

SITE: Vantran Electric Corp  
BREAK: 1.9  
OTHER: v. 2

## **SITE INSPECTION REPORT**

### **VOLUME 2**

**VANTRAN ELECTRIC CORPORATION  
LOUISVILLE, JEFFERSON COUNTY, GEORGIA  
GAD 051 041 424**

#### **PREPARED FOR:**

**U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION IV  
ATLANTA FEDERAL BUILDING  
61 FORSYTH STREET, S.W.  
ATLANTA, GEORGIA 30303-3415**

#### **PREPARED BY:**

**ANDREW S. TAFT  
GEORGIA ENVIRONMENTAL PROTECTION DIVISION  
2 MARTIN LUTHER KING JR. DRIVE  
FLOYD TOWER EAST, SUITE 1154  
ATLANTA, GEORGIA 30334**

**NOVEMBER 2002**



**10583837**

# APPENDIX K

**SITE INSPECTION  
SAMPLING AND ANALYSIS PLAN**

**VANTRAN ELECTRIC CORPORATION  
LOUISVILLE, JEFFERSON COUNTY, GEORGIA  
GAD 051 041 424**

**PREPARED FOR:**

**U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION IV  
ATLANTA FEDERAL BUILDING  
61 FORSYTH STREET, S.W.  
ATLANTA, GEORGIA 30303-3415**

**PREPARED BY:**

**ANDREW S. TAFT  
GEORGIA ENVIRONMENTAL PROTECTION DIVISION  
2 MARTIN LUTHER KING JR. DRIVE  
FLOYD TOWER EAST, SUITE 1154  
ATLANTA, GEORGIA 30334**

**JULY 2002**

## **CONTENTS**

### **1.0 INTRODUCTION**

### **2.0 SITE DESCRIPTION**

2.1 Site Location

2.2 Site Description

2.3 Operational History and Waste Characteristics

### **3.0 COLLECTION OF NON-SAMPLING DATA**

### **4.0 SAMPLING ACTIVITIES**

4.1 Source Sampling

4.2 Groundwater Sampling

4.3 Surface Water Sampling

4.4 Soil Sampling

4.5 Quality Assurance/Quality Control Procedures

4.6 Field Activities

### **5.0 INVESTIGATION DERIVED WASTE PLAN**

### **6.0 REFERENCES**

### **FIGURES**

Figure 1: Site Location/Site Reference Point

Figure 2: Site Sketch

Figure 3: Approximate Locations of Groundwater Samples

Figure 4: Approximate Locations of Soil Samples

Figure 5: Approximate Locations of Surface Water & Sediment Samples

Figure 6: On-Site Topography

### **TABLES**

Table 1: Proposed Samples

Table 2: Project Personnel

### **APPENDICES**

Appendix A: Target Compound List (TCL) and Target Analyte List (TAL)

Appendix B: EPD Laboratory Data Quality Objectives

Appendix C: Equipment List

Appendix D: Health and Safety Plan



## 1.0 INTRODUCTION

Under authority of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Georgia Department of Natural Resources, Environmental Protection Division (EPD) will complete a Site Investigation (SI) report for the Vantran Electric Corporation (hereinafter "site") located in Louisville, Jefferson County, Georgia. The purpose of the SI is to collect information concerning current conditions at the site necessary to assess the immediate or potential threat posed to human health and/or the environment, determine the need for additional investigation under CERCLA/SARA or other authority and, if appropriate, support site evaluations using the Hazardous Ranking System (HRS) for proposal to the National Priorities List (NPL), (Ref. 1). The scope of the SI will included a review of available file documentation, a comprehensive target survey, an on-site reconnaissance, an off-site reconnaissance and the sampling and analysis of environmental media collected from both on-site and off-site (Ref. 2).

