2-CHLORONAPHTHALENE	10U	DI-N-OCTYLPHTHALATE
10U	2-NITROANILINE	10U	BENZO(B AND/OR K)FLUORANTHENE
10U	DIMETHYL PHTHALATE	10U	BENZO-A-PYRENE
10U	ACENAPHTHYLENE	10U	INDENO (1,2,3-CD) PYRENE
10U	2,6-DINITROTOLUENE	10U	DIBENZO(A,H)ANTHRACENE
		10U	BENZO(GHI)PERYLENE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA58

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1215 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA85

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
1J	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA66

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-04

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1140 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA62

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA75

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYL CHLORIDE	10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	DIBROMOCHLOROMETHANE
10U	METHYLENE CHLORIDE	10U	1,1,2-TRICHLOROETHANE
20U	ACETONE	10U	BENZENE
10U	CARBON DISULFIDE	10U	TRANS-1,3-DICHLOROPROPENE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U	BROMOFORM
10U	1,1-DICHLOROETHANE	10U	METHYL ISOBUTYL KETONE
10U	1,2-DICHLOROETHENE (TOTAL)	10U	METHYL BUTYL KETONE
10U	CHLOROFORM	10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,2-DICHLOROETHANE	10U	1,1,2,2-TETRACHLOROETHANE
10U	METHYL ETHYL KETONE	10U	TOLUENE
10U	1,1,1-TRICHLOROETHANE	10U	CHLOROBENZENE
10U	CARBON TETRACHLORIDE	10U	ETHYL BENZENE
10U	BROMODICHLOROMETHANE	10U	STYRENE
		10U	TOTAL XYLENES

REMARKS ***REMARKS***

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA57

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
1J	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
26	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA60

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 64444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA68

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *WAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUM AY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-268 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: TB-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA80

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA74

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
60	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLORDETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA58

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA65

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYL CHLORIDE	10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	DIBROMOCHLOROMETHANE
10U	METHYLENE CHLORIDE	10U	1,1,2-TRICHLOROETHANE
80U	ACETONE	10U	BENZENE
10U	CARBON DISULFIDE	10U	TRANS-1,3-DICHLOROPROPENE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U	BROMOFORM
10U	1,1-DICHLOROETHANE	1J	METHYL ISOBUTYL KETONE
10U	1,2-DICHLOROETHENE (TOTAL)	10U	METHYL BUTYL KETONE
10U	CHLOROFORM	10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,2-DICHLOROETHANE	10U	1,1,2,2-TETRACHLOROETHANE
45	METHYL ETHYL KETONE	2J	TOLUENE
10U	1,1,1-TRICHLOROETHANE	10U	CHLOROBENZENE
10U	CARBON TETRACHLORIDE	10U	ETHYL BENZENE
10U	BROMODICHLOROMETHANE	10U	STYRENE
		1J	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA66

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYL CHLORIDE	10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	DIBROMOCHLOROMETHANE
10U	METHYLENE CHLORIDE	10U	1,1,2-TRICHLOROETHANE
10U	ACETONE	10U	BENZENE
10U	CARBON DISULFIDE	10U	TRANS-1,3-DICHLOROPROPENE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U	BROMOFORM
10U	1,1-DICHLOROETHANE	10U	METHYL ISOBUTYL KETONE
10U	1,2-DICHLOROETHENE (TOTAL)	10U	METHYL BUTYL KETONE
10U	CHLOROFORM	10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,2-DICHLOROETHANE	10U	1,1,2,2-TETRACHLOROETHANE
10U	METHYL ETHYL KETONE	10U	TOLUENE
10U	1,1,1-TRICHLOROETHANE	10U	CHLOROBENZENE
10U	CARBON TETRACHLORIDE	10U	ETHYL BENZENE
10U	BROMODICHLOROMETHANE	10U	STYRENE
		10U	TOTAL XYLENES

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA82

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LP
STATION ID: SW-06

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1440 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA68

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1110 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA60

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYL CHLORIDE	10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	DIBROMOCHLOROMETHANE
20U	METHYLENE CHLORIDE	10U	1,1,2-TRICHLOROETHANE
10U	ACETONE	10U	BENZENE
10U	CARBON DISULFIDE	10U	TRANS-1,3-DICHLOROPROPENE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U	BROMOFORM
10U	1,1-DICHLOROETHANE	10U	METHYL ISOBUTYL KETONE
10U	1,2-DICHLOROETHENE (TOTAL)	10U	METHYL BUTYL KETONE
10U	CHLOROFORM	10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,2-DICHLOROETHANE	10U	1,1,2,2-TETRACHLOROETHANE
10U	METHYL ETHYL KETONE	10U	TOLUENE
10U	1,1,1-TRICHLOROETHANE	10U	CHLOROBENZENE
10U	CARBON TETRACHLORIDE	10U	ETHYL BENZENE
10U	BROMODICHLOROMETHANE	10U	STYRENE
		10U	TOTAL XYLENES

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA5O

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20U	METHYLENE CHLORIDE
20U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00
D. NUMBER: AA54

UG/KG	ANALYTICAL RESULTS
2.4U	ALPHA-BHC
2.4U	BETA-BHC
2.4U	DELTA-BHC
2.4U	GAMMA-BHC (LINDANE)
2.4U	HEPTACHLOR
2.4U	ALDRIN
2.4U	HEPTACHLOR EPOXIDE
2.4U	ENDOSULFAN I (ALPHA)
2.4U	DIELDRIN
2.4J	4,4'-DDE (P,P'-DDE)
4.6U	ENDRIN
4.6U	ENDOSULFAN II (BETA)
14	4,4'-DDD (P,P'-DDD)
4.6U	ENDOSULFAN SULFATE
4.6U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
24U	METHOXYCHLOR
4.6U	ENDRIN KETONE
4.6U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
5.4	GAMMA-CHLORDANE /2
2.0J	ALPHA-CHLORDANE /2
240U	TOXAPHENE
46U	PCB-1016 (AROCLOR 1016)
46U	PCB-1221 (AROCLOR 1221)
93U	PCB-1232 (AROCLOR 1232)
46U	PCB-1242 (AROCLOR 1242)
46U	PCB-1248 (AROCLOR 1248)
46U	PCB-1254 (AROCLOR 1254)
46U	PCB-1260 (AROCLOR 1260)
28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1640 STOP: 00/00/00
D. NUMBER: AA55

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
2.2U	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
2.2U	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.4U	DIELDRIN
4.4U	4,4'-DDE (P,P'-DDE)
4.4U	ENDRIN
4.4U	ENDOSULFAN II (BETA)
4.4U	4,4'-DDD (P,P'-DDD)
4.4U	ENDOSULFAN SULFATE
4.4U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.4U	ENDRIN KETONE
4.4U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.30J	GAMMA-CHLORDANE /2
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
44U	PCB-1016 (AROCLOR 1016)
44U	PCB-1221 (AROCLOR 1221)
88U	PCB-1232 (AROCLOR 1232)
44U	PCB-1242 (AROCLOR 1242)
44U	PCB-1248 (AROCLOR 1248)
44U	PCB-1254 (AROCLOR 1254)
44U	PCB-1260 (AROCLOR 1260)
26	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00
D. NUMBER: AA56

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.1U	GAMMA-CHLORDANE /2
2.1U	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
84U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
22	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1530 STOP: 00/00/00
D. NUMBER: AA53

UG/KG	ANALYTICAL RESULTS
2.0U	ALPHA-BHC
2.0U	BETA-BHC
2.0U	DELTA-BHC
2.0U	GAMMA-BHC (LINDANE)
2.0U	HEPTACHLOR
2.0U	ALDRIN
2.0U	HEPTACHLOR EPOXIDE
2.0U	ENDOSULFAN I (ALPHA)
4.0U	DIELDRIN
4.0U	4,4'-DDE (P,P'-DDE)
4.0U	ENDRIN
4.0U	ENDOSULFAN II (BETA)
4.0U	4,4'-DDD (P,P'-DDD)
4.0U	ENDOSULFAN SULFATE
4.0U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
20U	METHOXYCHLOR
4.0U	ENDRIN KETONE
4.0U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.0U	GAMMA-CHLORDANE /2
2.0U	ALPHA-CHLORDANE /2
200U	TOXAPHENE
40U	PCB-1016 (AROCLOR 1016)
40U	PCB-1221 (AROCLOR 1221)
80U	PCB-1232 (AROCLOR 1232)
40U	PCB-1242 (AROCLOR 1242)
40U	PCB-1248 (AROCLOR 1248)
40U	PCB-1254 (AROCLOR 1254)
40U	PCB-1260 (AROCLOR 1260)
18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1125 STOP: 00/00/00
D. NUMBER: AA71

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.1U	GAMMA-CHLORDANE /2
2.1U	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
83U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
21	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00
D. NUMBER: AA73

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
3.8U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.8	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
6.0U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
70	GAMMA-CHLORDANE /2
96	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
82U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
20	PERCENT MOISTURE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54435 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1030 STOP: 00/00/00
D. NUMBER: AA59

UG/KG	ANALYTICAL RESULTS
2.5U	ALPHA-BHC
2.5U	BETA-BHC
2.5U	DELTA-BHC
2.5U	GAMMA-BHC (LINDANE)
2.5U	HEPTACHLOR
2.5U	ALDRIN
2.5U	HEPTACHLOR EPOXIDE
2.5U	ENDOSULFAN I (ALPHA)
4.9U	DIELDRIN
4.9U	4,4'-DDE (P,P'-DDE)
4.9U	ENDRIN
4.9U	ENDOSULFAN II (BETA)
4.9U	4,4'-DDD (P,P'-DDD)
4.9U	ENDOSULFAN SULFATE
4.9U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
25U	METHOXYCHLOR
4.9U	ENDRIN KETONE
4.9U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.5U	GAMMA-CHLORDANE /2
2.5U	ALPHA-CHLORDANE /2
250U	TOXAPHENE
49U	PCB-1016 (AROCLOR 1016)
49U	PCB-1221 (AROCLOR 1221)
99U	PCB-1232 (AROCLOR 1232)
49U	PCB-1242 (AROCLOR 1242)
49U	PCB-1248 (AROCLOR 1248)
49U	PCB-1254 (AROCLOR 1254)
49U	PCB-1260 (AROCLOR 1260)
34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00
D. NUMBER: AA64

UG/KG	ANALYTICAL RESULTS
2.5U	ALPHA-BHC
2.5U	BETA-BHC
2.5U	DELTA-BHC
0.42J	GAMMA-BHC (LINDANE)
2.5U	HEPTACHLOR
2.5U	ALDRIN
2.5U	HEPTACHLOR EPOXIDE
2.5U	ENDOSULFAN I (ALPHA)
4.9U	DIELDRIN
4.9U	4,4'-DDE (P,P'-DDE)
4.9U	ENDRIN
4.9U	ENDOSULFAN II (BETA)
4.9U	4,4'-DDD (P,P'-DDD)
4.9U	ENDOSULFAN SULFATE
4.9U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
25U	METHOXYCHLOR
4.9U	ENDRIN KETONE
4.9U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
1.0J	GAMMA-CHLORDANE /2
0.28J	ALPHA-CHLORDANE /2
250U	TOXAPHENE
49U	PCB-1016 (AROCLOR 1016)
49U	PCB-1221 (AROCLOR 1221)
100U	PCB-1232 (AROCLOR 1232)
49U	PCB-1242 (AROCLOR 1242)
49U	PCB-1248 (AROCLOR 1248)
49U	PCB-1254 (AROCLOR 1254)
49U	PCB-1260 (AROCLOR 1260)
34	PERCENT MOISTURE

REMARKS

REMARKS

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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1340 STOP: 00/00/00
D. NUMBER: AA67

UG/KG	ANALYTICAL RESULTS
2.3U	ALPHA-BHC
2.3U	BETA-BHC
2.3U	DELTA-BHC
2.3U	GAMMA-BHC (LINDANE)
2.3U	HEPTACHLOR
2.3U	ALDRIN
2.3U	HEPTACHLOR EPOXIDE
2.3U	ENDOSULFAN I (ALPHA)
4.4U	DIELDRIN
4.4U	4,4'-DDE (P,P'-DDE)
4.4U	ENDRIN
4.4U	ENDOSULFAN II (BETA)
4.4U	4,4'-DDD (P,P'-DDD)
4.4U	ENDOSULFAN SULFATE
4.4U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
23U	METHOXYCHLOR
4.4U	ENDRIN KETONE
4.4U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.3U	GAMMA-CHLORDANE /2
2.3U	ALPHA-CHLORDANE /2
230U	TOXAPHENE
44U	PCB-1016 (AROCLOR 1016)
44U	PCB-1221 (AROCLOR 1221)
90U	PCB-1232 (AROCLOR 1232)
44U	PCB-1242 (AROCLOR 1242)
44U	PCB-1248 (AROCLOR 1248)
44U	PCB-1254 (AROCLOR 1254)
44U	PCB-1260 (AROCLOR 1260)
27	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-04
CASE NUMBER: 16773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1145 STOP: 00/00/00
D. NUMBER: AA63

UG/KG	ANALYTICAL RESULTS
2.4U	ALPHA-BHC
2.4U	BETA-BHC
2.4U	DELTA-BHC
2.4U	GAMMA-BHC (LINDANE)
2.4U	HEPTACHLOR
2.4U	ALDRIN
2.4U	HEPTACHLOR EPOXIDE
2.4U	ENDOSULFAN I (ALPHA)
4.7U	DIELDRIN
4.7U	4,4'-DDE (P,P'-DDE)
4.7U	ENDRIN
4.7U	ENDOSULFAN II (BETA)
4.7U	4,4'-DDD (P,P'-DDD)
4.7U	ENDOSULFAN SULFATE
4.7U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS	
24U	METHOXYCHLOR	
4.7U	ENDRIN KETONE	
4.7U	ENDRIN ALDEHYDE	
--	CHLORDANE (TECH. MIXTURE)	/1
2.4U	GAMMA-CHLORDANE	/2
2.4U	ALPHA-CHLORDANE	/2
240U	TOXAPHENE	
47U	PCB-1016 (AROCLOR 1016)	
47U	PCB-1221 (AROCLOR 1221)	
95U	PCB-1232 (AROCLOR 1232)	
47U	PCB-1242 (AROCLOR 1242)	
47U	PCB-1248 (AROCLOR 1248)	
47U	PCB-1254 (AROCLOR 1254)	
47U	PCB-1260 (AROCLOR 1260)	
30	PERCENT MOISTURE	

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-05
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1130 STOP: 00/00/00
D. NUMBER: AA61

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
2.2U	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
2.2U	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.3U	DIELDRIN
4.3U	4,4'-DDE (P,P'-DDE)
4.3U	ENDRIN
4.3U	ENDOSULFAN II (BETA)
4.3U	4,4'-DDD (P,P'-DDD)
4.3U	ENDOSULFAN SULFATE
5.0U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.3U	ENDRIN KETONE
4.3U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.2U	GAMMA-CHLORDANE /2
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
43U	PCB-1016 (AROCLOR 1016)
43U	PCB-1221 (AROCLOR 1221)
88U	PCB-1232 (AROCLOR 1232)
43U	PCB-1242 (AROCLOR 1242)
43U	PCB-1248 (AROCLOR 1248)
43U	PCB-1254 (AROCLOR 1254)
43U	PCB-1260 (AROCLOR 1260)
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-08
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00
D. NUMBER: AA69

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
2.2U	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
0.37J	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.3U	DIELDRIN
4.3U	4,4'-DDE (P,P'-DDE)
4.3U	ENDRIN
4.3U	ENDOSULFAN II (BETA)
4.3U	4,4'-DDD (P,P'-DDD)
12U	ENDOSULFAN SULFATE
4.3U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.3U	ENDRIN KETONE
4.3U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
3.1	GAMMA-CHLORDANE /2
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
43U	PCB-1016 (AROCLOR 1016)
43U	PCB-1221 (AROCLOR 1221)
87U	PCB-1232 (AROCLOR 1232)
43U	PCB-1242 (AROCLOR 1242)
43U	PCB-1248 (AROCLOR 1248)
77U	PCB-1254 (AROCLOR 1254)
74U	PCB-1260 (AROCLOR 1260)
25	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1515 STOP: 00/00/00
D. NUMBER: AA52

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
1.6J	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
2.2U	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.3U	DIELDRIN
4.3U	4,4'-DDE (P,P'-DDE)
4.3U	ENDRIN
4.3U	ENDOSULFAN II (BETA)
4.3U	4,4'-DDD (P,P'-DDD)
4.3U	ENDOSULFAN SULFATE
4.3U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.3U	ENDRIN KETONE
4.3U	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
2.2U	GAMMA-CHLORDANE /2
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
43U	PCB-1016 (AROCLOR 1016)
43U	PCB-1221 (AROCLOR 1221)
87U	PCB-1232 (AROCLOR 1232)
43U	PCB-1242 (AROCLOR 1242)
43U	PCB-1248 (AROCLOR 1248)
43U	PCB 1254 (AROCLOR 1254)
43U	PCB-1260 (AROCLOR 1260)
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00
D. NUMBER: AA70

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
7.2U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.60J	GAMMA-CHLORDANE /2
0.37J	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
82U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00
D. NUMBER: AA70

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
7.2U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.60J	GAMMA-CHLORDANE /2
0.37J	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
82U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1230 STOP: 00/00/00
D. NUMBER: AA72

UG/KG	ANALYTICAL RESULTS
2.1UR	ALPHA-BHC
2.1UR	BETA-BHC
2.1UR	DELTA-BHC
2.1UR	GAMMA-BHC (LINDANE)
2.1UR	HEPTACHLOR
2.1UR	ALDRIN
2.1UR	HEPTACHLOR EPOXIDE
2.1UR	ENDOSULFAN I (ALPHA)
4.0UR	DIELDRIN
11OJ	4,4'-DDE (P,P'-DDE)
4.0UR	ENDRIN
4.0UR	ENDOSULFAN II (BETA)
22J	4,4'-DDD (P,P'-DDD)
4.0UR	ENDOSULFAN SULFATE
230J	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21UR	METHOXYCHLOR
4.0UR	ENDRIN KETONE
4.0UR	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.1UR	GAMMA-CHLORDANE /2
2.1UR	ALPHA-CHLORDANE /2
210UR	TOXAPHENE
40UR	PCB-1016 (AROCLOR 1016)
40UR	PCB-1221 (AROCLOR 1221)
81UR	PCB-1232 (AROCLOR 1232)
40UR	PCB-1242 (AROCLOR 1242)
40UR	PCB-1248 (AROCLOR 1248)
40UR	PCB-1254 (AROCLOR 1254)
40UR	PCB-1260 (AROCLOR 1260)
19	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-01
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00
D. NO.: AA54 MD NO: AA54

ANALYTICAL RESULTS UG/KG

5000J	3 UNIDENTIFIED COMPOUNDS
200JN	HEXADECANOIC ACID

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-288	SAMPLE NO. 54431	SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON ST: TN
STATION ID: LS-02			COLLECTION START: 01/28/91 1640 STOP: 00/00/00
CASE NO.: 15773	SAS NO.:		D. NO.: AA55 MD NO: AA55

ANALYTICAL RESULTS UG/KG

800J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54429 SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF	CITY: DICKSON ST: TN
STATION ID: SB-01	COLLECTION START: 01/28/91 1530 STOP: 00/00/00
CASE NO.: 15773 SAS NO.:	D. NO.: AA53 MO NO: AA53

ANALYTICAL RESULTS UG/KG

800J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA73 MD NO: AA73

ANALYTICAL RESULTS UG/KG

4000J	2 UNIDENTIFIED COMPOUNDS
N	PETROLEUM PRODUCT

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA58 MD NO: AA59

ANALYTICAL RESULTS UG/KG

6000J 3 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA64 MD NO: AA64

ANALYTICAL RESULTS UG/KG

5000J 4 UNIDENTIFIED COMPOUNDS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA67 MD NO: AA67

ANALYTICAL RESULTS UG/KG

900J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-04
CASE NO.: 16773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1145 STOP: 00/00/00
D. NO.: AA63 MD NO: AA63

ANALYTICAL RESULTS UG/KG

2000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. S4437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA61 MD NO: AA61

ANALYTICAL RESULTS UG/KG

4000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA69 MO NO: AA69

ANALYTICAL RESULTS UG/KG

7000J	8 UNIDENTIFIED COMPOUNDS
N	PETROLEUM PRODUCT
200JN	TRIBROMOPHENOL (NOT 2,4,6-)

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEIMFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-01 COLLECTION START: 01/28/91 1515 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA52 MD NO: AA52

ANALYTICAL RESULTS UG/KG

3000J 2 UNIDENTIFIED COMPOUNDS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266	SAMPLE NO. 54448 SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF		CITY: DICKSON ST: TN
STATION ID: SS-02		COLLECTION START: 01/30/91 1035 STOP: 00/00/00
CASE NO.: 15773	SAS NO.:	O. NO.: AA70 MD NO: AA70

ANALYTICAL RESULTS UG/KG

900J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA72 MD NO: AA72

ANALYTICAL RESULTS UG/KG

10000J 10 UNIDENTIFIED COMPOUNDS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA. 04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-01
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00
D. NO.: AA54

UG/KG	ANALYTICAL RESULTS
450U	PHENOL
450U	BIS(2-CHLOROETHYL) ETHER
450U	2-CHLOROPHENOL
450U	1,3-DICHLOROBENZENE
450U	1,4-DICHLOROBENZENE
450U	1,2-DICHLOROBENZENE
450U	2-METHYLPHENOL
450U	2,2'-CHLOROISOPROPYLETHER
450U	(3-AND/OR 4-)METHYLPHENOL
450U	N-NITROSODI-N-PROPYLAMINE
450U	HEXACHLOROETHANE
450U	NITROBENZENE
450U	ISOPHORONE
450U	2-NITROPHENOL
450U	2,4-DIMETHYLPHENOL
450U	BIS(2-CHLOROETHOXY) METHANE
450U	2,4-DICHLOROPHENOL
450U	1,2,4-TRICHLOROBENZENE
450U	NAPHTHALENE
450U	4-CHLOROANILINE
450U	HEXACHLOROBUTADIENE
450U	4-CHLORO-3-METHYLPHENOL
450U	2-METHYLNAPHTHALENE
450U	HEXACHLOROCYCLOPENTADIENE (HCCP)
450U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
450U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
77J	DIMETHYL PHTHALATE
450U	ACENAPHTHYLENE
450U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
450U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
450U	DIBENZOFURAN
450U	2,4-DINITROTOLUENE
450U	DIETHYL PHTHALATE
450U	4-CHLOROPHENYL PHENYL ETHER
450U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
450U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
450U	4-BROMOPHENYL PHENYL ETHER
450U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
450U	PHENANTHRENE
450U	ANTHRACENE
450U	CARBAZOLE
81J	DI-N-BUTYLPHTHALATE
450U	FLUORANTHENE
450U	PYRENE
450U	BENZYL BUTYL PHTHALATE
450U	3,3'-DICHLOROBENZIDINE
450U	BENZO(A)ANTHRACENE
450U	CHRYSENE
450U	BIS(2-ETHYLHEXYL) PHTHALATE
450U	DI-N-OCTYLPHTHALATE
450U	BENZO(B AND/OR K)FLUORANTHENE
450U	BENZO-A-PYRENE
450U	INDENO (1,2,3-CD) PYRENE
450U	DIBENZO(A,H)ANTHRACENE
450U	BENZO(GHI)PERYLENE
28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1640 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA55

UG/KG	ANALYTICAL RESULTS
440U	PHENOL
440U	BIS(2-CHLOROETHYL) ETHER
440U	2-CHLOROPHENOL
440U	1,3-DICHLOROBENZENE
440U	1,4-DICHLOROBENZENE
440U	1,2-DICHLOROBENZENE
440U	2-METHYLPHENOL
440U	2,2'-CHLOROISOPROPYLETHER
440U	(3-AND/OR 4-)METHYLPHENOL
440U	N-NITROSODI-N-PROPYLAMINE
440U	HEXACHLOROETHANE
440U	NITROBENZENE
440U	ISOPHORONE
440U	2-NITROPHENOL
440U	2,4-DIMETHYLPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE
440U	2,4-DICHLOROPHENOL
440U	1,2,4-TRICHLOROBENZENE
440U	NAPHTHALENE
440U	4-CHLOROANILINE
440U	HEXACHLOROBUTADIENE
440U	4-CHLORO-3-METHYLPHENOL
440U	2-METHYLNAPHTHALENE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)
440U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
440U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
440U	DIMETHYL PHTHALATE
440U	ACENAPHTHYLENE
440U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
440U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
440U	DIBENZOFURAN
440U	2,4-DINITROTOLUENE
440U	DIETHYL PHTHALATE
440U	4-CHLOROPHENYL PHENYL ETHER
440U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	4-BROMOPHENYL PHENYL ETHER
440U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
440U	PHENANTHRENE
440U	ANTHRACENE
440U	CARBAZOLE
440U	DI-N-BUTYLPHTHALATE
440U	FLUORANTHENE
440U	PYRENE
440U	BENZYL BUTYL PHTHALATE
440U	3,3'-DICHLOROBENZIDINE
440U	BENZO(A)ANTHRACENE
440U	CHRYSENE
440U	BIS(2-ETHYLHEXYL) PHTHALATE
440U	DI-N-OCTYLPHTHALATE
440U	BENZO(B AND/OR K)FLUORANTHENE
440U	BENZO-A-PYRENE
440U	INDENO (1,2,3-CD) PYRENE
440U	DIBENZO(A,H)ANTHRACENE
440U	BENZO(GHI)PERYLENE
26	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-03

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA56

UG/KG	ANALYTICAL RESULTS
420UJ	PHENOL
420UJ	BIS(2-CHLOROETHYL) ETHER
420UJ	2-CHLOROPHENOL
420UJ	1,3-DICHLOROBENZENE
420UJ	1,4-DICHLOROBENZENE
420UJ	1,2-DICHLOROBENZENE
420UJ	2-METHYLPHENOL
420UJ	2,2'-CHLORDISOPROPYLETHER
420UJ	(3-AND/OR 4-)METHYLPHENOL
420UJ	N-NITROSODI-N-PROPYLAMINE
420UJ	HEXACHLOROETHANE
420UJ	NITROBENZENE
420UJ	ISOPHORONE
420UJ	2-NITROPHENOL
420UJ	2,4-DIMETHYLPHENOL
420UJ	BIS(2-CHLOROETHOXY) METHANE
420UJ	2,4-DICHLOROPHENOL
420UJ	1,2,4-TRICHLOROBENZENE
420UJ	NAPHTHALENE
420UJ	4-CHLOROANILINE
420UJ	HEXACHLOROBUTADIENE
420UJ	4-CHLORO-3-METHYLPHENOL
420UJ	2-METHYLNAPHTHALENE
420UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
420UJ	2,4,6-TRICHLOROPHENOL
2200UJ	2,4,5-TRICHLOROPHENOL
420UJ	2-CHLORONAPHTHALENE
2200UJ	2-NITROANILINE
420UJ	DIMETHYL PHTHALATE
420UJ	ACENAPHTHYLENE
420UJ	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200UJ	3-NITROANILINE
420UJ	ACENAPHTHENE
2200UJ	2,4-DINITROPHENOL
2200UJ	4-NITROPHENOL
420UJ	DIBENZOFURAN
420UJ	2,4-DINITROTOLUENE
420UJ	DIETHYL PHTHALATE
420UJ	4-CHLOROPHENYL PHENYL ETHER
420UJ	FLUORENE
2200UJ	4-NITROANILINE
2200UJ	2-METHYL-4,6-DINITROPHENOL
420UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
420UJ	4-BROMOPHENYL PHENYL ETHER
420UJ	HEXACHLOROBENZENE (HCB)
2200UJ	PENTACHLOROPHENOL
420UJ	PHENANTHRENE
420UJ	ANTHRACENE
420UJ	CARBAZOLE
420UJ	DI-N-BUTYLPHTHALATE
420UJ	FLUORANTHENE
420UJ	PYRENE
420UJ	BENZYL BUTYL PHTHALATE
420UJ	3,3'-DICHLOROBENZIDINE
420UJ	BENZO(A)ANTHRACENE
420UJ	CHRYSENE
420UJ	BIS(2-ETHYLHEXYL) PHTHALATE
420UJ	DI-N-OCTYLPHTHALATE
420UJ	BENZO(B AND/OR K)FLUORANTHENE
420UJ	BENZO-A-PYRENE
420UJ	INDENO (1,2,3-CD) PYRENE
420UJ	DIBENZO(A,H)ANTHRACENE
420UJ	BENZO(GHI)PERYLENE
22	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-01

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1530 STOP: 00/00/00

D. NO.: AA53

UG/KG	ANALYTICAL RESULTS
400U	PHENOL
400U	BIS(2-CHLOROETHYL) ETHER
400U	2-CHLOROPHENOL
400U	1,3-DICHLOROBENZENE
400U	1,4-DICHLOROBENZENE
400U	1,2-DICHLOROBENZENE
400U	2-METHYLPHENOL
400U	2,2'-CHLOROISOPROPYLETHER
400U	(3-AND/OR 4-)METHYLPHENOL
400U	N-NITROSODI-N-PROPYLAMINE
400U	HEXACHLOROETHANE
400U	NITROBENZENE
400U	ISOPHORONE
400U	2-NITROPHENOL
400U	2,4-DIMETHYLPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE
400U	2,4-DICHLOROPHENOL
400U	1,2,4-TRICHLOROBENZENE
400U	NAPHTHALENE
400U	4-CHLOROANILINE
400U	HEXACHLOROBUTADIENE
400U	4-CHLORO-3-METHYLPHENOL
400U	2-METHYLNAPHTHALENE
400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
400U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
400U	2-CHLORONAPHTHALENE
2100U	2-NITROANILINE
400U	DIMETHYL PHTHALATE
400U	ACENAPHTHYLENE
400U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
400U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
400U	DIBENZOFURAN
400U	2,4-DINITROTOLUENE
400U	DIETHYL PHTHALATE
400U	4-CHLOROPHENYL PHENYL ETHER
400U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U	4-BROMOPHENYL PHENYL ETHER
400U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
400U	PHENANTHRENE
400U	ANTHRACENE
400U	CARBAZOLE
400U	DI-N-BUTYLPHTHALATE
400U	FLUORANTHENE
400U	PYRENE
400U	BENZYL BUTYL PHTHALATE
400U	3,3'-DICHLOROBENZIDINE
400U	BENZO(A)ANTHRACENE
400U	CHRYSENE
400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	DI-N-OCTYLPHTHALATE
400U	BENZO(B AND/OR K)FLUORANTHENE
400U	BENZO-A-PYRENE
400U	INDENO (1,2,3-CD) PYRENE
400U	DIBENZO(A,H)ANTHRACENE
400U	BENZO(GHI)PERYLENE
18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-268 SAMPLE NO. 54447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF
STATION ID: SB-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1125 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA71

UG/KG	ANALYTICAL RESULTS
410U	PHENOL
410U	BIS(2-CHLOROETHYL) ETHER
410U	2-CHLOROPHENOL
410U	1,3-DICHLOROBENZENE
410U	1,4-DICHLOROBENZENE
410U	1,2-DICHLOROBENZENE
410U	2-METHYLPHENOL
410U	2,2'-CHLORDISOPROPYLETHER
410U	(3-AND/OR 4-)METHYLPHENOL
410U	N-NITROSODI-N-PROPYLAMINE
410U	HEXACHLOROETHANE
410U	NITROBENZENE
410U	ISOPHORONE
410U	2-NITROPHENOL
410U	2,4-DIMETHYLPHENOL
410U	BIS(2-CHLOROETHOXY) METHANE
410U	2,4-DICHLOROPHENOL
410U	1,2,4-TRICHLOROBENZENE
410U	NAPHTHALENE
410U	4-CHLOROANILINE
410U	HEXACHLOROBUTADIENE
410U	4-CHLORO-3-METHYLPHENOL
410U	2-METHYLNAPHTHALENE
410U	HEXACHLOROCYCLOPENTADIENE (HCCP)
410U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
410U	2-CHLORONAPHTHALENE
2100U	2-NITROANILINE
410U	DIMETHYL PHTHALATE
410U	ACENAPHTHYLENE
410U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
410U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
410U	DIBENZOFURAN
410U	2,4-DINITROTOLUENE
410U	DIETHYL PHTHALATE
410U	4-CHLOROPHENYL PHENYL ETHER
410U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
410U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
410U	4-BROMOPHENYL PHENYL ETHER
410U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
410U	PHENANTHRENE
410U	ANTHRACENE
410U	CARBAZOLE
410U	DI-N-BUTYLPHTHALATE
410U	FLUORANTHENE
410U	PYRENE
410U	BENZYL BUTYL PHTHALATE
410U	3,3'-DICHLOROBENZIDINE
410U	BENZO(A)ANTHRACENE
410U	CHRYSENE
410U	BIS(2-ETHYLHEXYL) PHTHALATE
410U	DI-N-OCTYLPHTHALATE
410U	BENZO(B AND/OR K)FLUORANTHENE
410U	BENZO-A-PYRENE
410U	INDENO (1,2,3-CD) PYRENE
410U	DIBENZO(A,H)ANTHRACENE
410U	BENZO(GHI)PERYLENE
21	PERCENT MOISTURE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-03

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA73

UG/KG	ANALYTICAL RESULTS
1600U	PHENOL
1600U	BIS(2-CHLOROETHYL) ETHER
1600U	2-CHLOROPHENOL
1600U	1,3-DICHLOROBENZENE
1600U	1,4-DICHLOROBENZENE
1600U	1,2-DICHLOROBENZENE
1600U	2-METHYLPHENOL
1600U	2,2'-CHLOROISOPROPYLETHER
1600U	(3-AND/OR 4-)METHYLPHENOL
1600U	N-NITROSODI-N-PROPYLAMINE
1600U	HEXACHLOROETHANE
1600U	NITROBENZENE
1600U	ISOPHORONE
1600U	2-NITROPHENOL
1600U	2,4-DIMETHYLPHENOL
1600U	BIS(2-CHLOROETHOXY) METHANE
1600U	2,4-DICHLOROPHENOL
1600U	1,2,4-TRICHLOROBENZENE
200J	NAPHTHALENE
1600U	4-CHLOROANILINE
1600U	HEXACHLOROBUTADIENE
1600U	4-CHLORO-3-METHYLPHENOL
1600U	2-METHYLNAPHTHALENE
1600U	HEXACHLOROCYCLOPENTADIENE (HCCP)
1600U	2,4,6-TRICHLOROPHENOL
8400U	2,4,5-TRICHLOROPHENOL
1600U	2-CHLORONAPHTHALENE
8400U	2 NITROANILINE
1600U	DIMETHYL PHTHALATE
1600U	ACENAPHTHYLENE
1600U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
8400U	3-NITROANILINE
1600U	ACENAPHTHENE
8400U	2,4-DINITROPHENOL
8400U	4-NITROPHENOL
1600U	DIBENZOFURAN
1600U	2,4-DINITROTOLUENE
1600U	DIETHYL PHTHALATE
1600U	4-CHLOROPHENYL PHENYL ETHER
1600U	FLUORENE
8400U	4-NITROANILINE
8400U	2-METHYL-4,6-DINITROPHENOL
1600U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1600U	4-BROMOPHENYL PHENYL ETHER
1600U	HEXACHLOROBENZENE (HCB)
8400U	PENTACHLOROPHENOL
1600U	PHENANTHRENE
1600U	ANTHRACENE
1600U	CARBAZOLE
1600U	DI-N-BUTYLPHTHALATE
1600U	FLUORANTHENE
1600U	PYRENE
1600U	BENZYL BUTYL PHTHALATE
1600U	3,3'-DICHLOROBENZIDINE
1600U	BENZO(A)ANTHRACENE
1600U	CHRYSENE
1600U	BIS(2-ETHYLHEXYL) PHTHALATE
1600U	DI-N-OCTYLPHTHALATE
1600U	BENZO(B AND/OR K)FLUORANTHENE
1600U	BENZO-A-PYRENE
1600U	INDENO (1,2,3-CD) PYRENE
1600U	DIBENZO(A,H)ANTHRACENE
1600U	BENZO(GHI)PERYLENE
20	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1030 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA59

UG/KG	ANALYTICAL RESULTS
500U	PHENOL
500U	BIS(2-CHLOROETHYL) ETHER
500U	2-CHLOROPHENOL
500U	1,3-DICHLOROBENZENE
500U	1,4-DICHLOROBENZENE
500U	1,2-DICHLOROBENZENE
500U	2-METHYLPHENOL
500U	2,2'-CHLOROISOPROPYLETHER
500U	(3-AND/OR 4-)METHYLPHENOL
500U	N-NITROSODI-N-PROPYLAMINE
500U	HEXACHLOROETHANE
500U	NITROBENZENE
500U	ISOPHORONE
500U	2-NITROPHENOL
500U	2,4-DIMETHYLPHENOL
500U	BIS(2-CHLOROETHOXY) METHANE
500U	2,4-DICHLOROPHENOL
500U	1,2,4-TRICHLOROBENZENE
500U	NAPHTHALENE
500U	4-CHLOROANILINE
500U	HEXACHLOROBUTADIENE
500U	4-CHLORO-3-METHYLPHENOL
500U	2-METHYLNAPHTHALENE
500U	HEXACHLOROCYCLOPENTADIENE (HCCP)
500U	2,4,6-TRICHLOROPHENOL
2800U	2,4,5-TRICHLOROPHENOL
500U	2-CHLORONAPHTHALENE
2600U	2-NITROANILINE
500U	DIMETHYL PHTHALATE
500U	ACENAPHTHYLENE
500U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2600U	3-NITROANILINE
500U	ACENAPHTHENE
2600U	2,4-DINITROPHENOL
2600U	4-NITROPHENOL
500U	DIBENZOFURAN
500U	2,4-DINITROTOLUENE
500U	DIETHYL PHTHALATE
500U	4-CHLOROPHENYL PHENYL ETHER
500U	FLUORENE
2600U	4-NITROANILINE
2600U	2-METHYL-4,6-DINITROPHENOL
500U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
500U	4-BROMOPHENYL PHENYL ETHER
500U	HEXACHLOROBENZENE (HCB)
2800U	PENTACHLOROPHENOL
500U	PHENANTHRENE
500U	ANTHRACENE
500U	CARBAZOLE
500U	DI-N-BUTYLPHTHALATE
500U	FLUORANTHENE
500U	PYRENE
500U	BENZYL BUTYL PHTHALATE
500U	3,3'-DICHLOROBENZIDINE
500U	BENZO(A)ANTHRACENE
500U	CHRYSENE
500U	BIS(2-ETHYLHEXYL) PHTHALATE
500U	DI-N-OCTYLPHTHALATE
500U	BENZO(B AND/OR K)FLUORANTHENE
500U	BENZO-A-PYRENE
500U	INDENO (1,2,3-CD) PYRENE
500U	DIBENZO(A,H)ANTHRACENE
500U	BENZO(GHI)PERYLENE
34	PERCENT MOISTURE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA84

UG/KG	ANALYTICAL RESULTS
490U	PHENOL
490U	BIS(2-CHLOROETHYL) ETHER
490U	2-CHLOROPHENOL
490U	1,3-DICHLOROBENZENE
490U	1,4-DICHLOROBENZENE
490U	1,2-DICHLOROBENZENE
490U	2-METHYLPHENOL
490U	2,2'-CHLOROISOPROPYLETHER
490U	(3-AND/OR 4-)METHYLPHENOL
490U	N-NITROSODI-N-PROPYLAMINE
490U	HEXACHLOROETHANE
490U	NITROBENZENE
490U	ISOPHORONE
490U	2-NITROPHENOL
490U	2,4-DIMETHYLPHENOL
490U	BIS(2-CHLOROETHOXY) METHANE
490U	2,4-DICHLOROPHENOL
490U	1,2,4-TRICHLOROBENZENE
490U	NAPHTHALENE
490U	4-CHLOROANILINE
490U	HEXACHLORODBUTADIENE
490U	4-CHLORO-3-METHYLPHENOL
490U	2-METHYLNAPHTHALENE
490U	HEXACHLOROCYCLOPENTADIENE (HCCP)
490U	2,4,6-TRICHLOROPHENOL
2500U	2,4,5-TRICHLOROPHENOL
490U	2-CHLORONAPHTHALENE
2500U	2-NITROANILINE
490U	DIMETHYL PHTHALATE
490U	ACENAPHTHYLENE
490U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2500U	3-NITROANILINE
490U	ACENAPHTHENE
2500U	2,4-DINITROPHENOL
2500U	4-NITROPHENOL
490U	DIBENZOFURAN
490U	2,4-DINITROTOLUENE
490U	DIETHYL PHTHALATE
490U	4-CHLOROPHENYL PHENYL ETHER
490U	FLUORENE
2500U	4-NITROANILINE
2500U	2-METHYL-4,6-DINITROPHENOL
490U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
490U	4-BROMOPHENYL PHENYL ETHER
490U	HEXACHLOROBENZENE (HCB)
2500U	PENTACHLOROPHENOL
490U	PHENANTHRENE
490U	ANTHRACENE
490U	CARBAZOLE
490U	DI-N-BUTYLPHTHALATE
60J	FLUORANTHENE
69J	PYRENE
490U	BENZYL BUTYL PHTHALATE
490U	3,3'-DICHLOROBENZIDINE
490U	BENZO(A)ANTHRACENE
490U	CHRYSENE
490U	BIS(2-ETHYLHEXYL) PHTHALATE
490U	DI-N-OCTYLPHTHALATE
490U	BENZO(B AND/OR K)FLUORANTHENE
490U	BENZO-A-PYRENE
490U	INDENO (1,2,3-CD) PYRENE
490U	DIBENZO(A,H)ANTHRACENE
490U	BENZO(GHI)PERYLENE
34	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-03

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1340 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA67

UG/KG	ANALYTICAL RESULTS
440U	PHENOL
440U	BIS(2-CHLOROETHYL) ETHER
440U	2-CHLOROPHENOL
440U	1,3-DICHLOROBENZENE
440U	1,4-DICHLOROBENZENE
440U	1,2-DICHLOROBENZENE
440U	2-METHYLPHENOL
440U	2,2'-OXYBIS(1-CHLOROPROPANE)
440U	(3-AND/OR 4-)METHYLPHENOL
440U	N-NITROSODI-N-PROPYLAMINE
440U	HEXACHLOROETHANE
440U	NITROBENZENE
440U	ISOPHORONE
440U	2-NITROPHENOL
440U	2,4-DIMETHYLPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE
440U	2,4-DICHLOROPHENOL
440U	1,2,4-TRICHLOROBENZENE
440U	NAPHTHALENE
440U	4-CHLOROANILINE
440U	HEXACHLOROBUTADIENE
440U	4-CHLORO-3-METHYLPHENOL
440U	2-METHYLNAPHTHALENE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)
440U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
440U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
440U	DIMETHYL PHTHALATE
440U	ACENAPHTHYLENE
440U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
440U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
440U	DIBENZOFURAN
440U	2,4-DINITROTOLUENE
440U	DIETHYL PHTHALATE
440U	4-CHLOROPHENYL PHENYL ETHER
440U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	4-BROMOPHENYL PHENYL ETHER
440U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
440U	PHENANTHRENE
440U	ANTHRACENE
440U	CARBAZOLE
440U	DI-N-BUTYLPHTHALATE
440U	FLUORANTHENE
440U	PYRENE
440U	BENZYL BUTYL PHTHALATE
440U	3,3'-DICHLOROBENZIDINE
440U	BENZO(A)ANTHRACENE
440U	CHRYSENE
440U	BIS(2-ETHYLHEXYL) PHTHALATE
440U	DI-N-OCTYLPHTHALATE
440U	BENZO(B AND/OR K)FLUORANTHENE
440U	BENZO-A-PYRENE
440U	INDENO (1,2,3-CD) PYRENE
440U	DIBENZO(A,H)ANTHRACENE
440U	BENZO(GHI)PERYLENE
27	PERCENT MOISTURE

FOOTNOTES
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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-04

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1145 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA63

UG/KG	ANALYTICAL RESULTS
460U	PHENOL
460U	BIS(2-CHLOROETHYL) ETHER
460U	2-CHLOROPHENOL
460U	1,3-DICHLOROBENZENE
460U	1,4-DICHLOROBENZENE
460U	1,2-DICHLOROBENZENE
460U	2-METHYLPHENOL
460U	2,2'-CHLOROISOPROPYLETHER
460U	(3-AND/OR 4-)METHYLPHENOL
460U	N-NITROSODI-N-PROPYLAMINE
460U	HEXACHLOROETHANE
460U	NITROBENZENE
460U	ISOPHORONE
460U	2-NITROPHENOL
460U	2,4-DIMETHYLPHENOL
460U	BIS(2-CHLOROETHOXY) METHANE
460U	2,4-DICHLOROPHENOL
460U	1,2,4-TRICHLORDBENZENE
460U	NAPHTHALENE
460U	4-CHLOROANILINE
460U	HEXACHLOROBUTADIENE
460U	4-CHLORO-3-METHYLPHENOL
460U	2-METHYLNAPHTHALENE
460U	HEXACHLOROCYCLOPENTADIENE (HCCP)
460U	2,4,6-TRICHLOROPHENOL
2400U	2,4,5-TRICHLOROPHENOL
460U	2-CHLORONAPHTHALENE
2400U	2-NITROANILINE
460U	DIMETHYL PHTHALATE
460U	ACENAPHTHYLENE
460U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2400U	3-NITROANILINE
460U	ACENAPHTHENE
2400U	2,4-DINITROPHENOL
2400U	4-NITROPHENOL
460U	DIBENZOFURAN
460U	2,4-DINITROTOLUENE
460U	DIETHYL PHTHALATE
460U	4-CHLOROPHENYL PHENYL ETHER
460U	FLUORENE
2400U	4-NITROANILINE
2400U	2-METHYL-4,6-DINITROPHENOL
460U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
460U	4-BROMOPHENYL PHENYL ETHER
460U	HEXACHLOROBENZENE (HCB)
2400U	PENTACHLOROPHENOL
460U	PHENANTHRENE
460U	ANTHRACENE
460U	CARBAZOLE
460U	DI-N-BUTYLPHTHALATE
460U	FLUORANTHENE
460U	PYRENE
460U	BENZYL BUTYL PHTHALATE
460U	3,3'-DICHLOROBENZIDINE
460U	BENZO(A)ANTHRACENE
460U	CHRYSENE
460U	BIS(2-ETHYLHEXYL) PHTHALATE
460U	DI-N-OCTYLPHTHALATE
460U	BENZO(B AND/OR K)FLUORANTHENE
460U	BENZO-A-PYRENE
460U	INDENO (1,2,3-CD) PYRENE
460U	DIBENZO(A,H)ANTHRACENE
460U	BENZO(GHI)PERYLENE
30	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA61

UG/KG	ANALYTICAL RESULTS
430U	PHENOL
430U	BIS(2-CHLOROETHYL) ETHER
430U	2-CHLOROPHENOL
430U	1,3-DICHLOROBENZENE
430U	1,4-DICHLOROBENZENE
430U	1,2-DICHLOROBENZENE
430U	2-METHYLPHENOL
430U	2,2'-CHLOROISOPROPYLETHER
430U	(3-AND/OR 4-)METHYLPHENOL
430U	N-NITROSODI-N-PROPYLAMINE
430U	HEXACHLOROETHANE
430U	NITROBENZENE
430U	ISOPHORONE
430U	2-NITROPHENOL
430U	2,4-DIMETHYLPHENOL
430U	BIS(2-CHLOROETHOXY) METHANE
430U	2,4-DICHLOROPHENOL
430U	1,2,4-TRICHLOROBENZENE
430U	NAPHTHALENE
430U	4-CHLOROANILINE
430U	HEXACHLOROBUTADIENE
430U	4-CHLORO-3-METHYLPHENOL
430U	2-METHYLNAPHTHALENE
430U	HEXACHLOROCYCLOPENTADIENE (HCCP)
430U	2,4,6-TRICHLOROPHENOL
2200U	2,4,5-TRICHLOROPHENOL
430U	2-CHLORONAPHTHALENE
2200U	2-NITROANILINE
430U	DIMETHYL PHTHALATE
430U	ACENAPHTHYLENE
430U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200U	3-NITROANILINE
430U	ACENAPHTHENE
2200U	2,4-DINITROPHENOL
2200U	4-NITROPHENOL
430U	DIBENZOFURAN
430U	2,4-DINITROTOLUENE
430U	DIETHYL PHTHALATE
430U	4-CHLOROPHENYL PHENYL ETHER
430U	FLUORENE
2200U	4-NITROANILINE
2200U	2-METHYL-4,6-DINITROPHENOL
430U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
430U	4-BROMOPHENYL PHENYL ETHER
430U	HEXACHLOROBENZENE (HCB)
2200U	PENTACHLOROPHENOL
430U	PHENANTHRENE
430U	ANTHRACENE
430U	CARBAZOLE
430U	DI-N-BUTYLPHTHALATE
430U	FLUORANTHENE
430U	PYRENE
430U	BENZYL BUTYL PHTHALATE
430U	3,3'-DICHLOROBENZIDINE
430U	BENZO(A)ANTHRACENE
430U	CHRYSENE
430U	BIS(2-ETHYLHEXYL) PHTHALATE
430U	DI-N-OCTYLPHTHALATE
430U	BENZO(B AND/OR K)FLUORANTHENE
430U	BENZO-A-PYRENE
430U	INDENO (1,2,3-CD) PYRENE
430U	DIBENZO(A,H)ANTHRACENE
430U	BENZO(GHI)PERYLENE
24	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-06

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA69

UG/KG	ANALYTICAL RESULTS
440U	PHENOL
440U	BIS(2-CHLOROETHYL) ETHER
440U	2-CHLOROPHENOL
440U	1,3-DICHLOROBENZENE
440U	1,4-DICHLOROBENZENE
440U	1,2-DICHLOROBENZENE
440U	2-METHYLPHENOL
440U	2,2'-CHLOROISOPROPYLETHER
440U	(3-AND/OR 4-)METHYLPHENOL
440U	N-NITROSODI-N-PROPYLAMINE
440U	HEXACHLOROETHANE
440U	NITROBENZENE
440U	ISOPHORONE
440U	2-NITROPHENOL
440U	2,4-DIMETHYLPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE
440U	2,4-DICHLOROPHENOL
440U	1,2,4-TRICHLOROBENZENE
440U	NAPHTHALENE
440U	4-CHLOROANILINE
440U	HEXACHLOROBUTADIENE
440U	4-CHLORO-3-METHYLPHENOL
440U	2-METHYLNAPHTHALENE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)
440U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
440U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
440U	DIMETHYL PHTHALATE
440U	ACENAPHTHYLENE
440U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
440U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
440U	DIBENZOFURAN
440U	2,4-DINITROTOLUENE
440U	DIETHYL PHTHALATE
440U	4-CHLOROPHENYL PHENYL ETHER
440U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	4-BROMOPHENYL PHENYL ETHER
440U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
310J	PHENANTHRENE
51J	ANTHRACENE
440U	CARBAZOLE
440U	DI-N-BUTYLPHTHALATE
410J	FLUORANTHENE
270J	PYRENE
560	BENZYL BUTYL PHTHALATE
440U	3,3'-DICHLOROBENZIDINE
190J	BENZO(A)ANTHRACENE
170J	CHRYSENE
440U	BIS(2-ETHYLHEXYL) PHTHALATE
440U	DI-N-OCTYLPHTHALATE
440U	BENZO(B AND/OR K)FLUORANTHENE
440U	BENZO-A-PYRENE
440U	INDENO (1,2,3-CD) PYRENE
440U	DIBENZO(A,H)ANTHRACENE
440U	BENZO(GHI)PERYLENE
25	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA. 04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00

D. NO.: AA70

UG/KG	ANALYTICAL RESULTS
400U	PHENOL
400U	BIS(2-CHLOROETHYL) ETHER
400U	2-CHLOROPHENOL
400U	1,3-DICHLOROBENZENE
400U	1,4-DICHLOROBENZENE
400U	1,2-DICHLOROBENZENE
400U	2-METHYLPHENOL
400U	2,2'-CHLORDISOPROPYLETHER
400U	(3-AND/OR 4-)METHYLPHENOL
400U	N-NITROSODI-N-PROPYLAMINE
400U	HEXACHLOROETHANE
400U	NITROBENZENE
400U	ISOPHORONE
400U	2-NITROPHENOL
400U	2,4-DIMETHYLPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE
400U	2,4-DICHLOROPHENOL
400U	1,2,4-TRICHLOROBENZENE
400U	NAPHTHALENE
400U	4-CHLOROANILINE
400U	HEXACHLOROBUTADIENE
400U	4-CHLORO-3-METHYLPHENOL
400U	2-METHYLNAPHTHALENE
400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
400U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
400U	2-CHLORONAPHTHALENE
2100U	2-NITROANILINE
67J	DIMETHYL PHTHALATE
400U	ACENAPHTHYLENE
400U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
400U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
400U	DIBENZOFURAN
400U	2,4-DINITROTOLUENE
400U	DIETHYL PHTHALATE
400U	4-CHLOROPHENYL PHENYL ETHER
400U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U	4-BROMOPHENYL PHENYL ETHER
400U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
57J	PHENANTHRENE
400U	ANTHRACENE
400U	CARBAZOLE
400U	DI-N-BUTYLPHTHALATE
85J	FLUORANTHENE
68J	PYRENE
400U	BENZYL BUTYL PHTHALATE
400U	3,3'-DICHLOROBENZIDINE
42J	BENZO(A)ANTHRACENE
400U	CHRYSENE
400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	DI-N-OCTYLPHTHALATE
400U	BENZO(B AND/OR K)FLUORANTHENE
400U	BENZO-A-PYRENE
400U	INDENO (1,2,3-CD) PYRENE
400U	DIBENZO(A,H)ANTHRACENE
400U	BENZO(GHI)PERYLENE
19	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-268 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00

D. NO.: AA70

UG/KG	ANALYTICAL RESULTS
400U	PHENOL
400U	BIS(2-CHLOROETHYL) ETHER
400U	2-CHLOROPHENOL
400U	1,3-DICHLOROBENZENE
400U	1,4-DICHLOROBENZENE
400U	1,2-DICHLOROBENZENE
400U	2-METHYLPHENOL
400U	2,2'-CHLORDISOPROPYLETHER
400U	(3-AND/OR 4-)METHYLPHENOL
400U	N-NITROSODI-N-PROPYLAMINE
400U	HEXACHLOROETHANE
400U	NITROBENZENE
400U	ISOPHORONE
400U	2-NITROPHENOL
400U	2,4-DIMETHYLPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE
400U	2,4-DICHLOROPHENOL
400U	1,2,4-TRICHLOROBENZENE
400U	NAPHTHALENE
400U	4-CHLOROANILINE
400U	HEXACHLOROBUTADIENE
400U	4-CHLORO-3-METHYLPHENOL
400U	2-METHYLNAPHTHALENE
400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
400U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
400U	2-CHLORONAPHTHALENE
2100U	2-NITROANILINE
67J	DIMETHYL PHTHALATE
400U	ACENAPHTHYLENE
400U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
400U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
400U	DIBENZOFURAN
400U	2,4-DINITROTOLUENE
400U	DIETHYL PHTHALATE
400U	4-CHLOROPHENYL PHENYL ETHER
400U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U	4-BROMOPHENYL PHENYL ETHER
400U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
57J	PHENANTHRENE
400U	ANTHRACENE
400U	CARBAZOLE
400U	DI-N-BUTYLPHTHALATE
85J	FLUORANTHENE
68J	PYRENE
400U	BENZYL BUTYL PHTHALATE
400U	3,3'-DICHLOROBENZIDINE
42J	BENZO(A)ANTHRACENE
400U	CHRYSENE
400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	DI-N-OCTYLPHTHALATE
400U	BENZO(B AND/OR K)FLUORANTHENE
400U	BENZO-A-PYRENE
400U	INDENO (1,2,3-CD) PYRENE
400U	DIBENZO(A,H)ANTHRACENE
400U	BENZO(GHI)PERYLENE
19	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. WO.: AA61

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLOROETHANE
30U	METHYLENE CHLORIDE
13U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
13U	CHLOROFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1515 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA52

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLOROETHANE
20U	METHYLENE CHLORIDE
13U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
13U	CHLOROFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-06

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA69

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLOROETHANE
40U	METHYLENE CHLORIDE
40U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
58	CHLOROFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
25	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA70

UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE
12U	BROMOMETHANE
12U	VINYL CHLORIDE
12U	CHLOROETHANE
40U	METHYLENE CHLORIDE
12U	ACETONE
12U	CARBON DISULFIDE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
12U	1,1-DICHLOROETHANE
12U	1,2-DICHLOROETHENE (TOTAL)
12U	CHLOROFORM
12U	1,2-DICHLOROETHANE
12U	METHYL ETHYL KETONE
12U	1,1,1-TRICHLOROETHANE
12U	CARBON TETRACHLORIDE
12U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
12U	1,2-DICHLOROPROPANE
12U	CIS-1,3-DICHLOROPROPENE
12U	TRICHLOROETHENE(TRICHLOROETHYLENE)
12U	DIBROMOCHLOROMETHANE
12U	1,1,2-TRICHLOROETHANE
12U	BENZENE
12U	TRANS-1,3-DICHLOROPROPENE
12U	BROMOFORM
12U	METHYL ISOBUTYL KETONE
12U	METHYL BUTYL KETONE
12U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12U	1,1,2,2-TETRACHLOROETHANE
12U	TOLUENE
12U	CHLOROBENZENE
12U	ETHYL BENZENE
12U	STYRENE
12U	TOTAL XYLENES
19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-03

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1230 STOP: 00/00/00

D. NO.: AA72

UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE
12U	BROMOMETHANE
12U	VINYL CHLORIDE
12U	CHLOROETHANE
60U	METHYLENE CHLORIDE
12U	ACETONE
12U	CARBON DISULFIDE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
12U	1,1-DICHLOROETHANE
12U	1,2-DICHLOROETHENE (TOTAL)
12U	CHLOROFORM
12U	1,2-DICHLORDETHANE
12U	METHYL ETHYL KETONE
12U	1,1,1-TRICHLOROETHANE
12U	CARBON TETRACHLORIDE
12U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
12U	1,2-DICHLOROPROPANE
12U	CIS-1,3-DICHLOROPROPENE
12U	TRICHLOROETHENE(TRICHLOROETHYLENE)
12U	DIBROMOCHLOROMETHANE
12U	1,1,2-TRICHLORDETHANE
12U	BENZENE
12U	TRANS-1,3-DICHLOROPROPENE
12U	BROMOFORM
12U	METHYL ISOBUTYL KETONE
12U	METHYL BUTYL KETONE
12U	TETRACHLORDETHENE(TETRACHLOROETHYLENE)
12U	1,1,2,2-TETRACHLOROETHANE
12U	TOLUENE
12U	CHLOROBENZENE
12U	ETHYL BENZENE
12U	STYRENE
12U	TOTAL XYLENES
19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54457 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-01S COLLECTION START: 01/28/91 1300 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA51

UG/KG	ANALYTICAL RESULTS
14U	CHLOROMETHANE
14U	BROMOMETHANE
14U	VINYL CHLORIDE
14U	CHLOROETHANE
30U	METHYLENE CHLORIDE
14U	ACETONE
14U	CARBON DISULFIDE
14U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
14U	1,1-DICHLORDETHANE
14U	1,2-DICHLOROETHENE (TOTAL)
14U	CHLOROFORM
14U	1,2-DICHLOROETHANE
14U	METHYL ETHYL KETONE
14U	1,1,1-TRICHLORDETHANE
14U	CARBON TETRACHLORIDE
14U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
14U	1,2-DICHLOROPROPANE
14U	CIS-1,3-DICHLOROPROPENE
14U	TRICHLOROETHENE(TRICHLOROETHYLENE)
14U	DIBROMOCHLOROMETHANE
14U	1,1,2-TRICHLOROETHANE
14U	BENZENE
14U	TRANS-1,3-DICHLOROPROPENE
14U	BROMOFORM
14U	METHYL ISOBUTYL KETONE
14U	METHYL BUTYL KETONE
14U	TETRACHLORDETHENE(TETRACHLOROETHYLENE)
14U	1,1,2,2-TETRACHLOROETHANE
14U	TOLUENE
14U	CHLOROBENZENE
14U	ETHYL BENZENE
14U	STYRENE
14U	TOTAL XYLENES
28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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OVERSIZED

DOCUMENT

APPENDIX B

SUMMARY OF GEOPHYSICAL METHODS

The following sections are from "Geophysical Techniques for Sensing Buried Wastes and Waste Migration" by Glaccum, R. A., and M. R. Noel, August, 1983, Technos, Inc., for Environmental Monitoring Systems Laboratory, ORD., USEPA, Las Vegas, Nevada.