## 2.0 SITE DESCRIPTION

### 2.1 Site Location

The site is located at 1600 Midville Road (a.k.a. Georgia Highway 17), at the southwest corner of the intersection of Midville Road and Airport Road (Ref. 3). Designated Tax Parcel No. 91-55 by the Jefferson County Tax Assessors Office, the site is less than 2000 feet north of the single runway comprising the Louisville Municipal Airport (Refs. 3 - 4, 6). Located within the Louisville Industrial Airpark, the site's geographical coordinates are 32° 59' 28.3" North Latitude and 82° 23' 10.0" West Longitude, as measured from the southwest corner of the original on-site rectangular building (as the building is depicted in the 1:24,000 scale 1973 Louisville South Quadrangle topographic map), (Refs. 3 - 5). Figure 1 depicts the site location.

### 2.2 Site Description

The site is bounded to the north by Georgia Highway 17, bounded to the east by Airport Road, bounded to the south by undeveloped mostly wooded property own by the City of Louisville (Tax Parcel No. 90-112) and bound to the west by undeveloped wooded property owned by Long Leaf Enterprises, Inc. (i.e., Mr. Burney Thompson of Wren, Georgia), (Tax Parcel No. 91-80), (Refs. 3, 6).

The dominant feature of the 11.362 acre site is the original rectangular single story building measuring 161 feet by 226 feet (i.e., 36,386 square feet), (Ref. 3, 6). An approximate 4,000 square feet addition was added sometime in the late 1970s to the early 1980s (Ref. 3). The single story addition is contiguous to the west wall of the original building and was built 30 feet high to facilitate operation of an overhead crane. A small metal shed is located immediate south of the southwest corner of the original building. Figure 2 depicts a site sketch.

Two intersecting asphalt driveways provide access to the building, one from Georgia Highway 17, the other from Airport Road (Ref. 3). An asphalt parking area in front of the building intersects the driveway connected to Georgia Highway 17. Behind the building, a concrete slab runs adjacent to (and along the entire length) of the south wall of the original building (i.e., not including the addition to the west). Figure 2 depicts these paved areas. Other than the building and associated

paved areas, the remainder of the site consists of open fields/lawn and an undeveloped wooded area which extends to contiguous properties located both west and south of the site.

Two above ground storage tanks labeled "mineral oil" are located east of the building, adjacent to Airport Road, immediately north of the driveway providing access from Airport Road (Ref. 3). A gasoline pump labeled "contains lead" is adjacent to the above ground storage tanks.

During a June 25-26, 2002 on-site reconnaissance, the largest area of stained soil and stressed vegetation was observed behind the original building, in a graveled area, just south of the concrete slab (Ref. 3). Additional stained soil and stressed vegetation were observed near the before mentioned small metal shed, near the before mentioned above ground storage tanks and along Airport Road, north of the driveway providing access from Airport Road, towards a pipe culvert underlying Airport Road which is parallel to, and adjacent to, Georgia Highway 17.

### **2.3 Operational History and Waste Characteristics**

Prior to 1970, the on-site building was constructed as an industrial spec. building on property owned by the City of Louisville (Ref. 3). The building may have been used as a warehouse prior to being purchased in 1970 by Vantran Electric Corporation of Waco, Texas (hereinafter "Vantran"), (Ref. 7). From 1970 until sometime in 1973, Vantran manufactured PCB containing transformers on-site (Ref. 8). Various on-site processes related to the manufacturing of transformers included painting, baking and annealing in ovens, welding, the winding of core/coils and assembly (Ref. 7). Transformer manufacturing processes were ceased in 1973, however, Vantran refurbished used transformers on-site until sometime prior to 1987 (Ref. 8).

On July 8, 1981, soil samples were collected on-site by the U.S. Environmental Protection Agency (EPA), (Refs. 9 - 10). Based upon the analysis of these soil samples, PCBs were detected at a highest concentration of 660 ppm. At that time, Vantran acknowledged that in the past, PCB contaminated transformer oil may have been applied to the ground surface to suppress dust (Refs. 10 - 11). Additionally, the EPA documented that water and sediment contaminated with PCBs were routinely drained to the ground surface from a bulk tank located behind the building (Ref. 11). Also observed by the EPA at that time was an approximately 20 yard by 50 yard area behind the building which was saturated with oil.