ELECTROMAGNETICS (EM)*

The electromagnetic (EM) method provides a means of measuring the electrical conductivity of subsurface soil, rock, and ground water. Electrical conductivity is a function of the type of soil and rock, its porosity, its permeability, and the fluids which fill the pore space. In most cases the conductivity (specific conductance) of the pore fluids will dominate the measurement. Accordingly, the EM method is applicable both to assessment of natural geohydrologic conditions and to mapping of many types of contaminant plumes. Additionally, trench boundaries, buried wastes and drums, as well as metallic utility lines can be located with EM techniques.

Natural variations in subsurface conductivity may be caused by changes in soil moisture content, ground water specific conductance, depth of soil cover over rock, and thickness of soil and rock layers. Changes in basic soil or rock types, and structural features such as fractures or voids may also produce changes in conductivity. Localized deposits of natural organic, clay, sand, gravel, or saltrich zones will also affect subsurface conductivity.

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*The term electromagnetic has been used in contemporary literature as a descriptive term for other geophysical methods, including GPR and metal detectors which are based on electromagnetic principles. However, this document will use electromagnetic (EM) to specifically imply the measurement of subsurface conductivities by low-frequency electromagnetic induction. This is in keeping with the traditional use of the term in the geophysical industry from which the EM methods originated. While the authors recognize that there are many electromagnetic systems and manufacturers, the discussion in this section is based solely on instruments which are calibrated to read in electrical conductivity units and which have been effectively and extensively used at hazardous waste sites. There is only one manufacturer of such instruments at the time of this writing.

Many contaminants will produce an increase in free ion concentration when introduced into the soil or ground water systems. This increase over background conductivity enables detection and mapping of contaminated soil and ground water at Hazardous Waste Sites (HWS), landfills, and impoundments. Large amounts of organic fluids such as diesel fuel can displace the normal soil moisture, causing a decrease in conductivity which may also be mapped, although this is not commonly done. The mapping of a plume will usually define the local flow direction of contaminants. Contaminant migration rates can be established by comparing measurements taken at different times.

The absolute values of conductivity for geologic materials (and contaminants) are not necessarily diagnostic in themselves, but the variations in conductivity, laterally and with depth, are significant. It is these variations which enable the investigator to rapidly find anomalous conditions.

Since the EM method does not require ground contact, measurements may be made quite rapidly. Lateral variations in conductivity can be detected and mapped by a field technique called profiling. Profiling measurements may be made to depths ranging from 0.75 to 60 meters. The data is recorded using strip chart and magnetic tape recorders. This continuous measurement allows increased rates of data acquisition and improved resolution for mapping small geohydrologic features. Further, recorded data enhanced by computer processing has proved invaluable in the evaluation of complex hazardous waste sites. The excellent lateral resolution obtained from EM profiling data has been used to advantage in efforts to outline closely-spaced burial pits, to reveal the migration of contaminants into the surrounding soil, and to delineate fracture patterns.

Vertical variations in conductivity can also be detected by the EM method. A station measurement technique called sounding is employed for this purpose. Data can be acquired from depths by combining results from a variety of EM instruments, each requiring different field application techniques. Other EM systems are capable of sounding to depth of one-thousand feet or more, but have not yet been used at HWS and are not adaptable to continuous measurements.

Profiling is the most cost-effective use of the EM method. Continuous profiling can be used in many applications to increase resolution, data density, and permit total site coverage at critical sites.

At HWS, applications of EM can provide:

- Assessment of natural geohydrologic conditions;
- Locating and mapping of burial trenches and pits containing drums and/or bulk wastes;
- Determination of flow direction in both unsaturated and saturated zones;
- Rate of plume movement by comparing measurement taken at different times;
- Locating and mapping of utility pipes and cables which may affect other geophysical measurements, or whose trench may provide a permeable pathway for contaminant flow.

Although there is available a wide variety of EM equipment, most of it is intended for geophysical exploration of mineral deposits. These units have not been used at HWS and do not provide a simple conductivity reading. This document discusses only those instruments which are designed and calibrated to read directly in units of conductivity.

Conductance is measured with electronic instrumentation consisting of a transmitter coil and receiver coil. The transmitter coil radiates an electromagnetic field which induces eddy currents in the earth below the instrument. Each of these eddy current loops, in turn, generates a secondary electromagnetic field which is proportional to the magnitude of the current flowing within that loop. A part of the secondary magnetic field from each loop is intercepted by the receiver coil and produces an output voltage which (within limits) is linearly related to subsurface conductivity. This reading is a bulk measurement of conductivity, e.g., the cumulative response to subsurface conditions ranging all the way from the surface to the effective depth of the instrument.

The sampling depth of EM equipment is related to the instrument's coil spacing. Instruments with coil spacings of one, four, ten, twenty, and forty meters are commercially available. The nominal sampling depth of an EM system is taken to be approximately 1.5 times the coil spacing.

The EM sounding method can rarely identify more than two or three layers with reasonable confidence. The greater the contrast in the conductivity values of each layer, the better the results. Often, the more detailed resistivity sounding method is used to complement EM profiling data.

The results of sounding analysis are usually presented as a vertical section, in which the conductivity layers are identified as a function of depth. The analyst may be able to correlate these layers to geohydrologic units believed to exist at the site.

Although the EM technique can be used for profiling or sounding, profiling is the most effective use of the EM method. Profiling makes possible the rapid mapping of subsurface conductivity changes, and the location, delineation, and assessment of spatial variables resulting from changes in the natural setting or from many contaminants.

EM is a very effective reconnaissance tool. The use of qualitative non-recorded data can provide initial interpretation in the field. If site conditions are complex, the use of a high-density survey grid, continuously-recording instruments, and computer processing may be necessary, in order to properly evaluate subsurface conditions. When continuously-recording instruments are used, total site coverage is feasible. More quantitative information can be obtained by using conductivity data from different depth ranges. At present, three different systems must be used to acquire data from 0.75 to 60 meters. Very often, however, data from two standard depths, e.g. six and fifteen meters, is adequate to furnish depth information.

Capabilities

- The EM profile method permits rapid data acquisition, resulting in high-density and high-resolution surveys.
- Profiling data may be acquired from various discrete depths, ranging from 0.75 meters to 60 meters.
- Continuously-recording instruments (to fifteen meter depth) can increase survey speed, density, and resolution permitting total site coverage, if required.
- EM reads directly in conductivity units (mm/m) permitting use of raw data in the field, and correlation to specific conductance of ground water samples.
- EM can map local and general changes in the natural geohydrologic setting.
- EM can detect and measure the boundaries of a conductivity plume.
- Direction of plume flow can be determined from an EM conductivity map.
- EM measurements taken at different times can provide the means to compute movement rates of conservative contaminants.
- EM can detect and map burial pits and trenches of both bulk and drummed wastes.
- EM can detect and map the location of buried metallic utility lines.

Limitations

- EM has less sounding (vertical) resolution than the resistivity method due to its limited number of depth intervals.
- The acquisition of data from depths of 0.75 to 60 meters requires the use of three different EM systems.
- Continuous data can be obtained only to depths up to approximately fifteen meters.
- An EM measurement is influenced by the shallower materials more than the deeper ones; this must be considered when evaluating the data.
- EM measurements become non-linear in zones of very high conductivity.
- The EM method is susceptible to noise from a number of sources, including natural atmospheric noise, powerlines, radio transmitters, buried metallic trash, pipes, cables, nearby fences, vehicles, and buildings.

MAGNETOMETER

Magnetic measurements are commonly used to map regional geologic structure and to explore for minerals. They are also used to locate pipes and survey stakes or to map archeological sites. They are commonly used at HWS to locate buried drums and trenches.

A magnetometer measures the intensity of the earth's magnetic field. The presence of ferrous metals creates variations in the local strength of that field, permitting their detection. A magnetometer's response is proportional to the mass of the ferrous target. Typically, a single drum can be detected at distances up to six meters, while massive piles of drums can be detected at distances up to twenty meters or more.

Some magnetometers require the operator to stop and take discrete measurements; other instruments permit the acquisition of continuous data as the magnetometer is moved across the site. This continuous coverage is much more suitable for high resolution requirements and the mapping of extensive areas.

The effectiveness of a magnetometer can be reduced or totally inhibited by noise or interference from time-variable changes in the earth's field and spatial variations caused by magnetic minerals in the soil, or iron and steel debris, ferrous pipes, fences, buildings, and vehicles. Many of these problems can be avoided by careful selection of instruments and field techniques.

At HWS, magnetometers may be used to:

- Locate buried steel containers, such as 55-gallon drums;
- Define boundaries of trenches filled with ferrous containers;
- Locate ferrous underground utilities, such as iron piles or tanks, and the permeable pathways often associated with them;
- Select drilling locations that are clear of buried drums, underground utilities, and other obstructions.

A magnetometer measures the intensity of the earth's magnetic field. Variations in this field may be caused by the natural distribution of iron oxides within the soil and rock or by the presence of buried iron or steel objects. (The magnetometer does not respond to nonferrous metals such as aluminum, copper, tin, and brass).

The earth's magnetic field behaves much as if there were a large bar magnet embedded in the earth. Although the earth's field intensity varies considerably throughout the United States, its average value is approximately 50,000 gammas.* The angle of the magnetic field with respect to the earth's surface also varies. In the U.S., this angle of inclination ranges approximately sixty to seventy-five degrees from the horizontal.

The intensity of the earth's magnetic field changes daily with sunspots and ionospheric conditions which can cause large and sometimes rapid variations. With time, these variations produce unwanted signals (noise) and can substantially affect magnetic measurements.

If the magnetic properties of the soil and rock were perfectly uniform, there would be no local magnetic anomalies; however, a concentration of natural iron minerals, or a buried iron object, will cause a local magnetic anomaly which can be detected at the surface.

Typical magnetic anomalies at HWS will range from one to hundreds of gammas for small discrete targets, depending on their depth. Massive piles of buried drums will result in anomalies of from one-hundred to one-thousand gammas or more.

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*The unit of magnetic measurement is the gamma. Recently, the gamma unit has been renamed the Nano Tesla. At this time, most instruments are still labeled in gammas, as are specification sheets, existing literature, and field data; hence all references to magnetic data in this document are expressed in gammas.

While several factors influence the response of a magnetometer, the mass of a buried target and its depth are the most important. A magnetometer's response is directly proportional to the mass of ferrous metal present and varies by one over the distance cubed ($1/d^3$) for total measurements. If a gradiometer is used, the response falls off even faster, as one over the distance to the fourth power ($1d^4$). With sensors of equal sensitivity, the total field system provides the greater working range. Typically a single drum can be detected at distances up to six meters or more. There is a wide variety of magnetometers available commercially; specific performance is highly dependent upon the type of magnetometer and the field conditions. Theoretically, the number of drums may be calculated, however, such results should be considered only approximations because of the number of variables associated with targets, site conditions, and calculations. Actual results may vary considerably.

A magnetometer with continuous recording capabilities can be used to produce a strip chart of the field data, which is helpful in assessing signal-to-noise ratio, anomaly shape, target location, and provides a means of exercising quality control over field data. This continuous coverage is much more suitable for high-resolution requirements and the mapping of extensive areas.

The effectiveness of a magnetometer can be reduced or totally inhibited by noise or interference from time-variable changes in the earth's field and spatial variations caused by magnetic minerals in the soil, or iron and steel debris, ferrous pipes, fences, buildings, and vehicles. Many of these problems can be avoided by careful selection of instruments and field techniques.

Capabilities

- Magnetometers respond to ferrous metals (iron or steel) only.
- Individual drums can be detected at depths up to six meters.
- Large masses of drums can be detected at depths of six to twenty meters.
- Magnetometers can provide a greater depth range than metal detectors.
- Interpretation of their data may be used to provide estimates of the number and depth of buried drums.
- They can provide a continuous response along a traverse line.
- They may be mounted on vehicles for coverage of a large site.

Limitations

- In general, magnetometers are susceptible to noise from many different sources, including steel fences, vehicles, buildings, iron debris, natural soil minerals, and underground utilities.
- Low cost units are limited in depth range (but their limitations make them insensitive to many of the above sources of noise).
- Total field instruments are also sensitive to fluctuations in the earth's magnetic field which can seriously affect data.
- Data is of limited use in determining the number and depth of targets.
- Complex site conditions may require the use of highly skilled operators, special equipment, and the recording and processing of data, along with skilled interpretation.

SOIL GAS SURVEY METHOD

SURVEY OF SOIL GAS FOR ORGANIC VAPORS

1.0 SCOPE AND APPLICATION

1.1 Soil gas sampling and/or analysis is a technique useful to rapidly survey for chemical vapors in soil. A wide variety of sampling and analytical techniques may be applied to soil gas, depending on the user's objectives and available equipment. This method specifically addresses only the use of direct-reading organic vapor instruments. Similar techniques may be useful for inorganic vapors and collection of samples for subsequent analysis by other methods.

2.0 SUMMARY OF METHOD

2.1 To create a hole in the soil, a solid steel probe is driven into soil with a slide hammer attachment. The solid probe is then removed and a hollow, perforated sampling probe is inserted into the hole. Soil gas can then be drawn from the sampling probe, into sample collection apparatus, or into a direct-reading instrument.

3.0 INTERFERENCES

3.1 Contamination of sampling equipment can result in falsely elevated results. Equipment should undergo appropriate decontamination procedures. Sampling equipment blank analyses should be run to confirm absence of interferences.

3.2 Users must remain aware of limitations of analytical technique and equipment. Most direct-reading total organic vapor instruments vary widely in their response to different compounds. typical example is methane, a natural product (especially in landfills), is detected by FID, but not by PID.

3.3 Results of soil gas techniques are dependent on numerous (mostly uncontrollable) factors including temperature, humidity, barometric pressure, soil composition and porosity. There is no simple relationship between measurements of soil gas and such traditional media such as soil and groundwater concentrations. Generally, soil gas measurements are directly comparable only to other soil gas measurements made under the same conditions, in the same area, at about the same time. Extreme conditions of tightly-packed or moisture-saturated soil may preclude soil gas techniques altogether.

4.0 APPARATUS AND MATERIALS

Note that listings in this section reflect equipment used at FIT 4, and variations may be appropriate, if suitability for the required analysis is demonstrated.

4.1 Solid soil probe: 3 ft x 1/2 inch solid steel bar, with pointed 9/16 inch entry tip and other end threaded to fit slide hammer (Item 4.2 below). (Art's Manufacturing & Supply, Catalog No. EXT-TP, or similar.)

4.2 Slide hammer: Threaded to fit solid soil probe, approx. 9 lb. (Art's Manufacturing & Supply, Catalog No. H/A, or similar.)

4.3 Threaded extensions (optional): Useful to extend depth of solid soil probe.

4.4 Hollow sampling tube: Stainless steel tubing, 1/2 inch outside diameter by 5 ft (length optional). Bottom one-foot section is perforated with approximately 40 holes, 1/4 inch in diameter. Top end is fitted with appropriate union and/or adapters for sampling equipment. (e.g., for 1/8 inch tubing: 1/8 inch x 1/2 inch reducing union.)

4.5 Appropriate sampling or analysis equipment: May be selected to meet specific project objectives, if appropriate performance is demonstrated. Direct-reading instruments found useful for total organic vapors are listed below:

4.5.1 Photo-ionization detectors (PID): Selective for compounds with ionization potentials less than the detector lamp -- no response to methane. No support gases required.

4.5.1.1 Photovac TIP (Total Ionizables Present): Compact, one-piece unit. Lamps easily changed. Operation for over 4 hours requires external battery pack.

4.5.1.2 hnu HW-101: Two-piece unit, somewhat larger than TIP. Different lamps require additional probes. Battery life 8 - 10 hours. Note that Model PI-101 is probably not suitable, because the sample is aspirated by a small fan, rather than a pump.

4.5.2 Flame ionization detector (FID): Near-universal detection of organic compounds, including methane. Requires hydrogen gas.

4.5.2.1 Foxboro OVA (Organic Vapor Analyzers, various models): Air to support flame is drawn from sample stream -- lack of oxygen in soil gas often

extinguishes flame. Built-in GC can be a useful option. Requires periodic (8 hours) refilling with hydrogen gas.

4.5.3 Volumetric ware and syringes (optional): As required, to prepare calibration standards and dilutions.

5.0 REAGENTS

5.1 Calibration and performance verification: Specific requirements will vary with instrumentation and project objectives. Typical requirements for most cases are listed below:

5.1.1 Air, Ultra-zero grade: To calibrate and/or verify instrument zero. Lesser grades, even clean ambient air, may appropriate in some cases.

5.1.2 Calibration mixtures: Specific requirements will vary with instrumentation and project objectives. Instrument manufacturers typically specify and/or supply calibration mixtures for their instruments. If project objectives target a specific compound, it may be necessary to obtain or prepare custom mixtures. At the beginning of a project, it may be advisable to obtain or prepare three calibration mixtures:

5.1.2.1: 1 - 2 times the detection limit or action level

5.1.2.2: Midway between the action or detection limit and the instrument's maximum limit

5.1.2.3: Near the maximum of the instrument's range

These will likely be custom mixtures or dilutions prepared by the analyst.

5.2 Hydrogen (99.999%, Ultra-high purity): For FID.

6.0 SAMPLE STORAGE

6.1 This method specifically addresses only real-time, direct-reading techniques. The analyst is advised that the stability of trace level gas mixtures is not well characterized, is highly variable, and dependent upon the specific mixture and container composition. Samples should be analyzed "as soon as possible". Stored samples are subject to losses and/or

contamination from ambient air. Samples held over 24 hours may be suspect.

7.0 PROCEDURE

7.1 This procedure presupposes that all equipment has been properly decontaminated and stored prior to testing.

7.2 Calibration:

7.2.1 Daily (minimum):

7.2.1.1 Startup: Zero and calibrate the instrument, according to manufacturer's instructions or FIT 4 SOP.

7.2.2.2 Drift check (at conclusion of testing): The stability of the instrument calibration must be verified at the end of each daily testing period. Analyze calibration standard and calculate drift (percent difference) as follows:

$$\text{Percent Difference} = \frac{R1 - R2}{R1}$$

where:

R1 = Initial instrument response (daily startup)

R2 = Subsequent instrument response (daily, at conclusion of testing)

If the response varies more than +/-20%, flag the data as questionable, and note apparent bias. (Or recalibrate the instrument and reanalyze all samples analyzed since the last successful calibration or check.)

7.2.2 (Optional) Start of project (or weekly minimum): Perform startup calibration as in 7.2.2.1 above. Prepare and analyze the calibration standards described in Section 5.1 above (zero plus three concentration levels). Tabulate instrument responses against standard concentrations, and calculate and tabulate calibration factors as follows:

$$\text{Calibration factor (CF)} = \frac{\text{Instrument response}}{\text{Standard concentration}}$$

These results can be used to prepare a calibration curve. If the percent relative standard deviation (%RSD) is less than 20% over the working range, linearity can be assumed,

and the average calibration factor (CF) can be used in place of the calibration curve.

7.3 Sampling system blanks: Sampling equipment must be demonstrated to be free of interferences affecting the test. At least 10% of the hollow sampling probes should be sampled (via direct-reading instrument or sample collection device) in clean ambient air with readings recorded as "Sampling system blank". Positive readings (above ambient air background) should be rectified by appropriate decontamination. Otherwise, soil gas readings less than 2 to 10 times blank values are suspect as false positive readings, due to contamination.

7.4 Probe installation

7.4.1 Attach solid probe to slide hammer. Tighten securely with wrenches to avoid damage to threads. Drive solid probe into soil to the desired depth. (Extensions may be used to extend depth.) Remove solid probe from hole.

7.4.2 Install hollow sampling probe. Simply insert the probe into hole and tamp soil around the probe at the surface, to minimize intrusion of ambient air.

7.5 Sample collection and/or analysis: Attach sampling or analysis equipment, using appropriate fittings to preclude leaks. Operate pump for sufficient period to purge ambient air from probe. When using a direct-reading instrument, it is likely that the reading will rapidly peak, then level off or slowly decay. It is suggested that the peak reading be recorded, along with any observed steady-state reading. When collecting a sample for later analysis (not using a direct-reading instrument), use low flow rates (0.1 - 0.5 L/min, consistent with sampling device), and purge 3 - 5 probe volumes before attaching the actual sample collection device.

7.6 Calculations:

7.6.1 Generally, the readings from direct-reading instruments are used without calculation or correction. If the results of the optional 3-point calibration show non-linear response, results should be corrected using the calibration curve.

7.6.2 If the target compound is known to be different than the compound for which the instrument was calibrated, it is possible to estimate concentrations of the target compound, using relative sensitivities. A table of conversion factors or relative sensitivities is generally available from the instrument manufacturer.

8.0 QUALITY CONTROL

8.1 Section 7.2 specifies calibration procedures. It requires that the %RSD vary by less than 20% when comparing calibration factors to determine if the optional three-point calibration curve is linear. It also sets a limit of +/-20% when comparing drift (end-of-day) checks versus the initial daily calibration. If the limit is exceeded, the instrument must be recalibrated before continued use, and previously-analyzed samples must be reanalyzed or flagged as suspect.

8.2 Section 7.3 requires analysis of sampling system blanks.

8.3 In general, it is advisable to determine background conditions by sampling an area believed to free from contamination.

9.0 METHOD PERFORMANCE

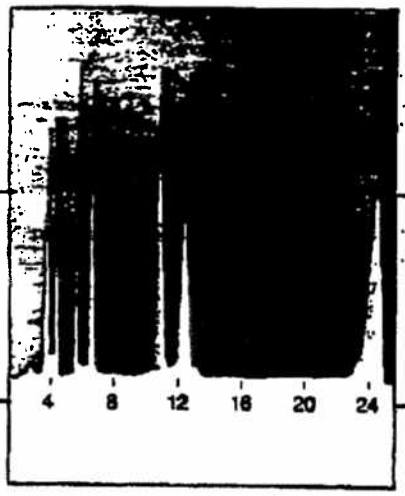
9.1 Precision, accuracy, representativeness, comparability, and completeness of soil gas survey results are highly variable and dependent on many uncontrollable factors, including soil conditions and specific target analytes. Complete, general characterization of method performance under all conditions is probably not possible.

10.0 REFERENCES

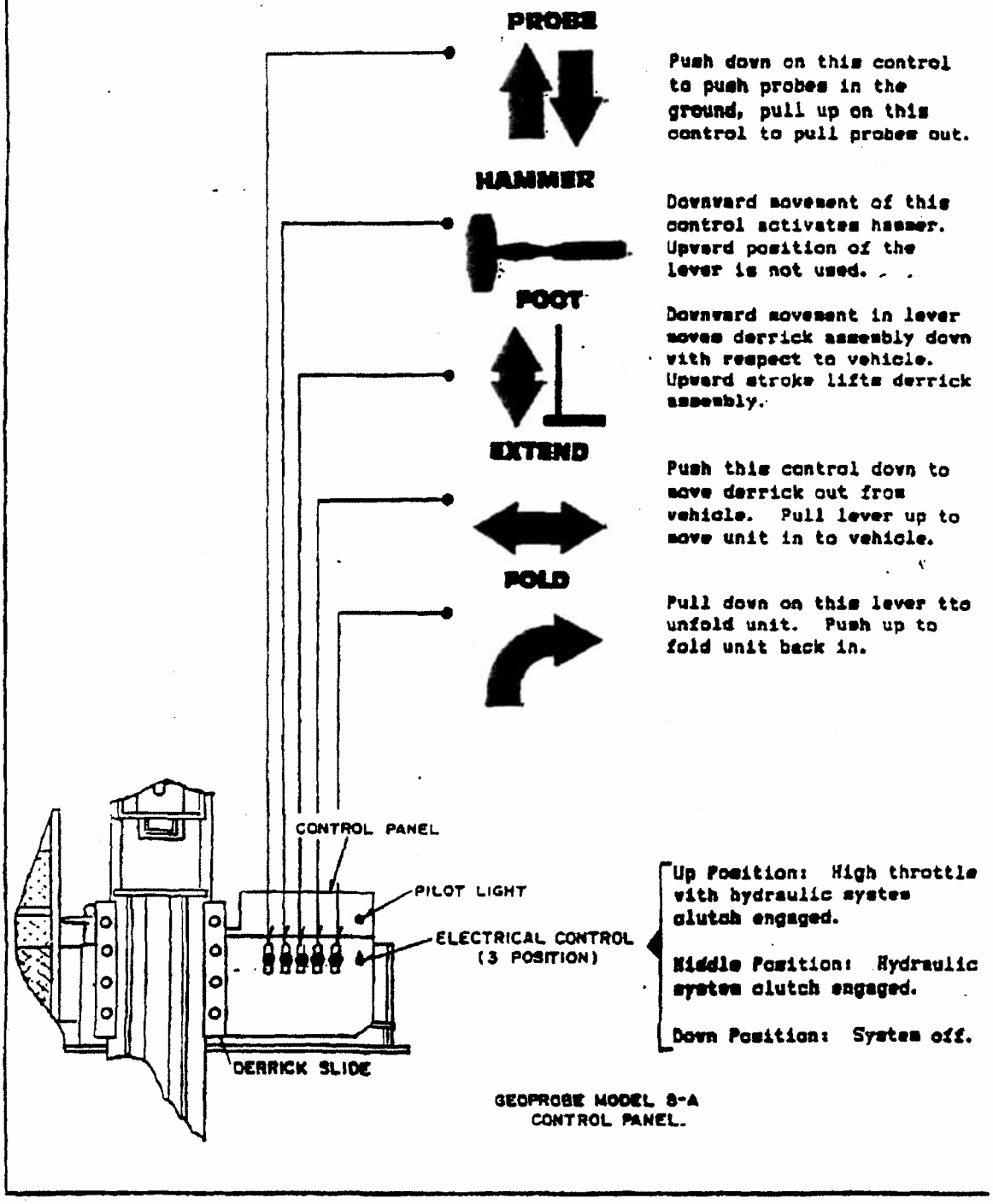
1. Soil Gas Sensing for Detection and Mapping of Volatile Organics, EPA/600/8-87/036, August 1987.

Geoprobe

SOIL PROBING EQUIPMENT



For Soil Vapor, Soil Core, and Groundwater Sampling Applications



GEOPROBE MODEL 8-A
CONTROL PANEL.

DRAWN	CHECKED	APPROVED	DATE	REVISED	DATE

GEOPROBE MODEL 8-H
OPERATION SAFETY CAUTIONS

1. Always take vehicle out of gear and set emergency brake before engaging remote ignition.

CAUTION: 2. If vehicle is parked on a loose or soft surface do not fully raise rear of vehicle with probe foot, as vehicle may fall or move, causing injury.

3. Always EXTEND the probe unit out from the vehicle and deploy the FOOT to clear vehicle roof line before folding the probe unit out.

4. Operators should wear OSHA approved steel toed shoes and keep feet clear of probe FOOT.

CAUTION: 5. One person only should operate the probe machine and the assembly - disassembly of probe rods and accessories.

6. Never place hands on top of a rod while it is under the machine.

7. Turn off the hydraulic system while changing rods, inserting the hammer anvil, or attaching accessories.

8. Operator must stand to the control side of the probe machine, clear of probe foot and mast, while operating controls.

9. Wear safety glasses at all times during the operation of this machine.

10. Never exert down pressure on the probe rod so as to lift the machine base over six inches off the ground

CAUTION: 11. Never exert down pressure on a probe rod so as to lift the rear tires of the vehicle off the ground.

12. Always remove the hammer anvil or other tool from the machine before folding the machine to the horizontal postion.

CAUTION: 13. The vehicle catalytic converter is hot and may present a fire hazard when operating over dry grass or combustibles.

14. Geoprobe operators must wear ear protection. OSHA approved ear protection for sound levels exceeding 85 dba is recommended.

15. The location of buried or underground utilities and services must be known before starting to drill or probe.

16. Shut down the hydraulic system and stop the vehicle engine before attempting to clean or service the equipment.

CAUTION: 17. Accidental engagement of this machine may cause injury.

GEOPROBE MODEL 8-M

MACHINE MAINTENANCE

CHECK THE HYDRAULIC FLUID RESERVOIR LEVEL AT THE BEGINNING OF EACH OPERATING DAY, MAINTAIN THE OIL LEVEL WITHIN ONE-HALF INCH OF THE COLD FILL LEVEL ON THE DIP STICK. APPROPRIATE OILS FOR FILLING ARE LISTED IN THIS MANUAL.

GREASE SHOULD BE APPLIED TO THE DERRICK SLIDE (TWO ZIRCKS ON EACH SIDE) AND THE DERRICK END OF THE FOLD CYLINDER (ONE FITTING) ON A WEEKLY BASIS.

CHECK THE OIL COOLING FAN EACH DAY AND MAKE SURE THAT IT IS OPERATING PROPERLY.

THIS MACHINE VIBRATES! TIGHTEN BOLTS AND HYDRAULIC FITTINGS AT LEAST MONTHLY.

KEEP TOOL THREADS CLEAN. WIRE BRUSH THEM TO REMOVE DIRT AFTER EVERY USE.

Training Manual

A. STEP BY STEP PROCESS FOR GATHERING SOIL VAPOR SAMPLES.

I. Positioning Geoprobe
   a) Back carrier van or pick-up to desired probing location and set park brake.
   b) Activate unit and use EXTEND control and foot cylinder to laterally extend probing unit.

NOTE: CHECK FOR CLEARANCE AT ROOF OF VEHICLE BEFORE UNFOLDING GEOPROBE

   c) Use the FOLD and FOOT controls to place unit to exact probing spot.
      1. Adjust probe axis to perpendicular and put carrier vehicle weight on probe unit.
      2. When probe axis is perpendicular to ground surface, probing is ready to begin.

II. Drilling (concrete, asphalt, etc)
   a) Insert carbide-tipped drill bit into hammer.
   b) Activate HAMMER ROTATION CONTROL by turning counter-clockwise. (This allows drill bit to spin when HAMMER and PROBE controls are activated).
   c) Use HAMMER CONTROL to activate rotation.
   d) When surface has been penetrated, turn knob clockwise.