In correspondence dated July 22, 1982, the EPA determined that the site was not subject to the requirements of the Toxic Substance Control Act due to the fact that no evidence existed which suggested PCB activity at the site after April 18, 1978 (Ref. 12). On August 6, 1982, forty 55-gallon drums of waste PCB oil and five 55-gallon drums of PCB contaminated soil were shipped off-site to the Emelle, Alabama facility operated by Chemical Waste Management, Inc. (Ref. 7).

On May 25, 1983, the site was inspected by the Georgia EPD (Ref. 8). At the time of this inspection, two above ground storage tanks located behind the building were being used to contain waste transformer oil as part of a transformer refurbishment process. Although samples were not collected at the time of the inspection, the EPD observed stained soil, stressed vegetation and open/leaking transformers behind the building where approximately 2,000 used transformers were being stored. It was also noted by the EPD that surface water run-off from the transformer storage area drained to a constructed ditch located on contiguous property to the west (Refs. 8, 9, 10)

On February 8, 1984, the EPA conducted a second sampling event, at which time, soil samples were again collected on-site (Ref. 7). Based upon the analysis of these soil samples, PCBs were detected at a highest concentration of 61 ppm (a combination of 2 aroclors).

Vantran ceased on-site operations in the early 1990s (Ref. 3). The on-site building is currently rented-out by Vantran for use as a warehouse by Glit, Inc. of Wrens, Georgia and Thermo King Corporation of Louisville, Georgia. Various equipment owned by Vantran remains inside the building.

### 3.0 COLLECTION OF NON-SAMPLING DATA

Non-sampling data collection will include verifying environmental/site information as well as obtaining new information. A June 25-26, 2002 on-site reconnaissance was conducted to verify current site conditions and plant operations (Ref. 3). During the reconnaissance, photographs were taken to record site observations. Additional data will be gathered as necessary.

Over land surface water run-off routes will be further field verified during the sampling event.

### 4.0 SAMPLING ACTIVITIES

The objectives of this sampling and analysis plan are to collect analytical data necessary to identify hazardous substances at the site (if any), to determine whether hazardous substances have been released environmental media, to ascertain if any releases have impacted human health and the environment and to determine whether hazardous substances attributable to current and/or past on-site operations have migrated off-site (Ref. 2). Environmental media to be sampled include groundwater, soil (both surface and subsurface), sediment and surface water. Table 1 lists the number and types of proposed samples per environmental media.

All analyses will be conducted by the EPD Laboratory located in Atlanta, Georgia. At a minimum, hazardous substances to be analyzed for will include those compounds and analytes included in the Contract Laboratory Program (CLP) Target Compound List (TCL) and Target Analyte List (TAL) found @ <http://www.epa.gov/superfund/programs/clp/target.htm> (excluding dioxins/furans). See Appendix A for TCL/TAL applicable to this SI.

All sampling activities will adhere to the November 2001 edition of the EPA Region 4 *Environmental Investigations Standard Operating Procedures and Quality Assurance Manual* found @ <http://www.epa.gov/region4/sesd/eisopqam/eisopqam.html>.

#### 4.1 Source Sampling

At the time of the June 25-26, 2002 on-site reconnaissance, stained soil and stressed vegetation were observed at the following on-site locations (Ref. 3):

- directly behind the original building in a graveled area, just south of a concrete slab;
- adjacent to a small metal shed immediately south of the southwest corner of the original building;
- adjacent to two above ground storage tanks east of the building;
- along Airport Road, north of the driveway providing site access from Airport Road.

For the purposes of this SI, the above described areas of stained soil and stressed vegetation are considered potential sources. Accordingly, a total of six surface soil samples (0 to 2 feet) and two subsurface soil samples (2 to 4 feet) are proposed in these areas to characterize the potential sources. Areas of stained soil and stressed vegetation are depicted in Figure 2. Approximate locations of proposed soil samples are depicted in Figure 4.

#### **4.2 Groundwater Sampling**

A slight topographic ridge bisects the site (Refs. 3, 4). The approximate location of this ridge is depicted in Figure 6. Surface water run-off originating from the eastern side of the ridge flows east and south towards the northeast corner of the site, thru a pipe culvert underlying Airport Road and ultimately flows east along Georgia Highway 17 towards the perennial Manson Branch. Surface water run-off originating from the western side of the site flows west/northwest towards an off-site constructed drainage ditch, which ultimately discharges to the perennial Ogeechee River located south of the site. The two surface water run-off routes are depicted in Figure 5.

Due to the existing topographic ridge, the two opposing surface water run-off routes and the fact that the site is located between two perennial surface water bodies, it is possible that a local groundwater divide underlies the site. This groundwater divide may be located along the topographic ridge depicted in Figure 6.

Four groundwater samples will be collected on-site using the Direct Push/Geoprobe method. An attempt to establish representative background concentrations of hazardous substances will be made by situating a groundwater sample location along the before mentioned topographic ridge at a local topographic high point located a good distance behind the building. It is understood that site topography may or may not reflect local groundwater flow. The remaining three groundwater sampling locations will be placed topographically downgradient of areas exhibiting stained soil and stressed vegetation. The approximate locations of proposed groundwater samples are depicted in Figure 3. Areas of stained soil and stressed vegetation are depicted in Figure 2.

#### **4.3 Surface Water Sampling**

See Section 4.2 above (Groundwater Sampling) for a description of two surface water run-off routes. Six sediment and two surface water samples will be collected off-site.

Three sediment samples will be collected along a series of constructed ditches located on contiguous property west of the site to determine if hazardous substance have migrated off-site in a westerly direction. Surface water is not expected to be encountered within the ditches. Contiguous property to the west is owned by Long Leaf Enterprises, Inc. (a.k.a., Mr. Burney Thompson) and has been designated Tax Parcel No. 91-80 by the Jefferson County Tax Assessors Office (Ref. 6).

One sediment sample will be collected on the opposite side of pipe culvert underlying Airport Road to determine whether hazardous substances have migrated off-site in a easterly direction. This property, on the opposite side of Airport Road, is owned by the City of Louisville and has been designated Tax Parcel No. 91-50 by the Jefferson County Tax Assessors Office (Ref. 6).

Two surface water samples and two co-located sediment samples will be collected from Manson Branch. One surface water sample and one co-located sediment sample will be collected immediately upstream from the Georgia Highway 17 bridge to represent background conditions. A second surface water sample (and co-located sediment sample) will be collected downstream of the bridge, downstream of where the surface water run-off originating from the site enters Manson Branch.

#### **4.4 Soil Sampling**

For the purposes of this SI, soil sampling and source sampling are considered equivalent (except background. See Section 4.1 (Source Sampling) above for a description of areas of stained soil and stressed vegetation on-site. A total of five surface soil samples (0 to 2 feet) and two subsurface soil samples (2 to 4 feet) are proposed in these areas to characterize potential sources. Areas of stained soil and stressed vegetation are depicted in Figure 2. A background soil sample will be collected (0 to 2 feet) adjacent to the background groundwater sample location (see Section 4.2 above). Approximate locations of proposed soil samples are depicted in Figure 4.

#### **4.5 Quality Assurance/Quality Control Procedures**

Laboratory chain of custody forms will be used to document the transfer of samples among field personnel, and to document delivery to the laboratory. Each sampler will place a chain of custody seal on the cooler or sample container, as appropriate, and sign the chain of custody form before it leaves his possession. Table 1 briefly describes six QA/QC samples.

All equipment to come in contact with soil and sediment samples (trowels, spoons, mixing bowls) will be decontaminated prior to the field event by the EPD laboratory, and wrapped in aluminum foil. Because the soil sampling equipment will not be field-decontaminated, no soil equipment blanks will be collected.

EPD Laboratory data quality objectives are included as Appendix B.

#### **4.6 Field Activities**

Field activities will take place the week of July 15, 2002. Access to the site and off-site sampling locations will be arranged prior to sampling activities. Personnel associated with the sampling event are listed in Table 2.