IMPORTANT NOTE: BE SURE TO SHUT OFF THE ROTARY ACTION BEFORE DRIVING PROBE RODS.

III. Probing
   a) Insert hammer anvil in hammer
   b) Screw drive cap on end of probe rod.
   c) Screw expendable point holder onto other end of first probe rod.
   d) Slip expendable drive point into point holder.
   e) Activate hydraulics and start to probe
      1. Probe rods must remain parallel to probe cylinder shaft while probing.
      2. Use HAMMER CONTROL if unable to reach desired depth with PROBE control.

IMPORTANT NOTE: KEEP RODS SCREWED TIGHT WHILE HAMMERING.

   f) Continue probing to d4sired depth.
      1. If anticipated depth is more than three feet, screw another with drive cap into penetrated rod.
      2. Continue to screw rods together as probing continues until desired depth is reached.

IMPORTANT NOTE: DEACTIVATE HYDRAULICS WHILE CHANGING RODS

IV: Gathering Vapor Samples
- a) Remove hammer anvil from hammer
- b) Screw on pull cap to end of probe rod.
- c) Retract rod approximately 6" - 12".
  1. Retraction of rod disengages expendable drive point holder and allows for soil vapor to enter rod.
- d) Unscrew pull cap and replace with gas sampling cap.
  1. Cap is furnished with barbed hose connector
- e) Connect vacuum hose to barbed connector

IMPORTANT: SHUT ENGINE OFF BEFORE TAKING SAMPLE (Exhaust fumes can cause faulty sample data)

- f) Turn vacuum pump on and place desired vacuum pressure in vacuum tank.
- g) Open line control valve.
  1. For each rod used allow for 300 (1) of volume. Example: 3 rods used = 900 (1) = .900 on gauge.
- h) After achieving sufficient purge volume close valve and allow sample line pressure gauge to return to 0.
  1. This returns sample train to atmospheric temperature.
- i) The vapor sample can now be taken.
  1. Pinch hose near gas sampling cap to disallow any outside vapors to enter rods.
  2. Insert syringe needle into center of barbed hose connector and draw out vapor sample.
  3. Take sample to G.C. to be analyzed.
  4. Periodically drain the vacuum tank.

V. Retracting Probe Rods
- a) Activate Unit
- b) Unscrew gas sampling cap and replace with pull cap.
- c) Retract and unscrew rods.

NOTE: DEACTIVATE HYDRAULICS WHILE CHANGING RODS

VI. Folding Probing Unit into Carrier Van
- a) Use FOOT, FOLD, and EXTEND controls to load

B. MAINTENANCE

I. Cleaning Rods
- a) Rods must be kept clean
  1. GC will indicate dirty rods
  2. Alconox detergent and wire brush to wash rods and threads
  3. Distilled H_2O to rinse
  4. Let Dry

II. Machine Maintenance

a) Check hydraulic fluid level at beginning of each operating day.
   1. Maintain oil within 1/2" of the cold fill level on dip stick.
   2. Hydraulic oil/filter should be changed after the first 250 hrs. of service and every 1000 hrs. of operation or one year of service thereafter.
   3. Check the oil cooling fan each day to make sure it is operating properly.
   4. Tighten bolts and hydraulic fittings at least monthly.
   5. Check hydraulic hosed for leaks.

b) Keep syringes clean

c) Grease Zerks
   1. Show zerk locations on machine
   2. Apply grease to Derrick slide (2 zerks on each side) weekly.
   3. Apply grease to Derrick end of the Fold Cylinder weekly.

d) Broken Hose or Faulty Hydraulics.
   1. To manually fold probe unit, unscrew two hydraulic lines (hose #8 & 9 in operator's manual) that attach to FOLDING CONTROL on control Panel and fold unit in carrier van.
   2. Unscrew Telescope hydraulic lines (hose #10 & 11).
   3. Unit can now slide into carrier van by carefully reversing carrier van against a solid structure (tree, concrete wall, etc), until probing unit is completely in van.

POOR LEGIBILITY

PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF
STATION ID: SS-01
CASE NUMBER: 16773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1515 STOP: 00/00/00
MD NUMBER: AA52

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
[redacted]		520	MANGANESE
7.9UR	ANTIMONY	.12U	MERCURY
[redacted]		[illegible]	NICKEL
		560	POTASSIUM
1U	BERYLLIUM	1UJ	SELENIUM
1U	CADMIUM	1U	SILVER
[redacted]		2200U	SODIUM
		.52U	THALLIUM
		NA	TIN
		[illegible]	VANADIUM
		32	ZINC
		24	PERCENT MOISTURE

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-01
CASE.NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1515 STOP: 00/00/00
D. NO.: AA52 MO NO: AA52

RESULTS	UNITS	PARAMETER
2.50U	MG/KG	CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA70

MG/KG	ANALYTICAL RESULTS
[redacted]	[redacted]
7.6UR	ANTIMONY
[redacted]	[redacted]
[redacted]	[redacted]
1U	BERYLLIUM
2U	CADMIUM
[redacted]	[redacted]
6U	COBALT
[redacted]	[redacted]
[redacted]	[redacted]

MG/KG	ANALYTICAL RESULTS
[redacted]	[redacted]
.12U	MERCURY
[redacted]	[redacted]
620	POTASSIUM
.51UR	SELENIUM
1U	SILVER
170U	SODIUM
.51U	THALLIUM
NA	TIN
[redacted]	[redacted]
[redacted]	[redacted]
21	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA70 MO NO: AA70

RESULTS	UNITS	PARAMETER
2.20U	MG/KG	CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-268 SAMPLE NO. 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NUMBER: 15779 SAS NUMBER: MD NUMBER: AA72

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
[illegible]	[illegible]	290	MANGANESE
9.2UR	ANTIMONY	.15U	MERCURY
[illegible]	[illegible]	8.5	NICKEL
[illegible]	[illegible]	420	POTASSIUM
1U	BERYLLIUM	.62UR	SELENIUM
2U	CADMIUM	1.2U	SILVER
[illegible]	[illegible]	1900	SODIUM
[illegible]	[illegible]	.62U	THALLIUM
5U	COBALT	NA	TIN
[illegible]	[illegible]	30	VANADIUM
[illegible]	[illegible]	110	ZINC
[illegible]	[illegible]	35	PERCENT MOISTURE
[illegible]	[illegible]		

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA72 MO NO: AA72

RESULTS UNITS PARAMETER
2.70U MG/KG CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA53

MG/KG	ANALYTICAL RESULTS
[redacted]	
7.2UR	ANTIMONY
[redacted]	
1U	BERYLLIUM
[redacted]	
7U	COBALT
[redacted]	

MG/KG	ANALYTICAL RESULTS
67	[redacted]
.12U	MERCURY
14	NICKEL
350	POTASSIUM
1UJ	SELENIUM
2U	SILVER
1300	SODIUM
.48U	THALLIUM
NA	TIN
49	VANADIUM
36	ZINC
16	PERCENT MOISTURE

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA53 MD NO: AA53

RESULTS	UNITS	PARAMETER
2.20U	MG/KG	CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54447 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-02 COLLECTION START: 01/30/91 1125 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA71

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
[illegible]	ALUMINUM	120	MANGANESE
7.8UR	ANTIMONY	.13U	MERCURY
[illegible]	ARSENIC	84	NICKEL
[illegible]	BARIUM	670	POTASSIUM
1U	BERYLLIUM	1UJ	SELENIUM
[illegible]	CADMIUM	2U	SILVER
[illegible]	CALCIUM	260U	SODIUM
[illegible]	CHROMIUM	.52U	THALLIUM
6U	COBALT	NA	TIN
[illegible]	COPPER	57	VANADIUM
[illegible]	IRON	84	ZINC
[illegible]	LEAD	23	PERCENT MOISTURE
[illegible]	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54447 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-02 COLLECTION START: 01/30/91 1125 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: O. NO.: AA71 MD NO: AA71

RESULTS	UNITS	PARAMETER
2.6OU	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MO NUMBER: AA73

MG/KG	ANALYTICAL RESULTS
[redacted]	[redacted]
6.9UR	ANTIMONY
2UJ	ARSENIC
[redacted]	[redacted]
.23W	BERYLLIUM
1U	CADMIUM
[redacted]	[redacted]
[redacted]	[redacted]
2U	COBALT
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
670	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
91	MANGANESE
.11U	MERCURY
2.1U	NICKEL
180	POTASSIUM
.46UR	SELENIUM
.92U	SILVER
610U	SODIUM
.46U	THALLIUM
NA	TIN
1U	VANADIUM
140	ZINC
13	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-03
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00
D. NO.: AA73 MD NO: AA73

RESULTS	UNITS	PARAMETER
2.TOU	MG/KG	CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA58

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
[redacted]	[redacted]	[redacted]	[redacted]
30U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
[redacted]	[redacted]	4400	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
[redacted]	[redacted]	10000	SODIUM
3U	CHROMIUM	2U	THALLIUM
3U	COBALT	NA	TIN
3U	COPPER	[redacted]	[redacted]
[redacted]	[redacted]	30#	ZINC
[redacted]	[redacted]		
[redacted]	[redacted]		

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA58 MO NO: AA58

RESULTS	UNITS	PARAMETER
120	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

METALS DATA REPORT 03/14/91

PROJECT NO. 91-288 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NUMBER: 16773 SAS NUMBER: MD NUMBER: AA85

UG/L	ANALYTICAL RESULTS
[redacted]	[redacted]
30U	ANTIMONY
3U	ARSENIC
[redacted]	[redacted]
1U	BERYLLIUM
2U	CADMIUM
[redacted]	[redacted]
3U	CHROMIUM
20U	COBALT
3U	COPPER
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	MAGNESIUM

UG/L	ANALYTICAL RESULTS
3200	MANGANESE
.20U	MERCURY
9U	NICKEL
14000	POTASSIUM
1U	SELENIUM
4U	SILVER
88000	SODIUM
2U	THALLIUM
NA	TIN
2U	VANADIUM
20UJ	ZINC

REMARKS ***REMARKS***

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA65 WO NO: AA65

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-09 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA86

UG/L	ANALYTICAL RESULTS
[illegible]	[illegible]
40U	ANTIMONY
2U	ARSENIC
[illegible]	[illegible]
1U	BERYLLIUM
2U	CADMIUM
[illegible]	[illegible]
3U	CHROMIUM
3U	COBALT
3U	COPPER
60U	IRON
3UJ	LEAD
[illegible]	[illegible]

UG/L	ANALYTICAL RESULTS
5U	MANGANESE
.20U	MERCURY
9U	NICKEL
640U	POTASSIUM
1U	SELENIUM
4U	SILVER
1600U	SODIUM
2U	THALLIUM
NA	TIN
2U	VANADIUM
3UJ	ZINC

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA66 MD NO: AA66

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA62

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
[illegible]	ALUMINUM	1800	MANGANESE
30U	ANTIMONY	.20U	MERCURY
3U	ARSENIC	8U	NICKEL
[illegible]	BARIUM	1500	POTASSIUM
1U	BERYLLIUM	2UJ	SELENIUM
2U	CADMIUM	4U	SILVER
[illegible]	CALCIUM	4100U	SODIUM
3U	CHROMIUM	2U	THALLIUM
20U	COBALT	NA	TIN
3U	COPPER	[illegible]	VANADIUM
[illegible]	IRON	28J	ZINC
[illegible]	LEAD		
[illegible]	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA62 MD NO: AA62

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA60

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
47B	ALUMINUM	480	MANGANESE
30U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
[illegible]	[illegible]	15000	POTASSIUM
1U	BERYLLIUM	4UJ	SELENIUM
2U	CADMIUM	4U	SILVER
[illegible]	[illegible]	82000	SODIUM
3U	CHROMIUM	2U	THALLIUM
4U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
[illegible]	[illegible]	4UJ	ZINC
[illegible]	[illegible]		
[illegible]	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA60 MD NO: AA60

RESULTS	UNITS	PARAMETER
BD	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA68

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
[redacted]	[redacted]	17	[redacted]
30U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
[redacted]	[redacted]	4000	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
[redacted]	[redacted]	12000	SODIUM
3U	CHROMIUM	2U	THALLIUM
3U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
90U	IRON	10UJ	ZINC
2UJ	LEAD		
[redacted]	[redacted]		

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-08 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA66 MD NO: AA68

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91 268 SAMPLE NO. 54430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA54

MG/KG	ANALYTICAL RESULTS
[redacted]	[redacted]
8.5UR	ANTIMONY
[redacted]	[redacted]
[redacted]	BARIUM
1U	BERYLLIUM
1U	CADMIUM
[redacted]	CALCIUM
[redacted]	CHROMIUM
6U	COBALT
[redacted]	COPPER
[redacted]	IRON
[redacted]	LEAD
[redacted]	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
320	MANGANESE
.13U	MERCURY
9.8	NICKEL
430	POTASSIUM
.56UR	SELENIUM
1.1U	SILVER
210U	SODIUM
.56U	THALLIUM
NA	TIN
43	VANADIUM
180	ZINC
29	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAJ-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D NO.: AA54 MD NO: AA54

RESULTS	UNITS	PARAMETER
2.30U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91 268 SAMPLE NO. 54431 SAMPLE TYPE: SOIL PROG ELEM: WSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA55

MG/KG	ANALYTICAL RESULTS
[illegible]	[illegible]
8.7UR	ANTIMONY
[illegible]	ARSENIC
[illegible]	BARIUM
1U	BERYLLIUM
.58U	CADMIUM
[illegible]	CALCIUM
[illegible]	CHROMIUM
5U	COBALT
[illegible]	COPPER
[illegible]	IRON
[illegible]	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
47	MANGANESE
.12U	MERCURY
0	NICKEL
1000	POTASSIUM
.58UR	SELENIUM
1.2U	SILVER
330U	SODIUM
.58U	THALLIUM
NA	TIN
48	VANADIUM
94	ZINC
31	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
•R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-02 COLLECTION START: 01/28/91 1840 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA55 MD NO: AA55

RESULTS	UNITS	PARAMETER
2.6U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00
MD NUMBER: AA58

MG/KG	ANALYTICAL RESULTS
[illegible]	[illegible]
8.2UR	ANTIMONY
[illegible]	[illegible]
[illegible]	[illegible]
1U	BERYLLIUM
1U	CADMIUM
[illegible]	[illegible]
[illegible]	[illegible]
4U	COBALT
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
480	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
85	MANGANESE
.13U	MERCURY
8.8	NICKEL
520	POTASSIUM
.55UR	SELENIUM
1.1U	SILVER
190U	SODIUM
.55U	THALLIUM
NA	TIN
41	VANADIUM
27	ZINC
27	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-03
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00
D. NO.: AA56 MD NO: AA56

RESULTS	UNITS	PARAMETER
2.50U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA59

MG/KG	ANALYTICAL RESULTS
[redacted]	[redacted]
9UR	ANTIMONY
[redacted]	[redacted]
1U	BERYLLIUM
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]

MG/KG	ANALYTICAL RESULTS
630	MANGANESE
.15U	MERCURY
18	NICKEL
230	POTASSIUM
.60UR	SELENIUM
1.2U	SILVER
140U	SODIUM
.60U	THALLIUM
NA	TIN
25	VANADIUM
56	ZINC
34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA59 MD NO: AA59

RESULTS	UNITS	PARAMETER
2.60U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA64

MG/KG	ANALYTICAL RESULTS
[redacted]	[redacted]
12UR	ANTIMONY
[redacted]	[redacted]
[redacted]	[redacted]
1U	BERYLLIUM
1U	CADMIUM
[redacted]	[redacted]
[redacted]	[redacted]
7U	COBALT
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]

MG/KG	ANALYTICAL RESULTS
[redacted]	[redacted]
.19U	MERCURY
[redacted]	[redacted]
840	POTASSIUM
.80UR	SELENIUM
1.6U	SILVER
200U	SODIUM
.80U	THALLIUM
NA	TIN
[redacted]	[redacted]
58	ZINC
50	PERCENT MOISTURE

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-02
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00
D. NO.: AA64 MD NO: AA64

RESULTS	UNITS	PARAMETER
3.80U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MO NUMBER: AA67

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
[illegible]	[illegible]	480	MANGANESE
8UR	ANTIMONY	.13U	MERCURY
[illegible]	ARSENIC	30	NICKEL
20	BARIUM	170	POTASSIUM
1U	BERYLLIUM	.53UR	SELENIUM
1U	CADMIUM	1.1U	SILVER
[illegible]	[illegible]	170U	SODIUM
[illegible]	[illegible]	.53U	THALLIUM
10	[illegible]	NA	TIN
1	[illegible]	19	VANADIUM
[illegible]	[illegible]	52	ZINC
[illegible]	[illegible]	25	PERCENT MOISTURE
410	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D NO.: AA67 WO NO: AA67

RESULTS	UNITS	PARAMETER
2.50U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G REINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: S0-04 COLLECTION START. 01/29/91 1145 STOP. 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA63

MG/KG	ANALYTICAL RESULTS
[illegible]	[illegible]
8.5UR	ANTIMONY
[illegible]	[illegible]
[illegible]	[illegible]
1U	BERYLLIUM
1U	CADMIUM
[illegible]	[illegible]
[illegible]	[illegible]
8U	COBALT
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
460	MANGANESE
.14U	MERCURY
6.5	NICKEL
300	POTASSIUM
.57UR	SELENIUM
1.1U	SILVER
150U	SODIUM
.57U	THALLIUM
NA	TIN
29	VANADIUM
43	ZINC
29	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA63 MO NO: AA63

RESULTS	UNITS	PARAMETER
2.70U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-05
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START 01/29/91 1130 STOP: 00/00/00
MD NUMBER: AA61

MG/KG	ANALYTICAL RESULTS
[redacted]	[redacted]
8.5UR	ANTIMONY
2UJ	ARSENIC
[redacted]	[redacted]
1U	BERYLLIUM
.57U	CADMIUM
[redacted]	[redacted]
[redacted]	[redacted]
4U	COBALT
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]

MG/KG	ANALYTICAL RESULTS
100	[redacted]
.14U	MERCURY
2.6U	NICKEL
200	POTASSIUM
.57UR	SELENIUM
1.1U	SILVER
160U	SODIUM
.57U	THALLIUM
NA	TIN
84	VANADIUM
18	ZINC
30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-OS COLLECTION START: 01/29/91 1130 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA61 MD NO: AA61

RESULTS	UNITS	PARAMETER
2.50U	MG/KG	CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-06
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00
MO NUMBER: AA69

MG/KG	ANALYTICAL RESULTS
[illegible]	[illegible]
8.5UR	ANTIMONY
[illegible]	[illegible]
[illegible]	BARIUM
1U	BERYLLIUM
1U	CADMIUM
[illegible]	[illegible]
[illegible]	[illegible]
3U	COBALT
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
140	MANGANESE
.14U	MERCURY
[illegible]	[illegible]
330	POTASSIUM
.57UR	SELENIUM
1.1U	SILVER
290U	SODIUM
.57U	THALLIUM
NA	TIN
23	VANADIUM
40	ZINC
30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA69 MD NO: AA89

RESULTS	UNITS	PARAMETER
2.5OU	MG/KG	CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-266 SAMPLE NO. 54427 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: PB-01 COLLECTION START: 01/28/91 1300 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA50

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
47U	ALUMINUM	1U	MANGANESE
30U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	8U	NICKEL
5U	BARIUM	640U	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
37U	CALCIUM	250U	SODIUM
3U	CHROMIUM	2U	THALLIUM
4U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
4U	IRON	3UJ	ZINC
[redacted]	[redacted]		
26U	MAGNESIUM		

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *WAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54427 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PB-01 COLLECTION START: 01/28/91 1300 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: MD NO: AA50

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

METALS DATA REPORT 03/14/91

PROJECT NO. 91-268 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA74

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
[redacted]	[redacted]	130	MANGANESE
40U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
[redacted]	[redacted]	2000	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
[redacted]	[redacted]	4100U	SODIUM
[redacted]	[redacted]	2U	THALLIUM
7U	COBALT	NA	TIN
[redacted]	[redacted]	5U	VANADIUM
[redacted]	[redacted]	120J	ZINC
[redacted]	[redacted]		
[redacted]	[redacted]		

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D NO.: AA74 MD NO: AA74

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

METALS DATA REPORT 03/14/91

PROJECT NO. 91-268 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA75

UG/L	ANALYTICAL RESULTS
[redacted]	ALUMINUM
30U	ANTIMONY
2U	ARSENIC
[redacted]	BARIUM
2U	BERYLLIUM
2U	CADMIUM
[redacted]	CALCIUM
[redacted]	CHROMIUM
30U	COBALT
[redacted]	COPPER
[redacted]	IRON
[redacted]	LEAD
[redacted]	MAGNESIUM

UG/L	ANALYTICAL RESULTS
2100	MANGANESE
.20U	MERCURY
20	NICKEL
870	POTASSIUM
1U	SELENIUM
4U	SILVER
2100U	SODIUM
2U	THALLIUM
NA	TIN
16	VANADIUM
87J	ZINC

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: WSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA75 MD NO: AA75

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

METALS DATA REPORT 03/14/91

PROJECT NO. 91-268 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA57

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
47U	ALUMINUM	2U	MANGANESE
30U	ANTIMONY	.20U	MERCURY
4U	ARSENIC	8U	NICKEL
8U	BARIUM	640U	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
[illegible]	[illegible]	1900U	SODIUM
3U	CHROMIUM	2U	THALLIUM
3U	COBALT	NA	TIN
[illegible]	[illegible]	2U	VANADIUM
20U	IRON	230J	ZINC
[illegible]	[illegible]		
[illegible]	[illegible]		

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA57 MD NO: AA57

RESULTS	UNITS	PARAMETER
12U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

METALS DATA REPORT 07/25/91

PROJECT NO: 91-833 SAMPLE NO: 59953 SAMPLE TYPE: GRNDWATER PROG ELEM: NSF COLLECTED BY: GARY BENEFIELD
SOURCE: DICKSON COUNTY LF CITY: DICKSON ST: TN
STATION ID: DC-PW-01A, PRIVATE WELL COLLECTION START: 07/18/91 0945 STOP: 00/00/00

UG/L	ANALYTICAL RESULTS
2.5U	SILVER
7.5U	ARSENIC
NA	BORON
[redacted]	[redacted]
1.2U	BERYLLIUM
1.2U	CADMIUM
2.5U	COBALT
2.5U	CHROMIUM
[redacted]	[redacted]
2.5U	MOLYBDENUM
5.0U	NICKEL
10U	LEAD
7.5U	ANTIMONY
10U	SELENIUM
6.2U	TIN
[redacted]	[redacted]
12U	TELLURIUM
[redacted]	[redacted]
25U	THALLIUM
2.5U	VANADIUM
2.5U	YTTRIUM
[redacted]	[redacted]
NA	ZIRCONIUM
0.2U	MERCURY
[redacted]	[redacted]
2.5U	MANGANESE

MG/L	ANALYTICAL RESULTS
[redacted]	[redacted]
4.9	MAGNESIUM
0.017	IRON
1.7	SODIUM
0.50U	POTASSIUM

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

07/25/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO 91-833 SAMPLE NO. 59955 SAMPLE TYPE: PRES BLANK PROG ELEM: NSF COLLECTED BY: GARY BENEFIELD
SOURCE: DICKSON COUNTY LF CITY: DICKSON ST: TN
STATION ID: DC-PB-01A PRES. BLANK COLLECTION START: 07/17/91 1500 STOP: 00/00/00

RESULTS	UNITS	PARAMETER
4.0U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-04
CASE.NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1145 STOP: 00/00/00
D. NO.: AA63 MD NO: AA63

RESULTS	UNITS	PARAMETER
2.70U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00
CASE NO.: 16773 SAS NO.: D. NO.: AA64 MD NO: AA64

RESULTS	UNITS	PARAMETER
3.80U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA65 MD NO: AA65

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA86 MD NO: AA86

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-03
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1340 STOP: 00/00/00
D. NO.: AA67 MD NO: AA67

RESULTS	UNITS	PARAMETER
2.50U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS AMALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA68 MD NO: AA68

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-06
CASE.NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00
D. NO.: AA69 MD NO: AA69

RESULTS	UNITS	PARAMETER
2.50U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA70 MD NO: AA70

RESULTS	UNITS	PARAMETER
2.20U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-02
CASE.NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1125 STOP: 00/00/00
D. NO.: AA71 MD NO: AA71

RESULTS	UNITS	PARAMETER
2.60U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA73 MD NO: AA73

RESULTS	UNITS	PARAMETER
2.10U	MG/KG	CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NA1-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-03
CASE.NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1230 STOP: 00/00/00
D. NO.: AA72 MD NO: AA72

RESULTS	UNITS	PARAMETER
2.70U	MG/KG	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.: D. NO.: AA74 MD NO: AA74

RESULTS	UNITS	PARAMETER
10U	UG/L	CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

METALS DATA REPORT 07/25/91

PROJECT NO. 91-833 SAMPLE NO. 59955 SAMPLE TYPE: PRES BLANK PROG ELEM: NSF COLLECTED BY: GARY BENEFIELD
SOURCE: DICKSON COUNTY LF CITY: DICKSON ST: TN
STATION ID: DC-PB-01A PRES. BLANK COLLECTION START: 07/17/91 1500 STOP: 00/00/00

UG/L	ANALYTICAL RESULTS
2.5U	SILVER
7.5U	ARSENIC
NA	BORON
2.5U	BARIUM
1.2U	BERYLLIUM
1.2U	CADMIUM
2.5U	COBALT
2.5U	CHROMIUM
2.5U	COPPER
2.5U	MOLYBDENUM
5.0U	NICKEL
10U	LEAD
7.5U	ANTIMONY
10U	SELENIUM
6.2U	TIN
2.5U	STRONTIUM
12U	TELLURIUM
2.5U	TITANIUM
25U	THALLIUM
2.5U	VANADIUM
2.5U	YTTRIUM
2.5U	ZINC
NA	ZIRCONIUM
0.2U	MERCURY
50U	ALUMINUM
2.5U	MANGANESE

MG/L	ANALYTICAL RESULTS
0.12U	CALCIUM
0.025U	MAGNESIUM
0.012U	IRON
0.25U	SODIUM
0.50U	POTASSIUM

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA50

UG/L	ANALYTICAL RESULTS
0.050UJ	ALPHA-BHC
0.050UJ	BETA-BHC
0.050UJ	DELTA-BHC
0.050UJ	GAMMA-BHC (LINDANE)
0.050UJ	HEPTACHLOR
0.050UJ	ALDRIN
0.050UJ	HEPTACHLOR EPOXIDE
0.050UJ	ENDOSULFAN I (ALPHA)
0.10UJ	DIELDRIN
0.10UJ	4,4'-DDE (P,P'-DDE)
0.10UJ	ENDRIN
0.10UJ	ENDOSULFAN II (BETA)
0.10UJ	4,4'-DDD (P,P'-DDD)
0.10UJ	ENDOSULFAN SULFATE
0.10UJ	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50UJ	METHOXYCHLOR
0.10UJ	ENDRIN KETONE
0.10UJ	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050UJ	GAMMA-CHLORDANE /2
0.050UJ	ALPHA-CHLORDANE /2
5.0UJ	TOXAPHENE
1.0UJ	PCB-1016 (AROCLOR 1016)
1.0UJ	PCB-1221 (AROCLOR 1221)
2.0UJ	PCB-1232 (AROCLOR 1232)
1.0UJ	PCB-1242 (AROCLOR 1242)
1.0UJ	PCB-1248 (AROCLOR 1248)
1.0UJ	PCB-1254 (AROCLOR 1254)
1.0UJ	PCB-1260 (AROCLOR 1260)

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54458 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA50

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYL CHLORIDE	10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	DIBROMOCHLOROMETHANE
20U	METHYLENE CHLORIDE	10U	1,1,2-TRICHLOROETHANE
20U	ACETONE	10U	BENZENE
10U	CARBON DISULFIDE	10U	TRANS-1,3-DICHLOROPROPENE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U	BROMOFORM
10U	1,1-DICHLOROETHANE	10U	METHYL ISOBUTYL KETONE
10U	1,2-DICHLOROETHENE (TOTAL)	10U	METHYL BUTYL KETONE
10U	CHLOROFORM	10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,2-DICHLOROETHANE	10U	1,1,2,2-TETRACHLOROETHANE
10U	METHYL ETHYL KETONE	10U	TOLUENE
10U	1,1,1-TRICHLOROETHANE	10U	CHLOROBENZENE
10U	CARBON TETRACHLORIDE	10U	ETHYL BENZENE
10U	BROMODICHLOROMETHANE	10U	STYRENE
		10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-286 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA50

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: PW-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 0900 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA57

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
[redacted]	
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
20	[redacted]
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *MAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: PW-01

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 0900 STOP: 00/00/00

D. NO.: AA57

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-286 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: PW-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 0900 STOP: 00/00/00
D. NUMBER: AA57

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA

PURGEABLE ORGANICS DATA REPORT 07/26/91

PROJECT NO. 91-833 SAMPLE NO. 60227 SAMPLE TYPE: DRKWA
SOURCE: DICKSON COUNTY LF
STATION ID: PW-01A PRIVATE WELL

PROG ELEM: NSF COLLECTED BY: R YOUNG
CITY: DICKSON ST: TN
COLLECTION START: 07/24/91 1035 STOP: 00/00/00

UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE
5.0U	VINYL CHLORIDE
5.0U	BROMOMETHANE
5.0U	CHLOROETHANE
5.0U	TRICHLOROFLUOROMETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
50U	ACETONE
12U	CARBON DISULFIDE
5.0U	METHYLENE CHLORIDE
5.0U	TRANS-1,2-DICHLOROETHENE
5.0U	1,1-DICHLOROETHANE
12U	VINYL ACETATE
5.0U	CIS-1,2-DICHLOROETHENE
5.0U	2,2-DICHLOROPROPANE
50U	METHYL ETHYL KETONE
5.0U	BROMOCHLOROMETHANE
5.0U	CHLOROFORM
5.0U	1,1,1-TRICHLOROETHANE
5.0U	1,1-DICHLOROPROPENE
5.0U	CARBON TETRACHLORIDE
5.0U	1,2-DICHLOROETHANE
5.0U	BENZENE
[illegible]	TRICHLOROETHENE(TRICHLOROETHYLENE)
5.0U	1,2-DICHLOROPROPANE
5.0U	DIBROMOMETHANE
5.0U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
5.0U	CIS-1,3-DICHLOROPROPENE
12U	METHYL ISOBUTYL KETONE
5.0U	TOLUENE
5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	1,1,2-TRICHLOROETHANE
5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.0U	1,3-DICHLOROPROPANE
12U	METHYL BUTYL KETONE
5.0U	DIBROMOCHLOROMETHANE
5.0U	CHLOROBENZENE
5.0U	1,1,1,2-TETRACHLOROETHANE
5.0U	ETHYL BENZENE
5.0U	(M- AND/OR P-)XYLENE
5.0U	O-XYLENE
5.0U	STYRENE
5.0U	BROMOFORM
5.0U	BROMOBENZENE
5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	1,2,3-TRICHLOROPROPANE
5.0U	O-CHLOROTOLUENE
5.0U	P-CHLOROTOLUENE
5.0U	1,3-DICHLOROBENZENE
5.0U	1,4-DICHLOROBENZENE
5.0U	1,2-DICHLOROBENZENE