A locate request was made to the Utility Protection Center (UPC) on July 9, 2002. Accordingly, Ticket No. 07092-109-090 was issued by the UPC which extends from 12:00 pm (noon) July 12, 2002 until July 30, 2002. If evidence is not observed on-site which suggests that utilities have been marked, a status check will be made to the UPC at (888) 670-2902. Should any damage to utilities occur during field activities, the UPC will be contacted at 1 (800) 282-7411.

### **5.0 INVESTIGATION DERIVED WASTE PLAN**

Disposable sampling equipment and personal protective equipment (PPE) will be bagged or containerized on-site and returned to the EPD Laboratory for disposal. Reusable sampling equipment will be cleaned in the field with detergent and water to remove residuals and then transported to the EPD Laboratory for further decontamination. Decontamination wastewater

and well purge water will be containerized on-site. A sample from each container may be obtained if necessary to determine the proper disposition of the wastewaters. The container(s) will be properly labeled and left on-site until analytical results are received. Once wastewaters have been characterized, proper disposal will occur in accordance with applicable federal, state and local regulations.

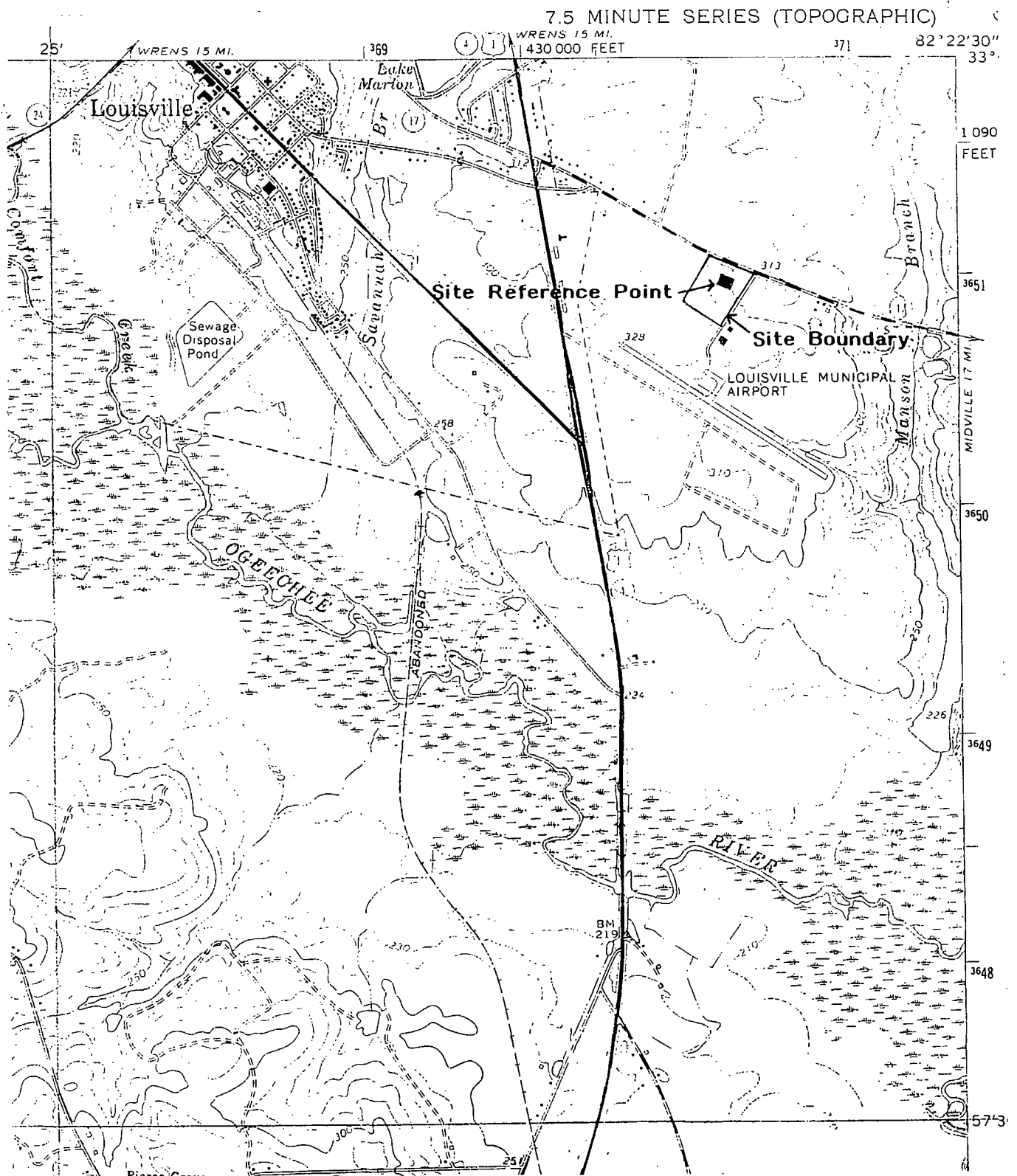
## 6.0 REFERENCES

1. Federal Register, Friday, December 14, 1990, Part II, Environmental Protection Agency, 40 CFR Part 300, Hazardous Ranking System; Final Rule.
2. Guidance for Performing Site Inspections Under CERCLA, Interim Final, U.S. Environmental Protection Agency, Office of Emergency Remedial Response, Washington, D.C. 20460, EPA/540-R-92-021, PB92-963375, September 1992.
3. Andrew S. Taft, Environmental Specialist, Environmental Specialist, Georgia Department of Natural Resources, Environmental Protection Division RE: Logbook and Photographic Documentation of June 25-26, 2002 On-Site Reconnaissance and Partial Off-Site Reconnaissance.