REMARKS

REMARKS

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

07/26/91

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

PROJECT NO. 91-833 SAMPLE NO. 60226 SAMPLE TYPE: BLKWA
SOURCE: DICKSON COUNTY LF
STATION ID: TB-01W TRIP BLANK

PROG ELEM: NSF COLLECTED BY: R YOUNG
CITY: DICKSON ST: TN
COLLECTION START: 07/23/91 STOP: 00/00/00

ANALYTICAL RESULTS UG/L

FOOTNOTE	ACETALDEHYDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 08/02/91

PROJECT NO. 91-833 SAMPLE NO. 59953 SAMPLE TYPE: GRNDWATER PROG ELEM: NSF COLLECTED BY: GARY BENEFIELD
SOURCE: DICKSON COUNTY LF CITY: DICKSON ST: TN
STATION ID: DC-PW-01A, PRIVATE WELL COLLECTION START: 07/18/91 0845 STOP: 00/00/00

UG/L	ANALYTICAL RESULTS
0.10U	ALDRIN
0.10U	HEPTACHLOR
0.10U	HEPTACHLOR EPOXIDE
0.10U	ALPHA-BHC
0.10U	BETA-BHC
0.10U	GAMMA-BHC (LINDANE)
0.10U	DELTA-BHC
0.10U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.25U	4,4'-DDT (P,P'-DDT)
0.25U	4,4'-DDE (P,P'-DDE)
0.25U	4,4'-DDD (P,P'-DDD)
0.25U	ENDRIN
0.25U	ENDOSULFAN II (BETA)
0.25U	ENDOSULFAN SULFATE
0.65U	CHLORDANE (TECH. MIXTURE) /1
1.5U	PCB-1242 (AROCLOR 1242)
1.5U	PCB-1254 (AROCLOR 1254)
1.5U	PCB-1221 (AROCLOR 1221)

UG/L	ANALYTICAL RESULTS
1.5U	PCB-1232 (AROCLOR 1232)
1.5U	PCB-1248 (AROCLOR 1248)
1.5U	PCB-1260 (AROCLOR 1260)
1.5U	PCB-1016 (AROCLOR 1016)
10U	TOXAPHENE
----	CHLORDENE /2
----	ALPHA-CHLORDENE /2
----	BETA CHLORDENE /2
----	GAMMA-CHLORDENE /2
----	GAMMA-CHLORDANE /2
----	TRANS-NONACHLOR /2
----	ALPHA-CHLORDANE /2
----	CIS-NONACHLOR /2
----	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.50U	METHOXYCHLOR
0.25U	ENDRIN KETONE

REMARKS

REMARKS

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

08/01/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-833 SAMPLE NO. 59953 SAMPLE TYPE: GRNDWATER PROG ELEM: NSF COLLECTED BY: GARY BENEFIELD
SOURCE: DICKSON COUNTY LF CITY: DICKSON ST: TN
STATION ID: DC-PW-01A, PRIVATE WELL COLLECTION START: 07/18/91 0945 STOP: 00/00/00

UG/L	ANALYTICAL RESULTS
10U	(3-AND/OR 4-)METHYLPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	2,2'-CHLOROISOPROPYLETHER
10U	2,3,4,6-TETRACHLOROPHENOL
10U	2,4,5-TRICHLOROPHENOL
10U	2,4,6-TRICHLOROPHENOL
10U	2,4-DICHLOROPHENOL
10U	2,4-DIMETHYLPHENOL
20U	2,4-DINITROPHENOL
10U	2,4-DINITROTOLUENE
10U	2,6-DINITROTOLUENE
10U	2-CHLORONAPHTHALENE
10U	2-CHLOROPHENOL
20U	2-METHYL-4,6-DINITROPHENOL
10U	2-METHYLNAPHTHALENE
10U	2-METHYLPHENOL
10U	2-NITROANILINE
10U	2-NITROPHENOL
10U	3,3'-DICHLOROBENZIDINE
10U	3-NITROANILINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	4-CHLORO-3-METHYLPHENOL
10U	4-CHLOROANILINE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	4-NITROANILINE
20U	4-NITROPHENOL
10U	ACENAPHTHENE
10U	ACENAPHTHYLENE
10U	ANTHRACENE
10U	BENZO(A)ANTHRACENE
10U	BENZO(B AND/OR K)FLUORANTHENE

UG/L	ANALYTICAL RESULTS
10U	BENZO(GHI)PERYLENE
10U	BENZO-A-PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	BIS(2-CHLOROETHOXY) METHANE
10U	BIS(2-CHLOROETHYL) ETHER
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	CARBAZOLE
10U	CHRYSENE
10U	DI-N-BUTYLPHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	DIBENZO(A,H)ANTHRACENE
10U	DIBENZOFURAN
10U	DIETHYL PHTHALATE
10U	DIMETHYL PHTHALATE
10U	FLUORANTHENE
10U	FLUORENE
10U	HEXACHLOROBENZENE (HCB)
10U	HEXACHLOROBUTADIENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	HEXACHLOROETHANE
10U	INDENO (1,2,3-CD) PYRENE
10U	ISOPHORONE
10U	N-NITROSODI-N-PROPYLAMINE
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	NAPHTHALENE
10U	NITROBENZENE
20U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	PHENOL
10U	PYRENE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 07/26/91

PROJECT NO. 91-833 SAMPLE NO. 60226 SAMPLE TYPE: BLKWA
SOURCE: DICKSON COUNTY LF
STATION ID: TB-01W TRIP BLANK

PROG ELEM: NSF COLLECTED BY: R YOUNG
CITY: DICKSON ST: TN
COLLECTION START: 07/23/91 STOP: 00/00/00

UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE
5.0U	VINYL CHLORIDE
5.0U	BROMOMETHANE
5.0U	CHLOROETHANE
5.0U	TRICHLOROFLUOROMETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
50U	ACETONE
12U	CARBON DISULFIDE
5.0U	METHYLENE CHLORIDE
5.0U	TRANS-1,2-DICHLOROETHENE
5.0U	1,1-DICHLOROETHANE
12U	VINYL ACETATE
5.0U	CIS-1,2-DICHLOROETHENE
5.0U	2,2-DICHLOROPROPANE
50U	METHYL ETHYL KETONE
5.0U	BROMOCHLOROMETHANE
5.0U	CHLOROFORM
5.0U	1,1,1-TRICHLOROETHANE
5.0U	1,1-DICHLOROPROPENE
5.0U	CARBON TETRACHLORIDE
5.0U	1,2-DICHLOROETHANE
5.0U	BENZENE
5.0U	TRICHLOROETHENE(TRICHLOROETHYLENE)
5.0U	1,2-DICHLOROPROPANE
5.0U	DIBROMOMETHANE
5.0U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
5.0U	CIS-1,3-DICHLOROPROPENE
12U	METHYL ISOBUTYL KETONE
5.0U	TOLUENE
5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	1,1,2-TRICHLOROETHANE
5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.0U	1,3-DICHLOROPROPANE
12U	METHYL BUTYL KETONE
5.0U	DIBROMOCHLOROMETHANE
5.0U	CHLOROBENZENE
5.0U	1,1,1,2-TETRACHLOROETHANE
5.0U	ETHYL BENZENE
5.0U	(M- AND/OR P-)XYLENE
5.0U	O-XYLENE
5.0U	STYRENE
5.0U	BROMOFORM
5.0U	BROMOBENZENE
5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	1,2,3-TRICHLOROPROPANE
5.0U	O-CHLOROTOLUENE
5.0U	P-CHLOROTOLUENE
5.0U	1,3-DICHLOROBENZENE
5.0U	1,4-DICHLOROBENZENE
5.0U	1,2-DICHLOROBENZENE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO: 91-286 SAMPLE NO: 54450 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: MW-01

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1545 STOP: 00/00/00

D. NO.: AA74

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
[redacted]	
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
[redacted]	
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS ***REMARKS***

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: MW-01

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1545 STOP: 00/00/00

D. NO.: AA74

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: MW-01
CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1545 STOP: 00/00/00
D. NO.: AA74 MD NO: AA74

ANALYTICAL RESULTS UG/L

[illegible]
[illegible] NONEXANOIC [illegible]
[illegible] BUTYLIDENEBIS[(DIMETHYLETHYL)METHYL]PHENOL

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA74

UG/L	ANALYTICAL RESULTS
0.05OU	ALPHA-BHC
0.05OU	BETA-BHC
0.05OU	DELTA-BHC
0.05OU	GAMMA-BHC (LINDANE)
0.05OU	HEPTACHLOR
0.05OU	ALDRIN
0.05OU	HEPTACHLOR EPOXIDE
0.05OU	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.05OU	GAMMA-CHLORDANE /2
0.05OU	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

FOOTNOTES
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO LF
STATION ID: MW-02

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1610 STOP: 00/00/00

D. NO.: AA75

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
20U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: MW-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1610 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA75

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA75 MD NO: AA75

ANALYTICAL RESULTS UG/L

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REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-286 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA
SOURCE: DICKSON CO. LF
STATION ID: MW-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1610 STOP: 00/00/00
D. NUMBER: AA75

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-03

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00

D. NO.: AA56

UG/KG	ANALYTICAL RESULTS
420UJ	PHENOL
420UJ	BIS(2-CHLOROETHYL) ETHER
420UJ	2-CHLOROPHENOL
420UJ	1,3-DICHLOROBENZENE
420UJ	1,4-DICHLOROBENZENE
420UJ	1,2-DICHLOROBENZENE
420UJ	2-METHYLPHENOL
420UJ	2,2'-CHLOROISOPROPYLETHER
420UJ	(3-AND/OR 4-)METHYLPHENOL
420UJ	N-NITROSODI-N-PROPYLAMINE
420UJ	HEXACHLOROETHANE
420UJ	NITROBENZENE
420UJ	ISOPHORONE
420UJ	2-NITROPHENOL
420UJ	2,4-DIMETHYLPHENOL
420UJ	BIS(2-CHLOROETHOXY) METHANE
420UJ	2,4-DICHLOROPHENOL
420UJ	1,2,4-TRICHLOROBENZENE
420UJ	NAPHTHALENE
420UJ	4-CHLOROANILINE
420UJ	HEXACHLOROBUTADIENE
420UJ	4-CHLORO-3-METHYLPHENOL
420UJ	2-METHYLNAPHTHALENE
420UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
420UJ	2,4,6-TRICHLOROPHENOL
2200UJ	2,4,5-TRICHLOROPHENOL
420UJ	2-CHLORONAPHTHALENE
2200UJ	2-NITROANILINE
420UJ	DIMETHYL PHTHALATE
420UJ	ACENAPHTHYLENE
420UJ	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200UJ	3-NITROANILINE
420UJ	ACENAPHTHENE
2200UJ	2,4-DINITROPHENOL
2200UJ	4-NITROPHENOL
420UJ	DIBENZOFURAN
420UJ	2,4-DINITROTOLUENE
420UJ	DIETHYL PHTHALATE
420UJ	4-CHLOROPHENYL PHENYL ETHER
420UJ	FLUORENE
2200UJ	4-NITROANILINE
2200UJ	2-METHYL-4,6-DINITROPHENOL
420UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
420UJ	4-BROMOPHENYL PHENYL ETHER
420UJ	HEXACHLOROBENZENE (HCB)
2200UJ	PENTACHLOROPHENOL
420UJ	PHENANTHRENE
420UJ	ANTHRACENE
420UJ	CARBAZOLE
420UJ	DI-N-BUTYLPHTHALATE
420UJ	FLUORANTHENE
420UJ	PYRENE
420UJ	BENZYL BUTYL PHTHALATE
420UJ	3,3'-DICHLOROBENZIDINE
420UJ	BENZO(A)ANTHRACENE
420UJ	CHRYSENE
420UJ	BIS(2-ETHYLHEXYL) PHTHALATE
420UJ	DI-N-OCTYLPHTHALATE
420UJ	BENZO(B AND/OR K)FLUORANTHENE
420UJ	BENZO-A-PYRENE
420UJ	INDENO (1,2,3-CD) PYRENE
420UJ	DIBENZO(A,H)ANTHRACENE
420UJ	BENZO(GHI)PERYLENE
22	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-09
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM. NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00
D. NUMBER: AA56

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.1U	GAMMA-CHLORDANE /2
2.1U	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
84U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
22	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO: 91-286 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA58

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYL CHLORIDE	10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	DIBROMOCHLOROMETHANE
20U	METHYLENE CHLORIDE	10U	1,1,2-TRICHLOROETHANE
10U	ACETONE	10U	BENZENE
10U	CARBON DISULFIDE	10U	TRANS-1,3-DICHLOROPROPENE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U	BROMOFORM
10U	1,1-DICHLOROETHANE	10U	METHYL ISOBUTYL KETONE
10U	1,2-DICHLOROETHENE (TOTAL)	10U	METHYL BUTYL KETONE
10U	CHLOROFORM	10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,2-DICHLOROETHANE	10U	1,1,2,2-TETRACHLOROETHANE
40U	METHYL ETHYL KETONE	10U	TOLUENE
10U	1,1,1-TRICHLOROETHANE	10U	CHLOROBENZENE
10U	CARBON TETRACHLORIDE	10U	ETHYL BENZENE
10U	BROMODICHLOROMETHANE	10U	STYRENE
		10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1010 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA58

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
[redacted]	
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1010 STOP: 00/00/00
D. NUMBER: AA58

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
[illegible]	[illegible] (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS ***REMARKS***

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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•C-CONFIRMED BY GCMS /1. WHEN NO VALUE IS REPORTED. SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA65

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
80U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
[redacted]	[redacted]-ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
8J	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
8J	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
1J	TOTAL XYLENES

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-268 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1216 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA65

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
[redacted]	
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266	SAMPLE NO. 54441	SAMPLE TYPE: SURFACEWA	PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON ST: TN
STATION ID: SW-02			COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE.NO.: 15773	SAS NO.:		D. NO.: AA65 MD NO: AA65

ANALYTICAL RESULTS UG/L

30UN	[illegible]
6UN	CYCLOHEXANECARBOXYLIC ACID
6UN	DIETHYLMETHYLBENZAMIDE
20J	1 UNIDENTIFIED COMPOUND

•••FOOTNOTES•••
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1215 STOP: 00/00/00
D. NUMBER: AA65

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
[illegible]	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS ***REMARKS***

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-03

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1330 STOP: 00/00/00

D. NO.: A486

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
- A-AVERAGE VALUE
- NA-NOT ANALYZED
- NAI-INTERFERENCES
- J-ESTIMATED VALUE
- N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-03

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1330 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA66

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-OXYBIS(1-CHLOROPROPANE)
10U	(3- AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO LF
STATION ID: SW-03
CASE NUMBER: 15773 SAS NUMBER:
PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1330 STOP: 00/00/00
D. NUMBER: AA66

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 64438 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-04

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1140 STOP: 00/00/00

D. NO.: AA62

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-288 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA62

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA62

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)

UG/L	ANALYTICAL RESULTS
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS ***REMARKS***

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA60

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHEME(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-268 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA60

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,2'-CHLOROISOPROPYLETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF	CITY: DICKSON ST: TN
STATION ID: SW-05	COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.:	D. NO.: AA60 MD NO: AA60

ANALYTICAL RESULTS UG/L

[redacted]DIETHYLBETHYLBENZAMIDE
4JH BENZOTHIAZOLONE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA60

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 64444 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-06

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1440 STOP: 00/00/00

D. NO.: AA68

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
10U	1,2-DICHLOROPROPANE
10U	CIS-1,3-DICHLOROPROPENE
10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	DIBROMOCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA
SOURCE: DICKSON CO. LF
STATION ID: SW-06

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1440 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA68

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	2,2'-CHLOROISOPROPYLETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
10UJ	HEXACHLOROBUTADIENE
10UJ	4-CHLORO-3-METHYLPHENOL
10UJ	2-METHYLNAPHTHALENE
10UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ	2,4,6-TRICHLOROPHENOL
50UJ	2,4,5-TRICHLOROPHENOL
10UJ	2-CHLORONAPHTHALENE
50UJ	2-NITROANILINE
10UJ	DIMETHYL PHTHALATE
10UJ	ACENAPHTHYLENE
10UJ	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50UJ	3-NITROANILINE
10UJ	ACENAPHTHENE
50UJ	2,4-DINITROPHENOL
50UJ	4-NITROPHENOL
10UJ	DIBENZOFURAN
10UJ	2,4-DINITROTOLUENE
10UJ	DIETHYL PHTHALATE
10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	FLUORENE
50UJ	4-NITROANILINE
50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	CARBAZOLE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
10UJ	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-OCTYLPHTHALATE
10UJ	BENZO(B AND/OR K)FLUORANTHENE
10UJ	BENZO-A-PYRENE
10UJ	INDENO (1,2,3-CD) PYRENE
10UJ	DIBENZO(A,H)ANTHRACENE
10UJ	BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136,OCTOBER 26,1984)

REMARKS

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA68

UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	DELTA-BHC
0.050U	GAMMA-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.10U	4,4'-DDE (P,P'-DDE)
0.10U	ENDRIN
0.10U	ENDOSULFAN II (BETA)
0.10U	4,4'-DDD (P,P'-DDD)
0.10U	ENDOSULFAN SULFATE
0.10U	4,4'-DDT (P,P'-DDT)
0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54457 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: TB-OTS

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1300 STOP: 00/00/00

O. NO.: AA51

UG/KG	ANALYTICAL RESULTS
14U	CHLOROMETHANE
14U	BROMOMETHANE
14U	VINYL CHLORIDE
14U	CHLOROETHANE
30U	METHYLENE CHLORIDE
14U	ACETONE
14U	CARBON DISULFIDE
14U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
14U	1,1-DICHLOROETHANE
14U	1,2-DICHLOROETHENE (TOTAL)
14U	CHLOROFORM
14U	1,2-DICHLOROETHANE
14U	METHYL ETHYL KETONE
14U	1,1,1-TRICHLOROETHANE
14U	CARBON TETRACHLORIDE
14U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
14U	1,2-DICHLOROPROPANE
14U	CIS-1,3-DICHLOROPROPENE
14U	TRICHLOROETHENE(TRICHLOROETHYLENE)
14U	DIBROMOCHLOROMETHANE
14U	1,1,2-TRICHLOROETHANE
14U	BENZENE
14U	TRANS-1,3-DICHLOROPROPENE
14U	BROMOFORM
14U	METHYL ISOBUTYL KETONE
14U	METHYL BUTYL KETONE
14U	TETRACHLOROETHENE(TETRACHLORDETHYLENE)
14U	1,1,2,2-TETRACHLOROETHANE
14U	TOLUENE
14U	CHLOROBENZENE
14U	ETHYL BENZENE
14U	STYRENE
14U	TOTAL XYLENES
28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1515 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA52

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLOROETHANE
20U	METHYLENE CHLORIDE
13U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
13U	CHLOROFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAJ-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1515 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA52

UG/KG	ANALYTICAL RESULTS
430U	PHENOL
430U	BIS(2-CHLOROETHYL) ETHER
430U	2-CHLOROPHENOL
430U	1,3-DICHLOROBENZENE
430U	1,4-DICHLOROBENZENE
430U	1,2-DICHLOROBENZENE
430U	2-METHYLPHENOL
430U	2,2'-CHLOROISOPROPYLETHER
430U	(3-AND/OR 4-)METHYLPHENOL
430U	N-NITROSODI-N-PROPYLAMINE
430U	HEXACHLOROETHANE
430U	NITROBENZENE
430U	ISOPHORONE
430U	2-NITROPHENOL
430U	2,4-DIMETHYLPHENOL
430U	BIS(2-CHLOROETHOXY) METHANE
430U	2,4-DICHLOROPHENOL
430U	1,2,4-TRICHLOROBENZENE
430U	NAPHTHALENE
430U	4-CHLOROANILINE
430U	HEXACHLOROBUTADIENE
430U	4-CHLORO-3-METHYLPHENOL
430U	2-METHYLNAPHTHALENE
430U	HEXACHLOROCYCLOPENTADIENE (HCCP)
430U	2,4,6-TRICHLOROPHENOL
2200U	2,4,5-TRICHLOROPHENOL
430U	2-CHLORONAPHTHALENE
2200U	2-NITROANILINE
430U	DIMETHYL PHTHALATE
430U	ACENAPHTHYLENE
430U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200U	3-NITROANILINE
430U	ACENAPHTHENE
2200U	2,4-DINITROPHENOL
2200U	4-NITROPHENOL
430U	DIBENZOFURAN
430U	2,4-DINITROTOLUENE
430U	DIETHYL PHTHALATE
430U	4-CHLOROPHENYL PHENYL ETHER
430U	FLUORENE
2200U	4-NITROANILINE
2200U	2-METHYL-4,6-DINITROPHENOL
430U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
430U	4-BROMOPHENYL PHENYL ETHER
430U	HEXACHLOROBENZENE (HCB)
2200U	PENTACHLOROPHENOL
430U	PHENANTHRENE
430U	ANTHRACENE
430U	CARBAZOLE
430U	DI-N-BUTYLPHTHALATE
430U	FLUORANTHENE
430U	PYRENE
430U	BENZYL BUTYL PHTHALATE
430U	3,3'-DICHLOROBENZIDINE
430U	BENZO(A)ANTHRACENE
430U	CHRYSENE
430U	BIS(2-ETHYLHEXYL) PHTHALATE
430U	DI-N-OCTYLPHTHALATE
430U	BENZO(B AND/OR K)FLUORANTHENE
430U	BENZO-A-PYRENE
430U	INDENO (1,2,3-CD) PYRENE
430U	DIBENZO(A,H)ANTHRACENE
430U	BENZO(GHI)PERYLENE
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
•R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268	SAMPLE NO. 54428	SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON ST: TN
STATION ID: SS-01			COLLECTION START: 01/28/91 1515 STOP: 00/00/00
CASE.NO.: 15773	SAS NO.:		D. NO.: AA52 MD NO: AA52

ANALYTICAL RESULTS UG/KG

9000J	2 UNIDENTIFIED COMPOUNDS

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 01-288 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1515 STOP: 00/00/00
D. NUMBER: AA52

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
[illegible]	[illegible]
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
2.2U	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.3U	DIELDRIN
[illegible]	[illegible]
4.3U	ENDRIN
4.3U	ENDOSULFAN II (BETA)
[illegible]	[illegible]
4.3U	ENDOSULFAN SULFATE
[illegible]	[illegible]

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.3U	ENDRIN KETONE
4.3U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
[illegible]	[illegible] /2
[illegible]	ALPHA-CHLORDANE /2
220U	TOXAPHENE
43U	PCB-1016 (AROCLOR 1016)
43U	PCB-1221 (AROCLOR 1221)
87U	PCB-1232 (AROCLOR 1232)
43U	PCB-1242 (AROCLOR 1242)
43U	PCB-1248 (AROCLOR 1248)
43U	PCB-1254 (AROCLOR 1254)
43U	PCB-1260 (AROCLOR 1260)
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA70

UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE
12U	BROMOMETHANE
12U	VINYL CHLORIDE
12U	CHLOROETHANE
40U	METHYLENE CHLORIDE
12U	ACETONE
12U	CARBON DISULFIDE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
12U	1,1-DICHLOROETHANE
12U	1,2-DICHLOROETHENE (TOTAL)
12U	CHLOROFORM
12U	1,2-DICHLOROETHANE
12U	METHYL ETHYL KETONE
12U	1,1,1-TRICHLOROETHANE
12U	CARBON TETRACHLORIDE
12U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
12U	1,2-DICHLOROPROPANE
12U	CIS-1,3-DICHLOROPROPENE
12U	TRICHLOROETHENE(TRICHLOROETHYLENE)
12U	DIBROMOCHLOROMETHANE
12U	1,1,2-TRICHLOROETHANE
12U	BENZENE
12U	TRANS-1,3-DICHLOROPROPENE
12U	BROMOFORM
12U	METHYL ISOBUTYL KETONE
12U	METHYL BUTYL KETONE
12U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12U	1,1,2,2-TETRACHLOROETHANE
12U	TOLUENE
12U	CHLOROBENZENE
12U	ETHYL BENZENE
12U	STYRENE
12U	TOTAL XYLENES
19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-268 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA70

UG/KG	ANALYTICAL RESULTS
400U	PHENOL
400U	BIS(2-CHLOROETHYL) ETHER
400U	2-CHLOROPHENOL
400U	1,3-DICHLOROBENZENE
400U	1,4-DICHLOROBENZENE
400U	1,2-DICHLOROBENZENE
400U	2-METHYLPHENOL
400U	2,2'-CHLOROISOPROPYLETHER
400U	(3-AND/OR 4-)METHYLPHENOL
400U	N-NITROSODI-N-PROPYLAMINE
400U	HEXACHLOROETHANE
400U	NITROBENZENE
400U	ISOPHORONE
400U	2-NITROPHENOL
400U	2,4-DIMETHYLPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE
400U	2,4-DICHLOROPHENOL
400U	1,2,4-TRICHLOROBENZENE
400U	NAPHTHALENE
400U	4-CHLOROANILINE
400U	HEXACHLOROBUTADIENE
400U	4-CHLORO-3-METHYLPHENOL
400U	2-METHYLNAPHTHALENE
400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
400U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
400U	2-CHLORONAPHTHALENE
2100U	2-NITROANILINE
[redacted]	DIMETHYL PHTHALATE
400U	ACENAPHTHYLENE
400U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
400U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
400U	DIBENZOFURAN
400U	2,4-DINITROTOLUENE
400U	DIETHYL PHTHALATE
400U	4-CHLOROPHENYL PHENYL ETHER
400U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U	4-BROMOPHENYL PHENYL ETHER
400U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
67J	PHENANTHRENE
400U	ANTHRACENE
400U	CARBAZOLE
400U	DI-N-BUTYLPHTHALATE
85J	FLUORANTHENE
88J	PYRENE
400U	BENZYL BUTYL PHTHALATE
400U	3,3'-DICHLOROBENZIDINE
42J	BENZO(A)ANTHRACENE
400U	CHRYSENE
400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	DI-N-OCTYLPHTHALATE
400U	BENZO(B AND/OR K)FLUORANTHENE
400U	BENZO-A-PYRENE
400U	INDENO (1,2,3-CD) PYRENE
400U	DIBENZO(A,H)ANTHRACENE
400U	BENZO(GHI)PERYLENE
19	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA70 MD NO: AA70

ANALYTICAL RESULTS UG/KG

4000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA-REPORT

PROJECT NO. 01-286 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1035 STOP: 00/00/00
D. NUMBER: AA70

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
7.2U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
[redacted]	CHLORDANE /2
0.37J	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
82U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-03

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1230 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA72

UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE
12U	BROMOMETHANE
12U	VINYL CHLORIDE
12U	CHLOROETHANE
60U	METHYLENE CHLORIDE
12U	ACETONE
12U	CARBON DISULFIDE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
12U	1,1-DICHLOROETHANE
12U	1,2-DICHLOROETHENE (TOTAL)
12U	CHLOROFORM
12U	1,2-DICHLOROETHANE
12U	METHYL ETHYL KETONE
12U	1,1,1-TRICHLOROETHANE
12U	CARBON TETRACHLORIDE
12U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
12U	1,2-DICHLOROPROPANE
12U	CIS-1,3-DICHLOROPROPENE
12U	TRICHLOROETHENE(TRICHLOROETHYLENE)
12U	DIBROMOCHLOROMETHANE
12U	1,1,2-TRICHLOROETHANE
12U	BENZENE
12U	TRANS-1,3-DICHLOROPROPENE
12U	BROMOFORM
12U	METHYL ISOBUTYL KETONE
12U	METHYL BUTYL KETONE
12U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12U	1,1,2,2-TETRACHLOROETHANE
12U	TOLUENE
12U	CHLOROBENZENE
12U	ETHYL BENZENE
12U	STYRENE
12U	TOTAL XYLENES
19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-03

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1230 STOP: 00/00/00

D. NO.: AA72

UG/KG	ANALYTICAL RESULTS
400U	PHENOL
400U	BIS(2-CHLOROETHYL) ETHER
400U	2-CHLOROPHENOL
400U	1,3-DICHLOROBENZENE
400U	1,4-DICHLOROBENZENE
400U	1,2-DICHLOROBENZENE
400U	2-METHYLPHENOL
400U	2,2'-CHLOROISOPROPYLETHER
400U	(3-AND/OR 4-)METHYLPHENOL
400U	N-NITROSODI-N-PROPYLAMINE
400U	HEXACHLOROETHANE
400U	NITROBENZENE
400U	ISOPHORONE
400U	2-NITROPHENOL
400U	2,4-DIMETHYLPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE
400U	2,4-DICHLOROPHENOL
400U	1,2,4-TRICHLOROBENZENE
400U	NAPHTHALENE
400U	4-CHLOROANILINE
400U	HEXACHLOROBUTADIENE
400U	4-CHLORO-3-METHYLPHENOL
400U	2-METHYLNAPHTHALENE
400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
400U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
400U	2-CHLORONAPHTHALENE
2100U	2-NITROANILINE
400U	DIMETHYL PHTHALATE
400U	ACENAPHTHYLENE
400U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
400U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
400U	DIBENZOFURAN
400U	2,4-DINITROTOLUENE
400U	DIETHYL PHTHALATE
400U	4-CHLOROPHENYL PHENYL ETHER
400U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U	4-BROMOPHENYL PHENYL ETHER
400U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
400U	PHENANTHRENE
400U	ANTHRACENE
400U	CARBAZOLE
400U	DI-N-BUTYLPHTHALATE
400U	FLUORANTHENE
400U	PYRENE
400U	BENZYL BUTYL PHTHALATE
400U	3,3'-DICHLOROBENZIDINE
400U	BENZO(A)ANTHRACENE
400U	CHRYSENE
400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	DI-N-OCTYLPHTHALATE
400U	BENZO(B AND/OR K)FLUORANTHENE
400U	BENZO-A-PYRENE
400U	INDENO (1,2,3-CD) PYRENE
400U	DIBENZO(A,H)ANTHRACENE
400U	BENZO(GHI)PERYLENE
19	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268	SAMPLE NO. 54448 SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF		CITY: DICKSON ST: TN
STATION ID: SS-03		COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NO.: 15773	SAS NO.:	D. NO.: AA72 MD NO: AA72