4. United States Department of the Interior, Geologic Survey, 7.5 Minute Series Topographic Maps; 1950 Kelly's Pond Quadrangle, 1948 Louisville Quadrangle (Photo-revised 1980), 1973 Louisville South Quadrangle (Photo-inspected 1981), 1973 Old Town Quadrangle.
5. Guidance for Performing Preliminary Assessments Under CERCLA, U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Washington, D.C. 20460, EPA/540/G-19/013, September 1991 [Appendix E: Standard Operating Procedure to Determine Site Latitude and Longitude Coordinates, Latitude and Longitude Calculation Worksheet #2, LI Using Engineer's Scale (1/60)].
6. Jefferson County Tax Assessors Office, Map 91, Scale :1" = 660', Aerial Photography Flown on March 3, 1996, Print Outs of Associated Database and Plate of Survey, Deed Book 100, Page 302.
7. Steve Parke, Vice President, Vantran Industries, Inc., June 18, 2002 Correspondence to Andrew Taft, Environmental Protection Division, Georgia Department of Natural Resources RE: Site History, Past On-Site Processes, Alabama Hazardous Waste Manifest No. 50881 and Analytical Results of January 25, 1984 Sampling Event.
8. Jim Ussery, Environmental Specialist, Environmental Protection Division, Georgia Department of Natural Resources, May 26, 1983 Trip Report RE: Documentation of May 25, 1983 On-Site Inspection.
9. Ralph Jennings, Chief, Toxic Substances Section, U.S. Environmental Agency, March 3, 1982 Memorandum to Paul Traina, Director, Water Division, U. S. Environmental Protection Agency RE: Analytical Results of July 8, 1981 Sampling Event and Surface Water Run-Off to Ditch on Adjacent Property.
10. Thomas Devine, Director, Air and Hazardous Materials Division, U.S. Environmental Protection Agency, October 23, 1991 Memorandum to Howard, Zeller, Director, Enforcement Division, U.S. Environmental Protection Agency RE: Applicability of the Toxic Control Act, Analytical Results of July 8, 1981 Sampling Event, Documentation of Surface Water Run-Off to Constructed Drainage Ditch on Adjacent Property.