ANALYTICAL RESULTS UG/KG

A0000J 10 UNIDENTIFIED COMPOUNDS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1230 STOP: 00/00/00
D. NUMBER: AA72

UG/KG	ANALYTICAL RESULTS
2.1UR	ALPHA-BHC
2.1UR	BETA-BHC
2.1UR	DELTA-BHC
2.1UR	GAMMA-BHC (LINDANE)
2.1UR	HEPTACHLOR
2.1UR	ALDRIN
2.1UR	HEPTACHLOR EPOXIDE
2.1UR	ENDOSULFAN I (ALPHA)
4.0UR	DIELDRIN
[illegible]	[illegible]-DDE (P,P'-DDE)
4.0UR	ENDRIN
4.0UR	ENDOSULFAN II (BETA)
[illegible]	[illegible]-DDD (P,P'-DDD)
4.0UR	ENDOSULFAN SULFATE
[illegible]	[illegible]-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21UR	METHOXYCHLOR
4.0UR	ENDRIN KETONE
4.0UR	ENDRIN ALDEHYDE
—	CHLORDANE (TECH. MIXTURE) /1
2.1UR	GAMMA-CHLORDANE /2
2.1UR	ALPHA-CHLORDANE /2
21OUR	TOXAPHENE
40UR	PCB-1016 (AROCLOR 1016)
40UR	PCB-1221 (AROCLOR 1221)
81UR	PCB-1232 (AROCLOR 1232)
40UR	PCB-1242 (AROCLOR 1242)
40UR	PCB-1248 (AROCLOR 1248)
40UR	PCB-1254 (AROCLOR 1254)
40UR	PCB-1260 (AROCLOR 1260)
19	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. S442D SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-01

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1530 STOP: 00/00/00

D. NO.: AA53

UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE
12U	BROMOMETHANE
12U	VINYL CHLORIDE
12U	CHLOROETHANE
12U	METHYLENE CHLORIDE
12U	ACETONE
12U	CARBON DISULFIDE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
12U	1,1-DICHLOROETHANE
12U	1,2-DICHLOROETHENE (TOTAL)
12U	CHLOROFORM
12U	1,2-DICHLOROETHANE
12U	METHYL ETHYL KETONE
12U	1,1,1-TRICHLOROETHANE
12U	CARBON TETRACHLORIDE
12U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
12U	1,2-DICHLOROPROPANE
12U	CIS-1,3-DICHLOROPROPENE
12U	TRICHLOROETHENE(TRICHLOROETHYLENE)
12U	DIBROMOCHLOROMETHANE
12U	1,1,2-TRICHLOROETHANE
12U	BENZENE
12U	TRANS-1,3-DICHLOROPROPENE
12U	BROMOFORM
12U	METHYL ISOBUTYL KETONE
12U	METHYL BUTYL KETONE
12U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12U	1,1,2,2-TETRACHLOROETHANE
12U	TOLUENE
12U	CHLOROBENZENE
12U	ETHYL BENZENE
12U	STYRENE
12U	TOTAL XYLENES
18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 01-266 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1530 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA53

UG/KG	ANALYTICAL RESULTS
400U	PHENOL
400U	BIS(2-CHLOROETHYL) ETHER
400U	2-CHLOROPHENOL
400U	1,3-DICHLOROBENZENE
400U	1,4-DICHLOROBENZENE
400U	1,2-DICHLOROBENZENE
400U	2-METHYLPHENOL
400U	2,2'-CHLOROISOPROPYLETHER
400U	(3-AND/OR 4-)METHYLPHENOL
400U	N-NITROSODI-N-PROPYLAMINE
400U	HEXACHLOROETHANE
400U	NITROBENZENE
400U	ISOPHORONE
400U	2-NITROPHENOL
400U	2,4-DIMETHYLPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE
400U	2,4-DICHLOROPHENOL
400U	1,2,4-TRICHLOROBENZENE
400U	NAPHTHALENE
400U	4-CHLORDANILINE
400U	HEXACHLOROBUTADIENE
400U	4-CHLORO-3-METHYLPHENOL
400U	2-METHYLNAPHTHALENE
400U	HEXACHLOROCYCLOPENTADIENE (HCCP)
400U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
400U	2-CHLORONAPHTHALENE
2100U	2-NITROANILINE
400U	DIMETHYL PHTHALATE
400U	ACENAPHTHYLENE
400U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
400U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
400U	DIBENZOFURAN
400U	2,4-DINITROTOLUENE
400U	DIETHYL PHTHALATE
400U	4-CHLOROPHENYL PHENYL ETHER
400U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
400U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U	4-BROMOPHENYL PHENYL ETHER
400U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
400U	PHENANTHRENE
400U	ANTHRACENE
400U	CARBAZOLE
400U	DI-N-BUTYLPHTHALATE
400U	FLUORANTHENE
400U	PYRENE
400U	BENZYL BUTYL PHTHALATE
400U	3,3'-DICHLORDBENZIDINE
400U	BENZO(A)ANTHRACENE
400U	CHRYSENE
400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	DI-N-OCTYLPHTHALATE
400U	BENZO(B AND/OR K)FLUORANTHENE
400U	BENZO-A-PYRENE
400U	INDENO (1,2,3-CD) PYRENE
400U	DIBENZO(A,H)ANTHRACENE
400U	BENZO(GHI)PERYLENE
18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA53 MD NO: AA53

ANALYTICAL RESULTS UG/KG

~~6000~~ 1 UNIDENTIFIED COMPOUND~~*~~

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-01
CASE NUMBER: 15773 SAS NUMBER:
PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1530 STOP: 00/00/00
D. NUMBER: AA53

UG/KG	ANALYTICAL RESULTS
2.0U	ALPHA-BHC
2.0U	BETA-BHC
2.0U	DELTA-BHC
2.0U	GAMMA-BHC (LINDANE)
2.0U	HEPTACHLOR
[redacted]	
2.0U	HEPTACHLOR EPOXIDE
2.0U	ENDOSULFAN I (ALPHA)
4.0U	DIELDRIN
4.0U	4,4'-DDE (P,P'-DDE)
4.0U	ENDRIN
4.0U	ENDOSULFAN II (BETA)
4.0U	4,4'-DDD (P,P'-DDD)
4.0U	ENDOSULFAN SULFATE
4.0U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
20U	METHOXYCHLOR
4.0U	ENDRIN KETONE
4.0U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
[redacted]	GAMMA-CHLORDANE /2
[redacted]	ALPHA-CHLORDANE /2
200U	TOXAPHENE
40U	PCB-1016 (AROCLOR 1016)
40U	PCB-1221 (AROCLOR 1221)
80U	PCB-1232 (AROCLOR 1232)
40U	PCB-1242 (AROCLOR 1242)
40U	PCB-1248 (AROCLOR 1248)
40U	PCB-1254 (AROCLOR 1254)
40U	PCB-1260 (AROCLOR 1260)
18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*C-CONFIRMED BY GCMS /1 WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-288 SAMPLE NO. 54447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF
STATION ID: SB-02

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1125 STOP: 00/00/00

D. NO.: AA71

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLORDETHANE
70U	METHYLENE CHLORIDE
13U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
13U	CHLORDFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
21	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1125 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA71

UG/KG	ANALYTICAL RESULTS
410U	PHENOL
410U	BIS(2-CHLOROETHYL) ETHER
410U	2-CHLOROPHENOL
410U	1,3-DICHLOROBENZENE
410U	1,4-DICHLOROBENZENE
410U	1,2-DICHLOROBENZENE
410U	2-METHYLPHENOL
410U	2,2'-CHLORDISOPROPYLETHER
410U	(3-AND/OR 4-)METHYLPHENOL
410U	N-NITROSODI-N-PROPYLAMINE
410U	HEXACHLOROETHANE
410U	NITROBENZENE
410U	ISOPHORONE
410U	2-NITROPHENOL
410U	2,4-DIMETHYLPHENOL
410U	BIS(2-CHLOROETHOXY) METHANE
410U	2,4-DICHLOROPHENOL
410U	1,2,4-TRICHLOROBENZENE
410U	4-CHLOROANILINE
410U	HEXACHLOROBUTADIENE
410U	4-CHLORO-3-METHYLPHENOL
410U	2-METHYLNAPHTHALENE
410U	HEXACHLOROCYCLOPENTADIENE (HCCP)
410U	2,4,6-TRICHLOROPHENOL
2100U	2,4,5-TRICHLOROPHENOL
410U	2-CHLORONAPHTHALENE
2100U	2-NITROANILINE
410U	DIMETHYL PHTHALATE
410U	ACENAPHTHYLENE
410U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2100U	3-NITROANILINE
410U	ACENAPHTHENE
2100U	2,4-DINITROPHENOL
2100U	4-NITROPHENOL
410U	DIBENZOFURAN
410U	2,4-DINITROTOLUENE
410U	DIETHYL PHTHALATE
410U	4-CHLOROPHENYL PHENYL ETHER
410U	FLUORENE
2100U	4-NITROANILINE
2100U	2-METHYL-4,6-DINITROPHENOL
410U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
410U	4-BROMOPHENYL PHENYL ETHER
410U	HEXACHLOROBENZENE (HCB)
2100U	PENTACHLOROPHENOL
410U	PHENANTHRENE
410U	ANTHRACENE
410U	CARBAZOLE
410U	DI-N-BUTYLPHTHALATE
410U	FLUORANTHENE
410U	PYRENE
410U	BENZYL BUTYL PHTHALATE
410U	3,3'-DICHLOROBENZIDINE
410U	BENZO(A)ANTHRACENE
410U	CHRYSENE
410U	BIS(2-ETHYLHEXYL) PHTHALATE
410U	DI-N-OCTYLPHTHALATE
410U	BENZO(B AND/OR K)FLUORANTHENE
410U	BENZO-A-PYRENE
410U	INDENO (1,2,3-CD) PYRENE
410U	DIBENZO(A,H)ANTHRACENE
410U	BENZO(GHI)PERYLENE
21	PERCENT MOISTURE

FOOTNOTES
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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. S4447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: S8-02
CASE NUMBER: 15773 SAS NUMBER.

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1125 STOP: 00/00/00
D. NUMBER: AA71

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.7U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.1U	GAMMA-CHLORDANE /2
2.1U	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
83U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
21	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NA1-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-03

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00

D. NO.: AA73

UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE
12U	BROMOMETHANE
12U	VINYL CHLORIDE
12U	CHLOROETHANE
40U	METHYLENE CHLORIDE
50U	ACETONE
12U	CARBON DISULFIDE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
12U	1,1-DICHLOROETHANE
12U	1,2-DICHLOROETHENE (TOTAL)
12U	CHLOROFORM
12U	1,2-DICHLOROETHANE
12U	METHYL ETHYL KETONE
12U	1,1,1-TRICHLOROETHANE
12U	CARBON TETRACHLORIDE
12U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
12U	1,2-DICHLOROPROPANE
12U	CIS-1,3-DICHLOROPROPENE
12U	TRICHLOROETHENE(TRICHLOROETHYLENE)
12U	DIBROMOCHLOROMETHANE
12U	1,1,2-TRICHLOROETHANE
12U	BENZENE
12U	TRANS-1,3-DICHLOROPROPENE
12U	BROMOFORM
12U	METHYL ISOBUTYL KETONE
12U	METHYL BUTYL KETONE
12U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12U	1,1,2,2-TETRACHLOROETHANE
12U	TOLUENE
12U	CHLOROBENZENE
12U	ETHYL BENZENE
12U	STYRENE
12U	TOTAL XYLENES
20	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-03

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00

D. NO.: AA73

UG/KG	ANALYTICAL RESULTS
1600U	PHENOL
1600U	BIS(2-CHLOROETHYL) ETHER
1600U	2-CHLOROPHENOL
1600U	1,3-DICHLOROBENZENE
1600U	1,4-DICHLOROBENZENE
1600U	1,2-DICHLOROBENZENE
1600U	2-METHYLPHENOL
1600U	2,2'-CHLOROISOPROPYLETHER
1600U	(3-AND/OR 4-)METHYLPHENOL
1600U	N-NITROSODI-N-PROPYLAMINE
1600U	HEXACHLOROETHANE
1600U	NITROBENZENE
1600U	ISOPHORONE
1600U	2-NITROPHENOL
1600U	2,4-DIMETHYLPHENOL
1600U	BIS(2-CHLOROETHOXY) METHANE
1600U	2,4-DICHLOROPHENOL
1600U	1,2,4-TRICHLOROBENZENE
[redacted]	NAPHTHALENE
1600U	4-CHLOROANILINE
1600U	HEXACHLOROBUTADIENE
1600U	4-CHLORO-3-METHYLPHENOL
1600U	2-METHYLNAPHTHALENE
1600U	HEXACHLOROCYCLOPENTADIENE (HCCP)
1600U	2,4,6-TRICHLOROPHENOL
8400U	2,4,5-TRICHLOROPHENOL
1600U	2-CHLORONAPHTHALENE
8400U	2-NITROANILINE
1600U	DIMETHYL PHTHALATE
1600U	ACENAPHTHYLENE
1600U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
8400U	3-NITROANILINE
1600U	ACENAPHTHENE
8400U	2,4-DINITROPHENOL
8400U	4-NITROPHENOL
1600U	DIBENZOFURAN
1600U	2,4-DINITROTOLUENE
1600U	DIETHYL PHTHALATE
1600U	4-CHLOROPHENYL PHENYL ETHER
1600U	FLUORENE
8400U	4-NITROANILINE
8400U	2-METHYL-4,6-DINITROPHENOL
1600U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1600U	4-BROMOPHENYL PHENYL ETHER
1600U	HEXACHLOROBENZENE (HCB)
8400U	PENTACHLOROPHENOL
1600U	PHENANTHRENE
1600U	ANTHRACENE
1600U	CARBAZOLE
1600U	DI-N-BUTYLPHTHALATE
1600U	FLUORANTHENE
1600U	PYRENE
1600U	BENZYL BUTYL PHTHALATE
1600U	3,3'-DICHLOROBENZIDINE
1600U	BENZO(A)ANTHRACENE
1600U	CHRYSENE
1600U	BIS(2-ETHYLHEXYL) PHTHALATE
1600U	DI-N-OCTYLPHTHALATE
1600U	BENZO(B AND/OR K)FLUORANTHENE
1600U	BENZO-A-PYRENE
1600U	INDENO (1,2,3-CD) PYRENE
1600U	DIBENZO(A,H)ANTHRACENE
1600U	BENZO(GHI)PERYLENE
20	PERCENT MOISTURE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
•R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - - DATA REPORT

PROJECT NO. 91-206 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA73 MD NO: AA73

ANALYTICAL RESULTS UG/KG

~~40000 J~~ ~~2 UNIDENTIFIED COMPOUNDS~~
N PETROLEUM PRODUCT

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
•R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SB-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1250 STOP: 00/00/00
D. NUMBER. AA73

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
3.8U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
[redacted]	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
6.0U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
PQ	GAMMA-CHLORDANE /9
9G	ALPHA-CHLORDANE /R
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
82U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
20	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA59

UG/KG	ANALYTICAL RESULTS
15U	CHLOROMETHANE
15U	BROMOMETHANE
15U	VINYL CHLORIDE
15U	CHLOROETHANE
30U	METHYLENE CHLORIDE
15U	ACETONE
15U	CARBON DISULFIDE
15U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
15U	1,1-DICHLOROETHANE
15U	1,2-DICHLOROETHENE (TOTAL)
[redacted]	
15U	1,2-DICHLOROETHANE
15U	METHYL ETHYL KETONE
15U	1,1,1-TRICHLOROETHANE
15U	CARBON TETRACHLORIDE
15U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
15U	1,2-DICHLOROPROPANE
15U	CIS-1,3-DICHLOROPROPENE
15U	TRICHLOROETHENE(TRICHLOROETHYLENE)
15U	DIBROMOCHLOROMETHANE
15U	1,1,2-TRICHLOROETHANE
15U	BENZENE
15U	TRANS-1,3-DICHLOROPROPENE
15U	BROMOFORM
15U	METHYL ISOBUTYL KETONE
15U	METHYL BUTYL KETONE
15U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
15U	1,1,2,2-TETRACHLOROETHANE
15U	TOLUENE
15U	CHLOROBENZENE
15U	ETHYL BENZENE
15U	STYRENE
15U	TOTAL XYLENES
34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

EXTRACTABLE ORGANICS DATA REPORT 04/23/91

PROJECT NO. 91-266 SAMPLE NO. 54435 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1030 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA59

UG/KG	ANALYTICAL RESULTS
500U	PHENOL
500U	BIS(2-CHLOROETHYL) ETHER
500U	2-CHLOROPHENOL
500U	1,3-DICHLOROBENZENE
500U	1,4-DICHLOROBENZENE
500U	1,2-DICHLOROBENZENE
500U	2-METHYLPHENOL
500U	2,2'-CHLOROISOPROPYLETHER
500U	(3-AND/OR 4-)METHYLPHENOL
500U	N-NITROSODI-N-PROPYLAMINE
500U	HEXACHLOROETHANE
500U	NITROBENZENE
500U	ISOPHORONE
500U	2-NITROPHENOL
500U	2,4-DIMETHYLPHENOL
500U	BIS(2-CHLOROETHOXY) METHANE
500U	2,4-DICHLOROPHENOL
500U	1,2,4-TRICHLOROBENZENE
500U	NAPHTHALENE
500U	4-CHLOROANILINE
500U	HEXACHLOROBUTADIENE
500U	4-CHLORO-3-METHYLPHENOL
500U	2-METHYLNAPHTHALENE
500U	HEXACHLOROCYCLOPENTADIENE (HCCP)
500U	2,4,6-TRICHLOROPHENOL
2600U	2,4,5-TRICHLOROPHENOL
500U	2-CHLORONAPHTHALENE
2600U	2-NITROANILINE
[redacted]	DIMETHYL PHTHALATE
500U	ACENAPHTHYLENE
500U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2600U	3-NITROANILINE
500U	ACENAPHTHENE
2600U	2,4-DINITROPHENOL
2600U	4-NITROPHENOL
500U	DIBENZOFURAN
500U	2,4-DINITROTOLUENE
500U	DIETHYL PHTHALATE
500U	4-CHLOROPHENYL PHENYL ETHER
500U	FLUORENE
2600U	4-NITROANILINE
2600U	2-METHYL-4,6-DINITROPHENOL
500U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
500U	4-BROMOPHENYL PHENYL ETHER
500U	HEXACHLOROBENZENE (HCB)
2600U	PENTACHLOROPHENOL
600U	PHENANTHRENE
500U	ANTHRACENE
500U	CARBAZOLE
500U	DI-N-BUTYLPHTHALATE
500U	FLUORANTHENE
500U	PYRENE
500U	BENZYL BUTYL PHTHALATE
500U	3,3'-DICHLOROBENZIDINE
600U	BENZO(A)ANTHRACENE
500U	CHRYSENE
500U	BIS(2-ETHYLHEXYL) PHTHALATE
500U	DI-N-OCTYLPHTHALATE
500U	BENZO(B AND/OR K)FLUORANTHENE
500U	BENZO-A-PYRENE
500U	INDENO (1,2,3-CD) PYRENE
500U	DIBENZO(A,H)ANTHRACENE
500U	BENZO(GHI)PERYLENE
34	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268	SAMPLE NO. 54435	SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON ST: TN
STATION ID: SD-01			COLLECTION START: 01/29/91 1030 STOP: 00/00/00
CASE NO.: 15773	SAS NO.:		D. NO.: AA59 MD NO: AA59

ANALYTICAL RESULTS UG/KG

6000J 3 UNIDENTIFIED COMPOUNDS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF
STATION ID: SD-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1030 STOP: 00/00/00
D. NUMBER: AA59

UG/KG	ANALYTICAL RESULTS
2.5U	ALPHA-BHC
2.5U	BETA-BHC
2.5U	DELTA-BHC
[redacted]	[redacted]
2.5U	HEPTACHLOR
[redacted]	[redacted]
2.5U	HEPTACHLOR EPOXIDE
2.5U	ENDOSULFAN I (ALPHA)
4.9U	DIELDRIN
[redacted]	[redacted]
4.9U	ENDRIN
4.9U	ENDOSULFAN II (BETA)
[redacted]	[redacted]
4.9U	ENDOSULFAN SULFATE
4.9U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
25U	METHOXYCHLOR
4.9U	ENDRIN KETONE
4.9U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
[redacted]	[redacted] /2
[redacted]	[redacted] /2
250U	TOXAPHENE
49U	PCB-1016 (AROCLOR 1016)
49U	PCB-1221 (AROCLOR 1221)
99U	PCB-1232 (AROCLOR 1232)
49U	PCB-1242 (AROCLOR 1242)
49U	PCB-1248 (AROCLOR 1248)
49U	PCB-1254 (AROCLOR 1254)
49U	PCB-1260 (AROCLOR 1260)
34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT 04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF
STATION ID: SD-02

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00

D. NO.: AA64

UG/KG	ANALYTICAL RESULTS
15U	CHLOROMETHANE
15U	BROMOMETHANE
15U	VINYL CHLORIDE
15U	CHLOROETHANE
40U	METHYLENE CHLORIDE
15U	ACETONE
15U	CARBON DISULFIDE
15U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
15U	1,1-DICHLOROETHANE
15U	1,2-DICHLOROETHENE (TOTAL)
15U	CHLOROFORM
15U	1,2-DICHLOROETHANE
15U	METHYL ETHYL KETONE
15U	1,1,1-TRICHLOROETHANE
15U	CARBON TETRACHLORIDE
15U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
15U	1,2-DICHLOROPROPANE
15U	CIS-1,3-DICHLOROPROPENE
15U	TRICHLOROETHENE(TRICHLOROETHYLENE)
15U	DIBROMOCHLOROMETHANE
15U	1,1,2-TRICHLOROETHANE
15U	BENZENE
15U	TRANS-1,3-DICHLOROPROPENE
15U	BROMOFORM
15U	METHYL ISOBUTYL KETONE
15U	METHYL BUTYL KETONE
15U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
15U	1,1,2,2-TETRACHLOROETHANE
15U	TOLUENE
15U	CHLOROBENZENE
15U	ETHYL BENZENE
15U	STYRENE
15U	TOTAL XYLENES
34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. S4440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA64

UG/KG	ANALYTICAL RESULTS
490U	PHENOL
490U	BIS(2-CHLOROETHYL) ETHER
490U	2-CHLOROPHENOL
490U	1,3-DICHLOROBENZENE
490U	1,4-DICHLOROBENZENE
490U	1,2-DICHLOROBENZENE
490U	2-METHYLPHENOL
490U	2,2'-CHLOROISOPROPYLETHER
490U	(3-AND/OR 4-)METHYLPHENOL
490U	N-NITROSODI-N-PROPYLAMINE
490U	HEXACHLOROETHANE
490U	NITROBENZENE
490U	ISOPHORONE
490U	2-NITROPHENOL
490U	2,4-DIMETHYLPHENOL
490U	BIS(2-CHLOROETHOXY) METHANE
490U	2,4-DICHLOROPHENOL
490U	1,2,4-TRICHLOROBENZENE
490U	NAPHTHALENE
490U	4-CHLOROANILINE
490U	HEXACHLOROBUTADIENE
490U	4-CHLORO-3-METHYLPHENOL
490U	2-METHYLNAPHTHALENE
490U	HEXACHLOROCYCLOPENTADIENE (HCCP)
490U	2,4,6-TRICHLOROPHENOL
2500U	2,4,5-TRICHLOROPHENOL
490U	2-CHLORONAPHTHALENE
2500U	2-NITROANILINE
490U	DIMETHYL PHTHALATE
490U	ACENAPHTHYLENE
490U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2500U	3-NITROANILINE
490U	ACENAPHTHENE
2500U	2,4-DINITROPHENOL
2500U	4-NITROPHENOL
490U	DIBENZOFURAN
490U	2,4-DINITROTOLUENE
490U	DIETHYL PHTHALATE
490U	4-CHLOROPHENYL PHENYL ETHER
490U	FLUORENE
2500U	4-NITROANILINE
2500U	2-METHYL-4,6-DINITROPHENOL
490U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
490U	4-BROMOPHENYL PHENYL ETHER
490U	HEXACHLOROBENZENE (HCB)
2500U	PENTACHLOROPHENOL
490U	PHENANTHRENE
490U	ANTHRACENE
490U	CARBAZOLE
490U	DI-N-BUTYLPHTHALATE
69J	FLUORANTHENE
69J	PYRENE
490U	BENZYL BUTYL PHTHALATE
490U	3,3'-DICHLOROBENZIDINE
490U	BENZO(A)ANTHRACENE
490U	CHRYSENE
490U	BIS(2-ETHYLHEXYL) PHTHALATE
490U	DI-N-OCTYLPHTHALATE
490U	BENZO(B AND/OR K)FLUORANTHENE
490U	BENZO-A-PYRENE
490U	INDENO (1,2,3-CD) PYRENE
490U	DIBENZO(A,H)ANTHRACENE
490U	BENZO(GHI)PERYLENE
34	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF	CITY: DICKSON ST: TN
STATION ID: SD-02	COLLECTION START: 01/29/91 1220 STOP: 00/00/00
CASE.NO.: 15773 SAS NO.:	D. NO.: AA64 MD NO: AA64

ANALYTICAL RESULTS UG/KG

60003 4 UNIDENTIFIED COMPOUNDS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1220 STOP: 00/00/00
D. NUMBER: AA64

UG/KG	ANALYTICAL RESULTS
2.5U	ALPHA-BHC
2.5U	BETA-BHC
2.5U	DELTA-BHC
[illegible]	[illegible]
2.5U	HEPTACHLOR
2.5U	ALDRIN
2.5U	HEPTACHLOR EPOXIDE
2.5U	ENDOSULFAN I (ALPHA)
4.9U	DIELDRIN
4.9U	4,4'-DDE (P,P'-DDE)
4.9U	ENDRIN
4.9U	ENDOSULFAN II (BETA)
4.9U	4,4'-DDD (P,P'-DDD)
4.9U	ENDOSULFAN SULFATE
4.9U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
25U	METHOXYCHLOR
4.9U	ENDRIN KETONE
4.9U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
[illegible]	GAMMA-CHLORDANE /2
[illegible]	ALPHA-CHLORDANE /2
250U	TOXAPHENE
49U	PCB-1016 (AROCLOR 1016)
49U	PCB-1221 (AROCLOR 1221)
100U	PCB-1232 (AROCLOR 1232)
49U	PCB-1242 (AROCLOR 1242)
49U	PCB-1248 (AROCLOR 1248)
49U	PCB-1254 (AROCLOR 1254)
49U	PCB-1260 (AROCLOR 1260)
34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-03

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1340 STOP: 00/00/00
D. NO.: AA67

UG/KG	ANALYTICAL RESULTS
440U	PHENOL
440U	BIS(2-CHLOROETHYL) ETHER
440U	2-CHLOROPHENOL
440U	1,3-DICHLOROBENZENE
440U	1,4-DICHLOROBENZENE
440U	1,2-DICHLOROBENZENE
440U	2-METHYLPHENOL
440U	2,2'-CHLOROISOPROPYLETHER
440U	(3-AND/OR 4-)METHYLPHENOL
440U	N-NITROSODI-N-PROPYLAMINE
440U	HEXACHLOROETHANE
440U	NITROBENZENE
440U	ISOPHORONE
440U	2-NITROPHENOL
440U	2,4-DIMETHYLPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE
440U	2,4-DICHLOROPHENOL
440U	1,2,4-TRICHLOROBENZENE
440U	NAPHTHALENE
440U	4-CHLOROANILINE
440U	HEXACHLOROBUTADIENE
440U	4-CHLORO-3-METHYLPHENOL
440U	2-METHYLNAPHTHALENE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)
440U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
440U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
440U	DIMETHYL PHTHALATE
440U	ACENAPHTHYLENE
440U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
440U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
440U	DIBENZOFURAN
440U	2,4-DINITROTOLUENE
440U	DIETHYL PHTHALATE
440U	4-CHLOROPHENYL PHENYL ETHER
440U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	4-BROMOPHENYL PHENYL ETHER
440U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
440U	PHENANTHRENE
440U	ANTHRACENE
440U	CARBAZOLE
440U	DI-N-BUTYLPHTHALATE
440U	FLUORANTHENE
440U	PYRENE
440U	BENZYL BUTYL PHTHALATE
440U	3,3'-DICHLOROBENZIDINE
440U	BENZO(A)ANTHRACENE
440U	CHRYSENE
440U	BIS(2-ETHYLHEXYL) PHTHALATE
440U	DI-N-OCTYLPHTHALATE
440U	BENZO(B AND/OR K)FLUORANTHENE
440U	BENZO-A-PYRENE
440U	INDENO (1,2,3-CD) PYRENE
440U	DIBENZO(A,H)ANTHRACENE
440U	BENZO(GHI)PERYLENE
27	PERCENT MOISTURE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-03

CASE NO.: 15773 SAS NO :

PROG ELEM: WSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1340 STOP: 00/00/00

D. NO.: AA67

UG/KG	ANALYTICAL RESULTS
14U	CHLOROMETHANE
14U	BROMOMETHANE
14U	VINYL CHLORIDE
14U	CHLOROETHANE
40U	METHYLENE CHLORIDE
14U	ACETONE
14U	CARBON DISULFIDE
14U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
14U	1,1-DICHLOROETHANE
14U	1,2-DICHLOROETHENE (TOTAL)
14U	CHLOROFORM
14U	1,2-DICHLOROETHANE
14U	METHYL ETHYL KETONE
14U	1,1,1-TRICHLOROETHANE
14U	CARBON TETRACHLORIDE
14U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
14U	1,2-DICHLOROPROPANE
14U	CIS-1,3-DICHLOROPROPENE
14U	TRICHLOROETHENE(TRICHLOROETHYLENE)
14U	DIBROMOCHLOROMETHANE
14U	1,1,2-TRICHLOROETHANE
14U	BENZENE
14U	TRANS-1,3-DICHLOROPROPENE
14U	BROMOFORM
14U	METHYL ISOBUTYL KETONE
14U	METHYL BUTYL KETONE
14U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
14U	1,1,2,2-TETRACHLOROETHANE
14U	TOLUENE
14U	CHLOROBENZENE
14U	ETHYL BENZENE
14U	STYRENE
14U	TOTAL XYLENES
27	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA67 MD NO: AA67

ANALYTICAL RESULTS UG/KG

4000 1 UNIDENTIFIED COMPOUND

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1340 STOP: 00/00/00
D. NUMBER: AA67

UG/KG	ANALYTICAL RESULTS
2.3U	ALPHA-BHC
2.3U	BETA-BHC
2.3U	DELTA-BHC
2.3U	GAMMA-BHC (LINDANE)
2.3U	HEPTACHLOR
2.3U	ALDRIN
2.3U	HEPTACHLOR EPOXIDE
2.3U	ENDOSULFAN I (ALPHA)
4.4U	DIELDRIN
4.4U	4,4'-DDE (P,P'-DDE)
4.4U	ENDRIN
4.4U	ENDOSULFAN II (BETA)
4.4U	4,4'-DDD (P,P'-DDD)
4.4U	ENDOSULFAN SULFATE
4.4U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
23U	METHOXYCHLOR
4.4U	ENDRIN KETONE
4.4U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.3U	GAMMA-CHLORDANE /2
2.3U	ALPHA-CHLORDANE /2
230U	TOXAPHENE
44U	PCB-1016 (AROCLOR 1016)
44U	PCB-1221 (AROCLOR 1221)
90U	PCB-1232 (AROCLOR 1232)
44U	PCB-1242 (AROCLOR 1242)
44U	PCB-1248 (AROCLOR 1248)
44U	PCB-1254 (AROCLOR 1254)
44U	PCB-1260 (AROCLOR 1260)
27	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-04

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1145 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA63

UG/KG	ANALYTICAL RESULTS
14U	CHLOROMETHANE
14U	BROMOMETHANE
14U	VINYL CHLORIDE
14U	CHLOROETHANE
30U	METHYLENE CHLORIDE
14U	ACETONE
14U	CARBON DISULFIDE
14U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
14U	1,1-DICHLOROETHANE
14U	1,2-DICHLOROETHENE (TOTAL)
14U	CHLOROFORM
14U	1,2-DICHLOROETHANE
14U	METHYL ETHYL KETONE
14U	1,1,1-TRICHLOROETHANE
14U	CARBON TETRACHLORIDE
14U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
14U	1,2-DICHLOROPROPANE
14U	CIS-1,3-DICHLOROPROPENE
14U	TRICHLOROETHENE(TRICHLOROETHYLENE)
14U	DIBROMOCHLOROMETHANE
14U	1,1,2-TRICHLOROETHANE
14U	BENZENE
14U	TRANS-1,3-DICHLOROPROPENE
14U	BROMOFORM
14U	METHYL ISOBUTYL KETONE
14U	METHYL BUTYL KETONE
14U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
14U	1,1,2,2-TETRACHLOROETHANE
14U	TOLUENE
14U	CHLOROBENZENE
14U	ETHYL BENZENE
14U	STYRENE
14U	TOTAL XYLENES
30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-04

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1145 STOP: 00/00/00

D. NO.: AA63

UG/KG	ANALYTICAL RESULTS
460U	PHENOL
460U	BIS(2-CHLOROETHYL) ETHER
460U	2-CHLOROPHENOL
460U	1,3-DICHLOROBENZENE
460U	1,4-DICHLOROBENZENE
460U	1,2-DICHLOROBENZENE
460U	2-METHYLPHENOL
460U	2,2'-CHLOROISOPROPYLETHER
460U	(3-AND/OR 4-)METHYLPHENOL
460U	N-NITROSODI-N-PROPYLAMINE
460U	HEXACHLOROETHANE
460U	NITROBENZENE
460U	ISOPHORONE
460U	2-NITROPHENOL
460U	2,4-DIMETHYLPHENOL
460U	BIS(2-CHLOROETHOXY) METHANE
460U	2,4-DICHLOROPHENOL
460U	1,2,4-TRICHLOROBENZENE
460U	NAPHTHALENE
460U	4-CHLOROANILINE
460U	HEXACHLOROBUTADIENE
460U	4-CHLORO-3-METHYLPHENOL
460U	2-METHYLNAPHTHALENE
460U	HEXACHLOROCYCLOPENTADIENE (HCCP)
460U	2,4,6-TRICHLOROPHENOL
2400U	2,4,5-TRICHLOROPHENOL
460U	2-CHLORONAPHTHALENE
2400U	2-NITROANILINE
460U	DIMETHYL PHTHALATE
460U	ACENAPHTHYLENE
460U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2400U	3-NITROANILINE
460U	ACENAPHTHENE
2400U	2,4-DINITROPHENOL
2400U	4-NITROPHENOL
460U	DIBENZOFURAN
460U	2,4-DINITROTOLUENE
460U	DIETHYL PHTHALATE
460U	4-CHLOROPHENYL PHENYL ETHER
460U	FLUORENE
2400U	4-NITROANILINE
2400U	2-METHYL-4,6-DINITROPHENOL
460U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
460U	4-BROMOPHENYL PHENYL ETHER
460U	HEXACHLOROBENZENE (HCB)
2400U	PENTACHLOROPHENOL
460U	PHENANTHRENE
460U	ANTHRACENE
460U	CARBAZOLE
460U	DI-N-BUTYLPHTHALATE
460U	FLUORANTHENE
460U	PYRENE
460U	BENZYL BUTYL PHTHALATE
460U	3,3'-DICHLOROBENZIDINE
460U	BENZO(A)ANTHRACENE
460U	CHRYSENE
460U	BIS(2-ETHYLHEXYL) PHTHALATE
460U	DI-N-OCTYLPHTHALATE
460U	BENZO(B AND/OR K)FLUORANTHENE
460U	BENZO-A-PYRENE
460U	INDENO (1,2,3-CD) PYRENE
460U	DIBENZO(A,H)ANTHRACENE
460U	BENZO(GHI)PERYLENE
30	PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268	SAMPLE NO. 54439	SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON ST: TN
STATION ID: SD-04			COLLECTION START: 01/29/91 1145 STOP: 00/00/00
CASE NO.: 15773	SAS NO.:		D. NO.: AA63 MD NO: AA63

ANALYTICAL RESULTS UG/KG

00000J	1 UNIDENTIFIED COMPOUND

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
•R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. S4439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF
STATION ID: SD-04
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1145 STOP: 00/00/00
D. NUMBER: AA63

UG/KG	ANALYTICAL RESULTS
2.4U	ALPHA-BHC
2.4U	BETA-BHC
2.4U	DELTA-BHC
2.4U	GAMMA-BHC (LINDANE)
2.4U	HEPTACHLOR
2.4U	ALDRIN
2.4U	HEPTACHLOR EPOXIDE
2.4U	ENDOSULFAN I (ALPHA)
4.7U	DIELDRIN
4.7U	4,4'-DDE (P,P'-DDE)
4.7U	ENDRIN
4.7U	ENDOSULFAN II (BETA)
4.7U	4,4'-DDD (P,P'-DDD)
4.7U	ENDOSULFAN SULFATE
4.7U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
24U	METHOXYCHLOR
4.7U	ENDRIN KETONE
4.7U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.4U	GAMMA-CHLORDANE /2
2.4U	ALPHA-CHLORDANE /2
240U	TOXAPHENE
47U	PCB-1016 (AROCLOR 1016)
47U	PCB-1221 (AROCLOR 1221)
95U	PCB-1232 (AROCLOR 1232)
47U	PCB-1242 (AROCLOR 1242)
47U	PCB-1248 (AROCLOR 1248)
47U	PCB-1254 (AROCLOR 1254)
47U	PCB-1260 (AROCLOR 1260)
30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-05

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1130 STOP: 00/00/00

D. NO.: AA61

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLOROETHANE
30U	METHYLENE CHLORIDE
13U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
13U	CHLOROFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-05

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1130 STOP: 00/00/00

D. NO.: AA61

UG/KG	ANALYTICAL RESULTS
430U	PHENOL
430U	BIS(2-CHLOROETHYL) ETHER
430U	2-CHLOROPHENOL
430U	1,3-DICHLOROBENZENE
430U	1,4-DICHLOROBENZENE
430U	1,2-DICHLOROBENZENE
430U	2-METHYLPHENOL
430U	2,2'-CHLOROISOPROPYLETHER
430U	(3- AND/OR 4- METHYLPHENOL
430U	N-NITROSODI-N-PROPYLAMINE
430U	HEXACHLOROETHANE
430U	NITROBENZENE
430U	ISOPHORONE
430U	2-NITROPHENOL
430U	2,4-DIMETHYLPHENOL
430U	BIS(2-CHLOROETHOXY) METHANE
430U	2,4-DICHLOROPHENOL
430U	1,2,4-TRICHLOROBENZENE
430U	NAPHTHALENE
430U	4-CHLOROANILINE
430U	HEXACHLOROBUTADIENE
430U	4-CHLORO-3-METHYLPHENOL
430U	2-METHYLNAPHTHALENE
430U	HEXACHLOROCYCLOPENTADIENE (HCCP)
430U	2,4,6-TRICHLOROPHENOL
2200U	2,4,5-TRICHLOROPHENOL
430U	2-CHLORONAPHTHALENE
2200U	2-NITROANILINE
430U	DIMETHYL PHTHALATE
430U	ACENAPHTHYLENE
430U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200U	3-NITROANILINE
430U	ACENAPHTHENE
2200U	2,4-DINITROPHENOL
2200U	4-NITROPHENOL
430U	DIBENZOFURAN
430U	2,4-DINITROTOLUENE
430U	DIETHYL PHTHALATE
430U	4-CHLOROPHENYL PHENYL ETHER
430U	FLUORENE
2200U	4-NITROANILINE
2200U	2-METHYL-4,6-DINITROPHENOL
430U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
430U	4-BROMOPHENYL PHENYL ETHER
430U	HEXACHLOROBENZENE (HCB)
2200U	PENTACHLOROPHENOL
430U	PHENANTHRENE
430U	ANTHRACENE
430U	CARBAZOLE
430U	DI-N-BUTYLPHTHALATE
430U	FLUORANTHENE
430U	PYRENE
430U	BENZYL BUTYL PHTHALATE
430U	3,3'-DICHLOROBENZIDINE
430U	BENZO(A)ANTHRACENE
430U	CHRYSENE
430U	BIS(2-ETHYLHEXYL) PHTHALATE
430U	DI-N-OCTYLPHTHALATE
430U	BENZO(B AND/OR K)FLUORANTHENE
430U	BENZO-A-PYRENE
430U	INDENO (1,2,3-CD) PYRENE
430U	DIBENZO(A,H)ANTHRACENE
430U	BENZO(GHI)PERYLENE
24	PERCENT MOISTURE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
•R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA61 WO NO: AA61

ANALYTICAL RESULTS UG/KG

4000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. TF
STATION ID: SD-05
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1130 STOP: 00/00/00
D. NUMBER: AA61

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
2.2U	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
2.2U	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.3U	DIELDRIN
4.3U	4,4'-DDE (P,P'-DDE)
4.3U	ENDRIN
4.3U	ENDOSULFAN II (BETA)
4.3U	4,4'-DDD (P,P'-DDD)
4.3U	ENDOSULFAN SULFATE
5.0U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.3U	ENDRIN KETONE
4.3U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.2U	GAMMA-CHLORDANE /2
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
43U	PCB-1016 (AROCLOR 1016)
43U	PCB-1221 (AROCLOR 1221)
88U	PCB-1232 (AROCLOR 1232)
43U	PCB-1242 (AROCLOR 1242)
43U	PCB-1248 (AROCLOR 1248)
43U	PCB-1254 (AROCLOR 1254)
43U	PCB-1260 (AROCLOR 1260)
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF
STATION ID: SD-06

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00

D. NO.: AA69

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLOROETHANE
40U	METHYLENE CHLORIDE
40U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
13U	CHLOROFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
25	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-06

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00

D. NO.: AA89

UG/KG	ANALYTICAL RESULTS
440U	PHENOL
440U	BIS(2-CHLOROETHYL) ETHER
440U	2-CHLOROPHENOL
440U	1,3-DICHLOROBENZENE
440U	1,4-DICHLOROBENZENE
440U	1,2-DICHLOROBENZENE
440U	2-METHYLPHENOL
440U	2,2'-CHLOROISOPROPYLETHER
440U	(3-AND/OR 4-)METHYLPHENOL
440U	N-NITROSODI-N-PROPYLAMINE
440U	HEXACHLOROETHANE
440U	NITROBENZENE
440U	ISOPHORONE
440U	2-NITROPHENOL
440U	2,4-DIMETHYLPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE
440U	2,4-DICHLOROPHENOL
440U	1,2,4-TRICHLOROBENZENE
440U	NAPHTHALENE
440U	4-CHLOROANILINE
440U	HEXACHLOROBUTADIENE
440U	4-CHLORO-3-METHYLPHENOL
440U	2-METHYLNAPHTHALENE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)
440U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
440U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
440U	DIMETHYL PHTHALATE
440U	ACENAPHTHYLENE
440U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
440U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
440U	DIBENZOFURAN
440U	2,4-DINITROTOLUENE
440U	DIETHYL PHTHALATE
440U	4-CHLOROPHENYL PHENYL ETHER
440U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	4-BROMOPHENYL PHENYL ETHER
440U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
910J	PHENANTHRENE
51J	ANTHRACENE
440U	CARBAZOLE
440U	DI-N-BUTYLPHTHALATE
410J	FLUORANTHENE
270J	PYRENE
560	BENZYL BUTYL PHTHALATE
440U	3,3'-DICHLOROBENZIDINE
190J	BENZO(A)ANTHRACENE
170J	CHRYSENE
440U	BIS(2-ETHYLHEXYL) PHTHALATE
440U	DI-N-OCTYLPHTHALATE
440U	BENZO(B AND/OR K)FLUORANTHENE
440U	BENZO-A-PYRENE
440U	INDENO (1,2,3-CD) PYRENE
440U	DIBENZO(A,H)ANTHRACENE
440U	BENZO(GHI)PERYLENE
25	PERCENT MOISTURE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
•R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-288	SAMPLE NO. 54445	SAMPLE TYPE: SOIL	PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON ST: TN
STATION ID: SD-06			COLLECTION START: 01/29/91 1445 STOP: 00/00/00
CASE.NO.: 15773	SAS NO.:		D. NO.: AA69 MD NO: AA69

ANALYTICAL RESULTS UG/KG

70004	8	UNIDENTIFIED COMPOUNDS
	N	PETROLEUM PRODUCT
200JN		TRIBROMOPHENOL (NOT 2,4,6-)

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-06
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00
D. NUMBER: AA69

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
2.2U	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
[illegible]	[illegible]
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.3U	DIELDRIN
4.3U	4,4'-DDE (P,P'-DDE)
4.3U	ENDRIN
4.3U	ENDOSULFAN II (BETA)
4.3U	4,4'-DDD (P,P' DDD)
12U	ENDOSULFAN SULFATE
4.3U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.3U	ENDRIN KETONE
4.3U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
[illegible]	[illegible]-CHLORDANE /2
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
43U	PCB-1016 (AROCLOR 1016)
43U	PCB-1221 (AROCLOR 1221)
87U	PCB-1232 (AROCLOR 1232)
43U	PCB-1242 (AROCLOR 1242)
43U	PCB-1248 (AROCLOR 1248)
77U	PCB-1254 (AROCLOR 1254)
74U	PCB-1260 (AROCLOR 1260)
25	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED. SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA54

UG/KG	ANALYTICAL RESULTS
14U	CHLOROMETHANE
14U	BROMOMETHANE
14U	VINYL CHLORIDE
14U	CHLOROETHANE
20U	METHYLENE CHLORIDE
14U	ACETONE
14U	CARBON DISULFIDE
14U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
14U	1,1-DICHLOROETHANE
14U	1,2-DICHLOROETHENE (TOTAL)
14U	CHLOROFORM
14U	1,2-DICHLOROETHANE
14U	METHYL ETHYL KETONE
14U	1,1,1-TRICHLOROETHANE
14U	CARBON TETRACHLORIDE
14U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
14U	1,2-DICHLOROPROPANE
14U	CIS-1,3-DICHLOROPROPENE
14U	TRICHLOROETHENE(TRICHLOROETHYLENE)
14U	DIBROMOCHLOROMETHANE
14U	1,1,2-TRICHLOROETHANE
14U	BENZENE
14U	TRANS-1,3-DICHLOROPROPENE
14U	BROMOFORM
14U	METHYL ISOBUTYL KETONE
14U	METHYL BUTYL KETONE
14U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
14U	1,1,2,2-TETRACHLOROETHANE
14U	TOLUENE
14U	CHLOROBENZENE
14U	ETHYL BENZENE
14U	STYRENE
14U	TOTAL XYLENES
28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-01

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA54

UG/KG	ANALYTICAL RESULTS
450U	PHENOL
450U	BIS(2-CHLOROETHYL) ETHER
450U	2-CHLOROPHENOL
450U	1.3-DICHLOROBENZENE
450U	1.4-DICHLOROBENZENE
450U	1.2-DICHLOROBENZENE
450U	2-METHYLPHENOL
450U	2,2'-CHLOROISOPROPYLETHER
450U	(3-AND/OR 4-)METHYLPHENOL
450U	N-NITROSODI-N-PROPYLAMINE
450U	HEXACHLOROETHANE
450U	NITROBENZENE
450U	ISOPHORONE
450U	2-NITROPHENOL
450U	2,4-DIMETHYLPHENOL
450U	BIS(2-CHLOROETHOXY) METHANE
450U	2,4-DICHLOROPHENOL
450U	1,2,4-TRICHLOROBENZENE
450U	NAPHTHALENE
450U	4-CHLOROANILINE
450U	HEXACHLOROBUTADIENE
450U	4-CHLORO-3-METHYLPHENOL
450U	2-METHYLNAPHTHALENE
450U	HEXACHLOROCYCLOPENTADIENE (HCCP)
450U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
450U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
450U	DIMETHYL PHTHALATE
450U	ACENAPHTHYLENE
450U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
450U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
450U	DIBENZOFURAN
450U	2,4-DINITROTOLUENE
450U	DIETHYL PHTHALATE
450U	4-CHLOROPHENYL PHENYL ETHER
450U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
450U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
450U	4-BROMOPHENYL PHENYL ETHER
450U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
450U	PHENANTHRENE
450U	ANTHRACENE
450U	CARBAZOLE
@1J	DI-N-BUTYLPHTHALATE
450U	FLUORANTHENE
450U	PYRENE
450U	BENZYL BUTYL PHTHALATE
450U	3,3'-DICHLOROBENZIDINE
450U	BENZO(A)ANTHRACENE
450U	CHRYSENE
450U	BIS(2-ETHYLHEXYL) PHTHALATE
450U	DI-N-OCTYLPHTHALATE
450U	BENZO(B AND/OR K)FLUORANTHENE
450U	BENZO-A-PYRENE
450U	INDENO (1,2,3-CD) PYRENE
450U	DIBENZO(A,H)ANTHRACENE
450U	BENZO(GH I)PERYLENE
28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-01
CASE NO.: 15773 SAS NO.:

PROG ELEM: WSP COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00
D. NO.: AA54 MD NO: AA54

ANALYTICAL RESULTS UG/KG

5000W	3 UNIDENTIFIED COMPOUNDS
200JW	HEXADECANOIC ACID

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-01
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00
D. NUMBER: AA54

UG/KG	ANALYTICAL RESULTS		UG/KG	ANALYTICAL RESULTS
2.4U	ALPHA-BHC		24U	METHOXYCHLOR
2.4U	BETA-BHC		4.6U	ENDRIN KETONE
2.4U	DELTA-BHC		4.6U	ENDRIN ALDEHYDE
2.4U	GAMMA-BHC (LINDANE)	--		CHLORDANE (TECH. MIXTURE) /1
2.4U	HEPTACHLOR		5.4	GAMMA-CHLORDANE /2
2.4U	ALDRIN		8.0J	ALPHA-CHLORDANE /2
2.4U	HEPTACHLOR EPOXIDE		240U	TOXAPHENE
2.4U	ENDOSULFAN I (ALPHA)		46U	PCB-1016 (AROCLOR 1016)
2.4U	DIELDRIN		46U	PCB-1221 (AROCLOR 1221)
[redacted]	[redacted]'-DDE (P,P'-DDE)		93U	PCB-1232 (AROCLOR 1232)
4.6U	ENDRIN		46U	PCB-1242 (AROCLOR 1242)
4.6U	ENDOSULFAN II (BETA)		46U	PCB-1248 (AROCLOR 1248)
[redacted]	[redacted]'-DDD (P,P'-DDD)		46U	PCB-1254 (AROCLOR 1254)
4.6U	ENDOSULFAN SULFATE		46U	PCB-1260 (AROCLOR 1260)
4.6U	4,4'-DDT (P,P'-DDT)		28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1640 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA55

UG/KG	ANALYTICAL RESULTS
14U	CHLOROMETHANE
14U	BROMOMETHANE
14U	VINYL CHLORIDE
14U	CHLOROETHANE
40U	METHYLENE CHLORIDE
200U	ACETONE
14U	CARBON DISULFIDE
14U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
14U	1,1-DICHLOROETHANE
14U	1,2-DICHLOROETHENE (TOTAL)
14U	CHLOROFORM
14U	1,2-DICHLOROETHANE
14U	METHYL ETHYL KETONE
14U	1,1,1-TRICHLOROETHANE
14U	CARBON TETRACHLORIDE
14U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
14U	1,2-DICHLOROPROPANE
14U	CIS-1,3-DICHLOROPROPENE
14U	TRICHLOROETHENE(TRICHLOROETHYLENE)
14U	DIBROMOCHLOROMETHANE
14U	1,1,2-TRICHLOROETHANE
14U	BENZENE
14U	TRANS-1,3-DICHLOROPROPENE
14U	BROMOFORM
14U	METHYL ISOBUTYL KETONE
14U	METHYL BUTYL KETONE
14U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
14U	1,1,2,2-TETRACHLOROETHANE
14U	TOLUENE
14U	CHLOROBENZENE
14U	ETHYL BENZENE
14U	STYRENE
14	TOTAL XYLENES
26	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-02

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1640 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA55

UG/KG	ANALYTICAL RESULTS
440U	PHENOL
440U	BIS(2-CHLOROETHYL) ETHER
440U	2-CHLOROPHENOL
440U	1,3-DICHLOROBENZENE
440U	1,4-DICHLOROBENZENE
440U	1,2-DICHLOROBENZENE
440U	2-METHYLPHENOL
440U	2,2'-CHLOROISOPROPYLETHER
440U	(3-AND/OR 4-)METHYLPHENOL
440U	N-NITROSODI-N-PROPYLAMINE
440U	HEXACHLOROETHANE
440U	NITROBENZENE
440U	ISOPHORONE
440U	2-NITROPHENOL
440U	2,4-DIMETHYLPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE
440U	2,4-DICHLOROPHENOL
440U	1,2,4-TRICHLOROBENZENE
440U	NAPHTHALENE
440U	4-CHLOROANILINE
440U	HEXACHLOROBUTADIENE
440U	4-CHLORO-3-METHYLPHENOL
440U	2-METHYLNAPHTHALENE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)
440U	2,4,6-TRICHLOROPHENOL
2300U	2,4,5-TRICHLOROPHENOL
440U	2-CHLORONAPHTHALENE
2300U	2-NITROANILINE
440U	DIMETHYL PHTHALATE
440U	ACENAPHTHYLENE
440U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2300U	3-NITROANILINE
440U	ACENAPHTHENE
2300U	2,4-DINITROPHENOL
2300U	4-NITROPHENOL
440U	DIBENZOFURAN
440U	2,4-DINITROTOLUENE
440U	DIETHYL PHTHALATE
440U	4-CHLOROPHENYL PHENYL ETHER
440U	FLUORENE
2300U	4-NITROANILINE
2300U	2-METHYL-4,6-DINITROPHENOL
440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	4-BROMOPHENYL PHENYL ETHER
440U	HEXACHLOROBENZENE (HCB)
2300U	PENTACHLOROPHENOL
440U	PHENANTHRENE
440U	ANTHRACENE
440U	CARBAZOLE
440U	DI-N-BUTYLPHTHALATE
440U	FLUORANTHENE
440U	PYRENE
440U	BENZYL BUTYL PHTHALATE
440U	3,3'-DICHLOROBENZIDINE
440U	BENZO(A)ANTHRACENE
440U	CHRYSENE
440U	BIS(2-ETHYLHEXYL) PHTHALATE
440U	DI-N-OCTYLPHTHALATE
440U	BENZO(B AND/OR K)FLUORANTHENE
440U	BENZO-A-PYRENE
440U	INDENO (1,2,3-CD) PYRENE
440U	DIBENZO(A,H)ANTHRACENE
440U	BENZO(GHI)PERYLENE
26	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA. 04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA55 MD NO: AA55

ANALYTICAL RESULTS UG/KG

8000 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1640 STOP: 00/00/00
D. NUMBER: AA55

UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC
2.2U	BETA-BHC
2.2U	DELTA-BHC
2.2U	GAMMA-BHC (LINDANE)
2.2U	HEPTACHLOR
2.2U	ALDRIN
2.2U	HEPTACHLOR EPOXIDE
2.2U	ENDOSULFAN I (ALPHA)
4.4U	DIELDRIN
4.4U	4,4'-DDE (P,P'-DDE)
4.4U	ENDRIN
4.4U	ENDOSULFAN II (BETA)
4.4U	4,4'-DDD (P,P'-DDD)
4.4U	ENDOSULFAN SULFATE
4.4U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
22U	METHOXYCHLOR
4.4U	ENDRIN KETONE
4.4U	ENDRIN ALDEHYDE
	CHLORDANE (TECH. MIXTURE) /1
2.2U	ALPHA-CHLORDANE /2
220U	TOXAPHENE
44U	PCB-1016 (AROCLOR 1016)
44U	PCB-1221 (AROCLOR 1221)
88U	PCB-1232 (AROCLOR 1232)
44U	PCB-1242 (AROCLOR 1242)
44U	PCB-1248 (AROCLOR 1248)
44U	PCB-1254 (AROCLOR 1254)
44U	PCB-1260 (AROCLOR 1260)
26	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-03

CASE NO.: 15773 SAS NO.:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00

D. NO.: AA56

UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE
13U	BROMOMETHANE
13U	VINYL CHLORIDE
13U	CHLOROETHANE
30U	METHYLENE CHLORIDE
13U	ACETONE
13U	CARBON DISULFIDE
13U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U	1,1-DICHLOROETHANE
13U	1,2-DICHLOROETHENE (TOTAL)
13U	CHLOROFORM
13U	1,2-DICHLOROETHANE
13U	METHYL ETHYL KETONE
13U	1,1,1-TRICHLOROETHANE
13U	CARBON TETRACHLORIDE
13U	BROMODICHLOROMETHANE

UG/KG	ANALYTICAL RESULTS
13U	1,2-DICHLOROPROPANE
13U	CIS-1,3-DICHLOROPROPENE
13U	TRICHLOROETHENE(TRICHLOROETHYLENE)
13U	DIBROMOCHLOROMETHANE
13U	1,1,2-TRICHLOROETHANE
13U	BENZENE
13U	TRANS-1,3-DICHLOROPROPENE
13U	BROMOFORM
13U	METHYL ISOBUTYL KETONE
13U	METHYL BUTYL KETONE
13U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U	1,1,2,2-TETRACHLOROETHANE
13U	TOLUENE
13U	CHLOROBENZENE
13U	ETHYL BENZENE
13U	STYRENE
13U	TOTAL XYLENES
22	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-03

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA56

UG/KG	ANALYTICAL RESULTS
420UJ	PHENOL
420UJ	BIS(2-CHLOROETHYL) ETHER
420UJ	2-CHLOROPHENOL
420UJ	1,3-DICHLOROBENZENE
420UJ	1,4-DICHLOROBENZENE
420UJ	1,2-DICHLOROBENZENE
420UJ	2-METHYLPHENOL
420UJ	2,2'-CHLOROISOPROPYLETHER
420UJ	(3-AND/OR 4-)METHYLPHENOL
420UJ	N-NITROSODI-N-PROPYLAMINE
420UJ	HEXACHLOROETHANE
420UJ	NITROBENZENE
420UJ	ISOPHORONE
420UJ	2-NITROPHENOL
420UJ	2,4-DIMETHYLPHENOL
420UJ	BIS(2-CHLOROETHOXY) METHANE
420UJ	2,4-DICHLOROPHENOL
420UJ	1,2,4-TRICHLOROBENZENE
420UJ	NAPHTHALENE
420UJ	4-CHLOROANILINE
420UJ	HEXACHLOROBUTADIENE
420UJ	4-CHLORO-3-METHYLPHENOL
420UJ	2-METHYLNAPHTHALENE
420UJ	HEXACHLORODCYCLOPENTADIENE (HCCP)
420UJ	2,4,6-TRICHLOROPHENOL
2200UJ	2,4,5-TRICHLOROPHENOL
420UJ	2-CHLORONAPHTHALENE
2200UJ	2-NITROANILINE
420UJ	DIMETHYL PHTHALATE
420UJ	ACENAPHTHYLENE
420UJ	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200UJ	3-NITROANILINE
420UJ	ACENAPHTHENE
2200UJ	2,4-DINITROPHENOL
2200UJ	4-NITROPHENOL
420UJ	DIBENZOFURAN
420UJ	2,4-DINITROTOLUENE
420UJ	DIETHYL PHTHALATE
420UJ	4-CHLOROPHENYL PHENYL ETHER
420UJ	FLUORENE
2200UJ	4-NITROANILINE
2200UJ	2-METHYL-4,6-DINITROPHENOL
420UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
420UJ	4-BROMOPHENYL PHENYL ETHER
420UJ	HEXACHLOROBENZENE (HCB)
2200UJ	PENTACHLOROPHENOL
420UJ	PHENANTHRENE
420UJ	ANTHRACENE
420UJ	CARBAZOLE
420UJ	DI-N-BUTYLPHTHALATE
420UJ	FLUORANTHENE
420UJ	PYRENE
420UJ	BENZYL BUTYL PHTHALATE
420UJ	3,3'-DICHLOROBENZIDINE
420UJ	BENZO(A)ANTHRACENE
420UJ	CHRYSENE
420UJ	BIS(2-ETHYLHEXYL) PHTHALATE
420UJ	DI-N-OCTYLPHTHALATE
420UJ	BENZO(B AND/OR K)FLUORANTHENE
420UJ	BENZO-A-PYRENE
420UJ	INDENO (1,2,3-CD) PYRENE
420UJ	DIBENZO(A,H)ANTHRACENE
420UJ	BENZO(GHI)PERYLENE
22	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54432 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: LS-03
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1620 STOP: 00/00/00
D. NUMBER: AAS6

UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
2.1U	GAMMA-BHC (LINDANE)
2.1U	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
4.1U	ENDRIN
4.1U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

UG/KG	ANALYTICAL RESULTS
21U	METHOXYCHLOR
4.1U	ENDRIN KETONE
4.1U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.1U	GAMMA-CHLORDANE /2
2.1U	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
84U	PCB-1232 (AROCLOR 1232)
41U	PCB-1242 (AROCLOR 1242)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
22	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

Site Inspection Report

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION
01 STATE: TND | 02 SITE NUMBER: 981467673

II. SITE NAME AND LOCATION

01 SITE NAME	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Dickson County Landfill	End Road

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG. DIST.
Dickson	TN		Dickson	43	7

09 COORDINATES: LATITUDE 36° 02' 50" | LONGITUDE 87° 24' 52"

10 TYPE OF OWNERSHIP (Check one): ☐ A. PRIVATE ☐ B. FEDERAL ____ ☐ C. STATE ☒ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
01 28 91 (MONTH DAY YEAR)	☒ ACTIVE ☐ INACTIVE	1968 (BEGINNING YEAR) present (ENDING YEAR) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR HALLIBURTON NUS (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ____ (Name of firm) ☐ G. OTHER ____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
David Ceppos	Project Manager	NUS	404 938-7710
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Gary Benfield	Co Project Manager	NUS	(404) 938-7710
Rusty Hazleton	Sampler	NUS	(404) 938-7710
Marie Hitchcock	Sample Management Officer	NUS	(404) 938-7710
Jancie Hatcher	FASP	NUS	404 938-7710
Jim Miller	Geophysics	NUS	404 938-7710

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Virgil Bellar	Landfill Operator	End Road	
Bill Griggs	Consultant	P.O. Box 2968 Murfreesboro, TN 37133	615-895-8221

17 ACCESS GAINED BY	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT		Overcast & cold (≈ 36°F)

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Virgil Bellar	Dickson County	

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
T. Gary Benfield	EPA	NUS Corp.	404) 938-7710	7/2/91

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IND	981467673

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)
A. SOLID E. SLURRY
B. POWDER, FINES F. LIQUID
C. SLUDGE G. GAS
✓ H. OTHER unknown

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)
TONS
CUBIC YARDS
NO. OF DRUMS unknown

03 WASTE CHARACTERISTICS (Check all that apply)
A. TOXIC E. SOLUBLE I. HIGHLY VOLATILE
B. CORROSIVE F. INFECTIOUS ✓ J. EXPLOSIVE
C. RADIOACTIVE G. FLAMMABLE K. REACTIVE
D. PERSISTENT H. IGNITABLE L. INCOMPATIBLE
M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	unknown		from ALUMINUM FOUNDRY
SOL	SOLVENTS	unknown	DRUMS	from SHREDDER AUTOMOTIVE & WINNER BOATS
PSD	PESTICIDES	unknown		
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		from PAINT WASTE

IV. HAZARDOUS SUBSTANCES (See Appendix for most commonly cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	TRICHLOROETHANE	[redacted]25323-89-1	DRUMS	unknown	
PSD	GAMMA-CHLORDANE	57-74-9	unknown	unknown	
PSD	ALPHA-CHLORDANE	57-74-9	unknown	unknown	
PSD	DDT	50-29-3	unknown	unknown	
SOL	Chloroform	67-66-3	unknown	unknown	
SOL	Carbon Disulfide	75-15-0	unknown		

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IND	981467673

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [ ] J. DAMAGE TO FLORA — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 [ ] K. DAMAGE TO FAUNA — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 [ ] L. CONTAMINATION OF FOOD CHAIN — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 [X] M. UNSTABLE CONTAINMENT OF WASTES — 02 [X] OBSERVED (DATE 1/30/91) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION
Landfill had several leachate areas which entered the surface water pathway.

01 [ ] N. DAMAGE TO OFFSITE PROPERTY — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 [ ] O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 [X] P. ILLEGAL/UNAUTHORIZED DUMPING — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [X] ALLEGED
04 NARRATIVE DESCRIPTION
Schrader Automotive and Winner Boats supposedly brought trailer loads of drummed waste degreasers, solvents, and paint waste.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
~~Levels of~~ Elevated levels of several pesticides were found within the landfill.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 30,615

IV. COMMENTS
Most dumping of questionable material was placed in the city dump prior to 1973.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
EPA, State file material

EPA FORM 2070-13 (7-81)

EPA **POTENTIAL HAZARDOUS WASTE SITE**
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TNO	981467673

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 30,615 — 04 NARRATIVE DESCRIPTION
The private well was contaminated from TCE and there are two municipal wells within 4,000 feet.

01 [X] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 29,213 — 04 NARRATIVE DESCRIPTION
There is a surface water intake on the West Piney River within the 15-mile surface water pathway.

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
N/A

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE: unknown) — [ ] POTENTIAL — [X] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
A landfill attendant supposedly attempted to open a drum ~~from~~ the Eastside company had dumped, but it exploded.

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
N/A

01 [X] F. CONTAMINATION OF SOIL — 02 [X] OBSERVED (DATE: 1/30/91) — [X] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: ≈ 28.74 acres — 04 NARRATIVE DESCRIPTION
Soils within the landfill were contaminated with high levels of pesticides, metals, and unidentified organics.

01 [X] G. DRINKING WATER CONTAMINATION — 02 [X] OBSERVED (DATE: 1/29/91) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
Mr. Holt owns a home approximately 500 ft. east of the landfill and his private well was contaminated with TCE.

01 [ ] H. WORKER EXPOSURE/INJURY — 02 OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 5-6 — 04 NARRATIVE DESCRIPTION
Landfill is still active; however, the old dump is not used.

01 [X] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
Area is not fenced off and pedestrian traffic is very possible.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ND	9814671673

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Enter all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
A. NPDES				
B. UIC				
C. AIR				
D. RCRA				
E. RCRA INTERIM STATUS				
F. SPCC PLAN				
G. STATE (Specify)				
H. LOCAL (Specify)				
I. OTHER (Specify)				
J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
☐ A. SURFACE IMPOUNDMENT			☐ A. INCINERATION	☑ A. BUILDINGS ON SITE
☐ B. PILES			☐ B. UNDERGROUND INJECTION	
☐ C. DRUMS, ABOVE GROUND			☐ C. CHEMICAL/PHYSICAL	
☐ D. TANK, ABOVE GROUND			☐ D. BIOLOGICAL	
☐ E. TANK, BELOW GROUND			☐ E. WASTE OIL PROCESSING	06 AREA OF SITE
☐ F. LANDFILL			☐ F. SOLVENT RECOVERY	74 (ACRES)
☐ G. LANDFARM			☐ G. OTHER RECYCLING/RECOVERY	
☑ H. OPEN DUMP	unknown		☐ H. OTHER (Specify)	
☐ I. OTHER (Specify)				

07 COMMENTS

There is a landfill directly adjacent to the old city dump to the west that is presently being used.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☑ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Most waste was in drums there was no liner for the old city dump.

V. ACCESSIBILITY

01 WASTE READILY ACCESSIBLE ☑ YES ☐ NO

02 COMMENTS

There are some drums visible but most are thought to be buried.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State file material

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: TNO | 02 SITE NUMBER: 981467673

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)

	SURFACE	WELL
COMMUNITY	A ☑	B ☑
NON-COMMUNITY	C ☐	D ☑

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☑	B. ☐	C. ☐
D. ☑	E. ☐	F. ☐

03 DISTANCE TO SITE
4,000 ft. well
A. wli 15 (mi) stream
B. 500 ft. (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)
☐ A. ONLY SOURCE FOR DRINKING ☑ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: 30,615
03 DISTANCE TO NEAREST DRINKING WATER WELL: 500 ft.

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
~~[illegible]~~ 110 (m)		≈100 (m)	144,000 (gpd)	☑ YES ☐ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and surface water)
Two municipal wells are located 4,000 feet east of the landfill, are 167 - 183 ft. deep.

10 RECHARGE AREA		11 DISCHARGE AREA	
☑ YES ☐ NO	COMMENTS: primarily from precipitation on the uplands.	☐ YES ☐ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)
☑ A. RESERVOIR, RECREATION, DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
Baker Branch	☑	0.2 (mi)
West Piney River	☐	1 2 (mi)
Wacley Branch	☐	1 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 570 (NO. OF PERSONS)	B. 1904 (NO. OF PERSONS)	C. 5,192 (NO. OF PERSONS)

02 DISTANCE TO NEAREST POPULATION: 500 ft.

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE:

04 DISTANCE TO NEAREST OFF-SITE BUILDING: 500 ft.

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site)
The immediate vicinity of the landfill is rural with many farms; however, within the 4-mile radius there are many large, residential areas.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TND	981467673

VI. ENVIRONMENTAL INFORMATION

15 PERMEABILITY OF UNSATURATED ZONE (Check one)

A. 10^{-2} - 10^{-4} cm/sec ☑ B. 10^{-4} - 10^{-6} cm/sec ☐ C. 10^{-6} - 10^{-8} cm/sec ☐ D. GREATER THAN 10^{-2} cm/sec

16 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☑ B. RELATIVELY IMPERMEABLE (10^{-4} - 10^{-6} cm/sec) ☐ C. RELATIVELY PERMEABLE (10^{-2} - 10^{-4} cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

17 DEPTH TO BEDROCK	18 DEPTH OF CONTAMINATED SOIL ZONE	19 SOIL pH	
_____ (ft)	unknown (ft)	_____	

20 NET PRECIPITATION	21 ONE YEAR 24 HOUR RAINFALL	22 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
12 (in)	3 (in)	76 %	South	_____ %

23 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

24 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

25 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. — (mi)	B. — (mi)

26 DISTANCE TO CRITICAL HABITAT (of endangered species)

— (mi)

ENDANGERED SPECIES: _____

27 LAND USE IN VICINITY

DISTANCE TO COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL, STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. 1 (mi)	B. 0.5-1 (mi)	C. _____ (mi)	D. _____ (mi)

28 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The Dickson County landfill is located in a very rural area with the city of Dickson approximately 1.5 miles to the north east.

VII. SOURCES OF INFORMATION (Cite specific references, e.g. State files, sample analysis, reports)

NUS Field Logbook, SSI Phase II Report for Dickson County Landfill

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TND	981467673

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	3	Compuchem Labs for organic	
SURFACE WATER	6	analysis	
WASTE			
AIR		Southwest Labs of Oklahoma for	
RUNOFF		inorganic analysis	
SPILL			
SOIL	15		
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
pH	
Conductivity	
temperature	

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☑ GROUND ☑ AERIAL — 02 IN CUSTODY OF HALLIBURTON NUS ENVIRONMENTAL (Name of organization or individual)

03 MAPS ☐ YES ☐ NO — 04 LOCATION OF MAPS

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Both Geophysics and Field Analytical Support Project (F.A.S.P.) were used to identify potentially contaminated areas + areas where drums may be present for the safety of the team + to help identify CLP samples.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS field logbook

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TND	981467673

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Dickson County			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
Eno Road			

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Dickson	TN				

PARENT COMPANY (If applicable)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER
City of Dickson	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE
Dickson	TN	

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART II - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TND	981467673

II. CURRENT OPERATOR

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS	04 SIC CODE	12 STREET ADDRESS	13 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	14 CITY	15 STATE / 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER		

III. PREVIOUS OPERATOR(S)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS	04 SIC CODE	12 STREET ADDRESS	13 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	14 CITY	15 STATE / 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		
01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS	04 SIC CODE	12 STREET ADDRESS	13 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	14 CITY	15 STATE / 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		
01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
03 STREET ADDRESS	04 SIC CODE	12 STREET ADDRESS	13 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	14 CITY	15 STATE / 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		

IV. SOURCES OF INFORMATION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TND	981467673

II. ON-SITE GENERATOR

01 NAME	02 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D-B NUMBER	01 NAME	02 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D-B NUMBER	01 NAME	02 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D-B NUMBER	01 NAME	02 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D-B NUMBER	01 NAME	02 D-B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TND	981467673

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☒ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION Drums from Winner Boats containing Acetone, paint waste, + rainwater were removed from the Dump.	02 DATE unknown	03 AGENCY County
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ L. ENCAPSULATION 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ O. EMERGENCY DIKING SURFACE WATER DIVERSION 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ P. CUTOFF TRENCHES SUMP 04 DESCRIPTION N/A	02 DATE	03 AGENCY
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION N/A	02 DATE	03 AGENCY

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TND	980967673

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ A. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: None

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: No - area is open

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: N/A

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: None known.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State files, NUS fieldbook

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TNO	981467673

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ✓ YES NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

~~Have~~ The state had several notices of unsatisfactory cover, dead animals, and people going through trash.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State file material

EPA FORM 2070-13 (7-81)

APPENDIX

I. FEEDSTOCKS

CAS Number	Chemical Name
1. 7664-41-7	Ammonia
2. 7440-36-0	Antimony
3. 1309-64-4	Antimony Trioxide
4. 7440-38-2	Arsenic
5. 1327-53-3	Arsenic Trioxide
6. 21109-95-5	Barium Sulfide
7. 7726-95-6	Bromine
8. 106-99-0	Butadiene
9. 7440-43-9	Cadmium
10. 7782-50-5	Chlorine
11. 12737-27-8	Chromite
12. 7440-47-3	Chromium
13. 7440-48-4	Cobalt
14. 1317-38-0	Cupric Oxide
15. 7758-98-7	Cupric Sulfate
16. 1317-39-1	Cuprous Oxide
17. 74-85-1	Ethylene
18. 7647-01-0	Hydrochloric Acid
19. 7664-39-3	Hydrogen Fluoride
20. 1335-25-7	Lead Oxide
21. 7439-97-6	Mercury
22. 74-82-8	Methane
23. 91-20-3	Napthalene
24. 7440-02-0	Nickel
25. 7697-37-2	Nitric Acid
26. 7723-14-0	Phosphorus
27. 7778-50-9	Potassium Dichromate
28. 1310-58-3	Potassium Hydroxide
29. 115-07-1	Propylene
30. 10588-01-9	Sodium Dichromate
31. 1310-73-2	Sodium Hydroxide
32. 7646-78-8	Stannic Chloride
33. 7772-99-8	Stannous Chloride
34. 7664-93-9	Sulfuric Acid
35. 108-88-3	Toluene
36. 1330-20-7	Xylene
37. 7646-85-7	Zinc Chloride
38. 7733-02-0	Zinc Sulfate

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde
2. 64-19-7	Acetic Acid
3. 108-24-7	Acetic Anhydride
4. 75-86-5	Acetone Cyanohydrin
5. 505-96-7	Acetyl Bromide
6. 75-36-5	Acetyl Chloride
7. 107-02-8	Acrolein
8. 107-13-1	Acrylonitrile
9. 124-04-9	Adipic Acid
10. 309-00-2	Aldrin
11. 10043-01-3	Aluminum Sulfate
12. 107-18-6	Allyl Alcohol
13. 107-05-1	Allyl Chloride
14. 7664-41-7	Ammonia
15. 631-61-8	Ammonium Acetate
16. 1863-63-4	Ammonium Benzoate
17. 1066-33-7	Ammonium Bicarbonate
18. 7789-09-5	Ammonium Bichromate
19. 1341-49-7	Ammonium Bifluoride
20. 10192-30-0	Ammonium Bisulfite
21. 1111-78-0	Ammonium Carbamate
22. 12125-02-9	Ammonium Chloride
23. 7788-98-9	Ammonium Chromate
24. 3012-65-5	Ammonium Citrate, Dibasic
25. 13826-83-0	Ammonium Fluoborate
26. 12125-01-8	Ammonium Fluoride
27. 1336-21-6	Ammonium Hydroxide
28. 6009-70-7	Ammonium Oxalate
29. 16919-19-0	Ammonium Silicofluoride
30. 7773-06-0	Ammonium Sulfamate
31. 12135-76-1	Ammonium Sulfide
32. 10196-04-0	Ammonium Sulfite
33. 14307-43-8	Ammonium Tartrate
34. 1762-95-4	Ammonium Thiocyanate
35. 7783-18-8	Ammonium Thiosulfate
36. 628-63-7	Amyl Acetate
37. 62-53-3	Aniline
38. 7647-18-9	Antimony Pentachloride
39. 7789-61-9	Antimony Tribromide
40. 10025-91-9	Antimony Trichloride
41. 7783-56-4	Antimony Trifluoride
42. 1309-64-4	Antimony Trioxide
43. 1303-32-8	Arsenic Disulfide
44. 1303-28-2	Arsenic Pentoxide
45. 7784-34-1	Arsenic Trichloride
46. 1327-53-3	Arsenic Trioxide
47. 1303-33-9	Arsenic Trisulfide
48. 542-62-1	Barium Cyanide
49. 71-43-2	Benzene
50. 65-85-0	Benzoic Acid
51. 100-47-0	Benzonitrile
52. 98-88-4	Benzoyl Chloride
53. 100-44-7	Benzyl Chloride
54. 7440-41-7	Beryllium
55. 7787-47-5	Beryllium Chloride
56. 7787-49-7	Beryllium Fluoride
57. 13597-99-4	Beryllium Nitrate
58. 123-86-4	Butyl Acetate
59. 84-74-2	n-Butyl Phthalate
60. 109-73-9	Butylamine
61. 107-92-6	Butyric Acid
62. 543-90-8	Cadmium Acetate
63. 7789-42-6	Cadmium Bromide
64. 10108-64-2	Cadmium Chloride
65. 7778-44-1	Calcium Arsenate
66. 52740-16-6	Calcium Arsenite
67. 75-20-7	Calcium Carbide
68. 13765-19-0	Calcium Chromate
69. 592-01-8	Calcium Cyanide
70. 26264-06-2	Calcium Dodecylbenzene Sulfonate
71. 7778-54-3	Calcium Hypochlorite
72. 133-06-2	Captan
73. 63-25-2	Carbaryl
74. 1563-66-2	Carbofuran
75. 75-15-0	Carbon Disulfide
76. 56-23-5	Carbon Tetrachloride
77. 57-74-9	Chlordane
78. 7782-50-5	Chlorine
79. 108-90-7	Chlorobenzene
80. 67-66-3	Chloroform
81. 7790-94-5	Chlorosulfonic Acid
82. 2921-88-2	Chlorpyrifos
83. 1066-30-4	Chromic Acetate
84. 7738-94-5	Chromic Acid
85. 10101-53-8	Chromic Sulfate
86. 10049-05-5	Chromous Chloride
87. 544-18-3	Cobaltous Formate
88. 14017-41-5	Cobaltous Sulfamate
89. 56-72-4	Coumaphos
90. 1319-77-3	Cresol
91. 4170-30-3	Crotonaldehyde
92. 142-71-2	Cupric Acetate
93. 12002-03-8	Cupric Acetoarsenite
94. 7447-39-4	Cupric Chloride
95. 3251-23-8	Cupric Nitrate
96. 5893-66-3	Cupric Oxalate
97. 7758-98-7	Cupric Sulfate
98. 10380-29-7	Cupric Sulfate Ammoniated
99. 815-82-7	Cupric Tartrate
100. 506-77-4	Cyanogen Chloride
101. 110-82-7	Cyclohexane
102. 94-75-7	2,4-D Acid
103. 94-11-1	2,4-D Esters
104. 50-29-3	DDT
105. 333-41-5	Diazinon
106. 1918-00-9	Dicamba
107. 1194-65-6	Dichlobenil
108. 117-80-6	Dichlone
109. 25321-22-6	Dichlorobenzene (all isomers)
110. 266-38-19-7	Dichloropropane (all isomers)
111. 26952-23-8	Dichloropropene (all isomers)
112. 8003-19-8	Dichloropropene-Dichloropropane Mixture
113. 75-99-0	2,2-Dichloropropionic Acid
114. 62-73-7	Dichlorvos
115. 60-57-1	Dieldrin
116. 109-89-7	Diethylamine
117. 124-40-3	Dimethylamine
118. 25154-54-5	Dinitrobenzene (all isomers)
119. 51-28-5	Dinitrophenol
120. 25321-14-6	Dinitrotoluene (all isomers)
121. 85-00-7	Diquat
122. 298-04-4	Disulfoton
123. 330-54-1	Diuron
124. 27176-87-0	Dodecylbenzenesulfonic Acid
125. 115-29-7	Endosulfan (all isomers)
126. 72-20-8	Endrin and Metabolites
127. 106-89-8	Epichlorohydrin
128. 563-12-2	Ethion
129. 100-41-4	Ethyl Benzene
130. 107-15-3	Ethylenediamine
131. 106-93-4	Ethylene Dibromide
132. 107-06-2	Ethylene Dichloride
133. 60-00-4	EDTA
134. 1185-57-5	Ferric Ammonium Citrate
135. 2944-67-4	Ferric Ammonium Oxalate
136. 7705-08-0	Ferric Chloride

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name
137. 7783-50-8	Ferric Fluoride
138. 10421-48-4	Ferric Nitrate
139. 10028-22-5	Ferric Sulfate
140. 10045-89-3	Ferrous Ammonium Sulfate
141. 7758-94-3	Ferrous Chloride
142. 7720-78-7	Ferrous Sulfate
143. 206-44-0	Fluoranthene
144. 50-00-0	Formaldehyde
145. 64-18-6	Formic Acid
146. 110-17-8	Fumaric Acid
147. 98-01-1	Furfural
148. 86-50-0	Guthion
149. 76-44-8	Heptachlor
150. 118-74-1	Hexachlorobenzene
151. 87-68-3	Hexachlorobutadiene
152. 67-72-1	Hexachloroethane
153. 70-30-4	Hexachlorophene
154. 77-47-4	Hexachlorocyclopentadiene
155. 7647-01-0	Hydrochloric Acid (Hydrogen Chloride)
156. 7664-39-3	Hydrofluoric Acid (Hydrogen Fluoride)
157. 74-90-8	Hydrogen Cyanide
158. 7783-06-4	Hydrogen Sulfide
159. 78-79-5	Isoprene
160. 42504-46-1	Isopropanolamine Dodecylbenzenesulfonate
161. 115-32-2	Kelthane
162. 143-50-0	Kepone
163. 301-04-2	Lead Acetate
164. 3687-31-8	Lead Arsenate
165. 7758-95-4	Lead Chloride
166. 13814-96-5	Lead Fluoborate
167. 7783-46-2	Lead Fluoride
168. 10101-63-0	Lead Iodide
169. 18256-98-9	Lead Nitrate
170. 7428-48-0	Lead Stearate
171. 15739-80-7	Lead Sulfate
172. 1314-87-0	Lead Sulfide
173. 592-87-0	Lead Thiocyanate
174. 58-89-9	Lindane
175. 14307-35-8	Lithium Chromate
176. 121-75-5	Malthion
177. 110-16-7	Maleic Acid
178. 108-31-6	Maleic Anhydride
179. 2032-65-7	Mercaptodimethur
180. 592-04-1	Mercuric Cyanide
181. 10045-94-0	Mercuric Nitrate
182. 7783-35-9	Mercuric Sulfate
183. 592-85-8	Mercuric Thiocyanate
184. 10415-75-5	Mercurous Nitrate
185. 72-43-5	Methoxychlor
186. 74-93-1	Methyl Mercaptan
187. 80-62-6	Methyl Methacrylate
188. 298-00-0	Methyl Parathion
189. 7786-34-7	Mevinphos
190. 315-18-4	Mexacarbate
191. 75-04-7	Monoethylamine
192. 74-89-5	Monomethylamine
193. 300-76-5	Naled
194. 91-20-3	Naphthalene
195. 1338-24-5	Naphthenic Acid
196. 7440-02-0	Nickel
197. 15699-18-0	Nickel Ammonium Sulfate
198. 37211-05-5	Nickel Chloride
199. 12054-48-7	Nickel Hydroxide
200. 14216-75-2	Nickel Nitrate
201. 7786-81-4	Nickel Sulfate
202. 7697-37-2	Nitric Acid
203. 98-95-3	Nitrobenzene
204. 10102-44-0	Nitrogen Dioxide
205. 25154-55-6	Nitrophenol (all isomers)
206. 1321-12-6	Nitrotoluene
207. 30525-89-4	Paraformaldehyde
208. 56-38-2	Parathion
209. 608-93-5	Pentachlorobenzene
210. 87-86-5	Pentachlorophenol
211. 85-01-8	Phenanthrene
212. 108-95-2	Phenol
213. 75-44-5	Phosgene
214. 7664-38-2	Phosphoric Acid
215. 7723-14-0	Phosphorus
216. 10025-87-3	Phosphorus Oxychloride
217. 1314-80-3	Phosphorus Pentasulfide
218. 7719-12-2	Phosphorus Trichloride
219. 7784-41-0	Potassium Arsenate
220. 10124-50-2	Potassium Arsenite
221. 7778-50-9	Potassium Bichromate
222. 7789-00-6	Potassium Chromate
223. 7722-64-7	Potassium Permanganate
224. 2312-35-8	Propargite
225. 79-09-4	Propionic Acid
226. 123-62-6	Propionic Anhydride
227. 1336-36-3	Polychlorinated Biphenyls
228. 151-50-8	Potassium Cyanide
229. 1310-58-3	Potassium Hydroxide
230. 75-56-9	Propylene Oxide
231. 121-29-9	Pyrethrins
232. 91-22-5	Quinoline
233. 108-46-3	Resorcinol
234. 7446-08-4	Selenium Oxide
235. 7761-88-8	Silver Nitrate
236. 7631-89-2	Sodium Arsenate
237. 7784-46-5	Sodium Arsenite
238. 10588-01-9	Sodium Bichromate
239. 1333-83-1	Sodium Bifluoride
240. 7631-90-5	Sodium Bisulfite
241. 7775-11-3	Sodium Chromate
242. 143-33-9	Sodium Cyanide
243. 25155-30-0	Sodium Dodecylbenzene Sulfonate
244. 7681-49-4	Sodium Fluoride
245. 16721-80-5	Sodium Hydrosulfide
246. 1310-73-2	Sodium Hydroxide
247. 7681-52-9	Sodium Hypochlorite
248. 124-41-4	Sodium Methylate
249. 7632-00-0	Sodium Nitrate
250. 7558-79-4	Sodium Phosphate, Dibasic
251. 7601-54-9	Sodium Phosphate, Tribasic
252. 10102-18-8	Sodium Selenite
253. 7789-06-2	Strontium Chromate
254. 57-24-9	Strychnine and Salts
255. 100-42-5	Styrene
256. 12771-08-3	Sulfur Monochloride
257. 7664-93-9	Sulfuric Acid
258. 93-76-5	2,4,5-T Acid
259. 2008-46-0	2,4,5-T Amines
260. 93-79-8	2,4,5-T Esters
261. 13560-99-1	2,4,5-T Salts
262. 93-72-1	2,4,5-TP Acid
263. 32534-95-5	2,4,5-TP Acid Esters
264. 72-54-8	TDE
265. 95-94-3	Tetrachlorobenzene
266. 127-18-4	Tetrachloroethane
267. 78-00-2	Tetraethyl Lead
268. 107-49-3	Tetraethyl Pyrophosphate
269. 7446-18-6	Thallium (I) Sulfate
270. 108-88-3	Toluene
271. 8001-35-2	Toxaphene
272. 12002-48-1	Trichlorobenzene (all isomers)
273. 52-68-6	Trichlorfon
274. 25323-89-1	Trichloroethane (all isomers)
275. 79-01-6	Trichloroethylene
276. 25167-82-2	Trichlorophenol (all isomers)
277. 27323-41-7	Triethanolamine Dodecylbenzenesulfonate
278. 121-44-8	Triethylamine
279. 75-50-3	Trimethylamine
280. 541-09-3	Uranyl Acetate
281. 10102-06-4	Uranyl Nitrate
282. 1314-62-1	Vanadium Pentoxide
283. 27774-13-6	Vanadyl Sulfate
284. 108-05-4	Vinyl Acetate
285. 75-35-4	Vinylidene Chloride
286. 1300-71-6	Xylenol
287. 557-34-6	Zinc Acetate
288. 52628-25-8	Zinc Ammonium Chloride
289. 1332-07-6	Zinc Borate
290. 7699-45-8	Zinc Bromide
291. 3486-35-9	Zinc Carbonate
292. 7646-85-7	Zinc Chloride
293. 557-21-1	Zinc Cyanide
294. 7783-49-3	Zinc Fluoride
295. 557-41-5	Zinc Formate
296. 7779-86-4	Zinc Hydrosulfite
297. 7779-88-6	Zinc Nitrate
298. 127-82-2	Zinc Phenolsulfonate
299. 1314-84-7	Zinc Phosphide
300. 16871-71-9	Zinc Silicofluoride
301. 7733-02-0	Zinc Sulfate
302. 13746-89-9	Zirconium Nitrate
303. 16923-95-8	Zirconium Potassium Fluoride
304. 14644-61-2	Zirconium Sulfate
305. 10026-11-6	Zirconium Tetrachloride