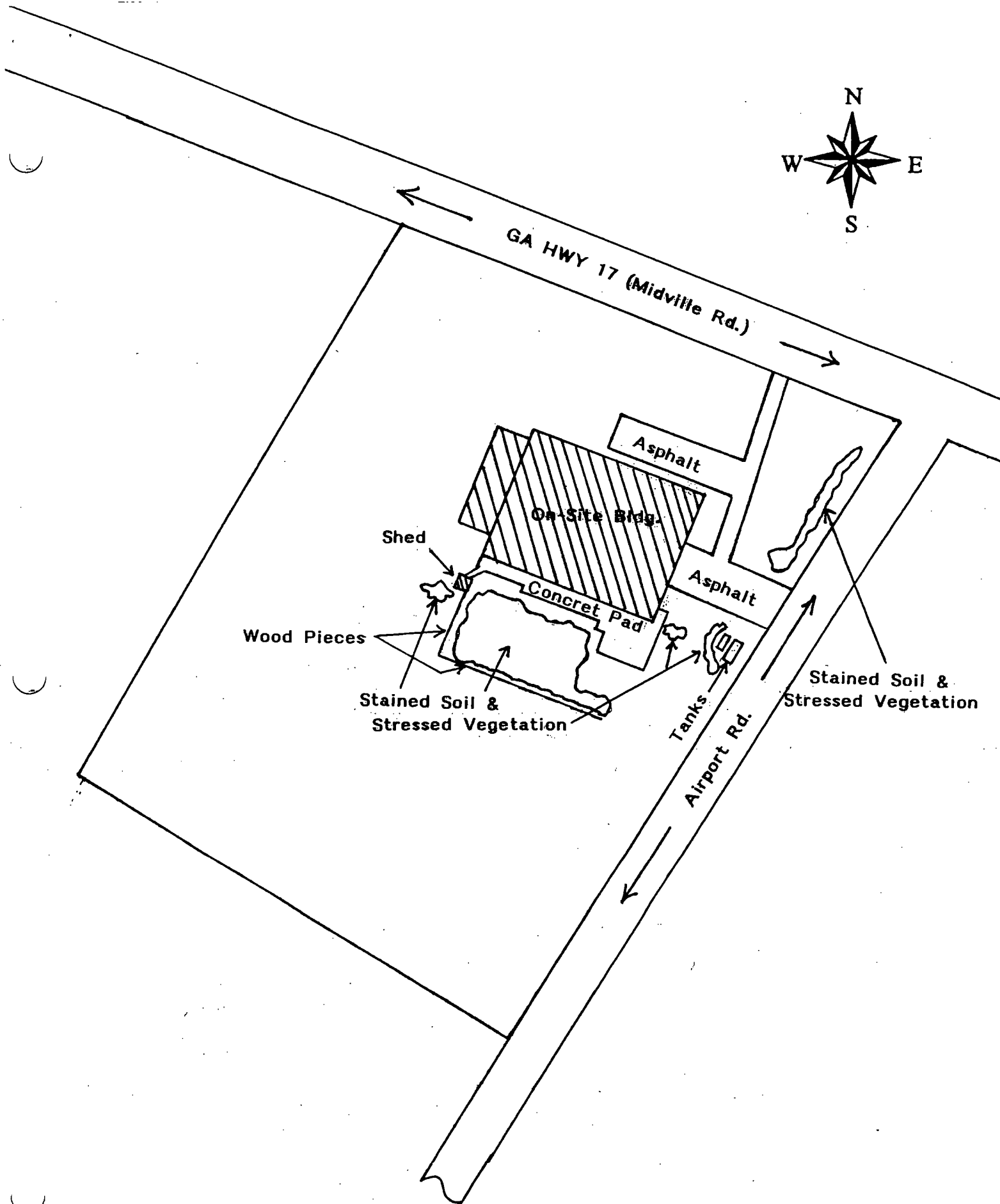
11. Joe Young, Consumer Safety Officer, U.S. Environmental Protection Agency, July 1981 PCB Inspection Report RE: Documentation of On-Site Inspection (date of inspection not provided).
12. Charles R. Jeter, Regional Administrator, U.S. Environmental Protection Agency, July 22, 1982 Correspondence to J. Leonard Ledbetter, Director, Georgia Department of Natural Resources, Environmental Protection Division RE: Applicability of the Toxic Substance Control Act.



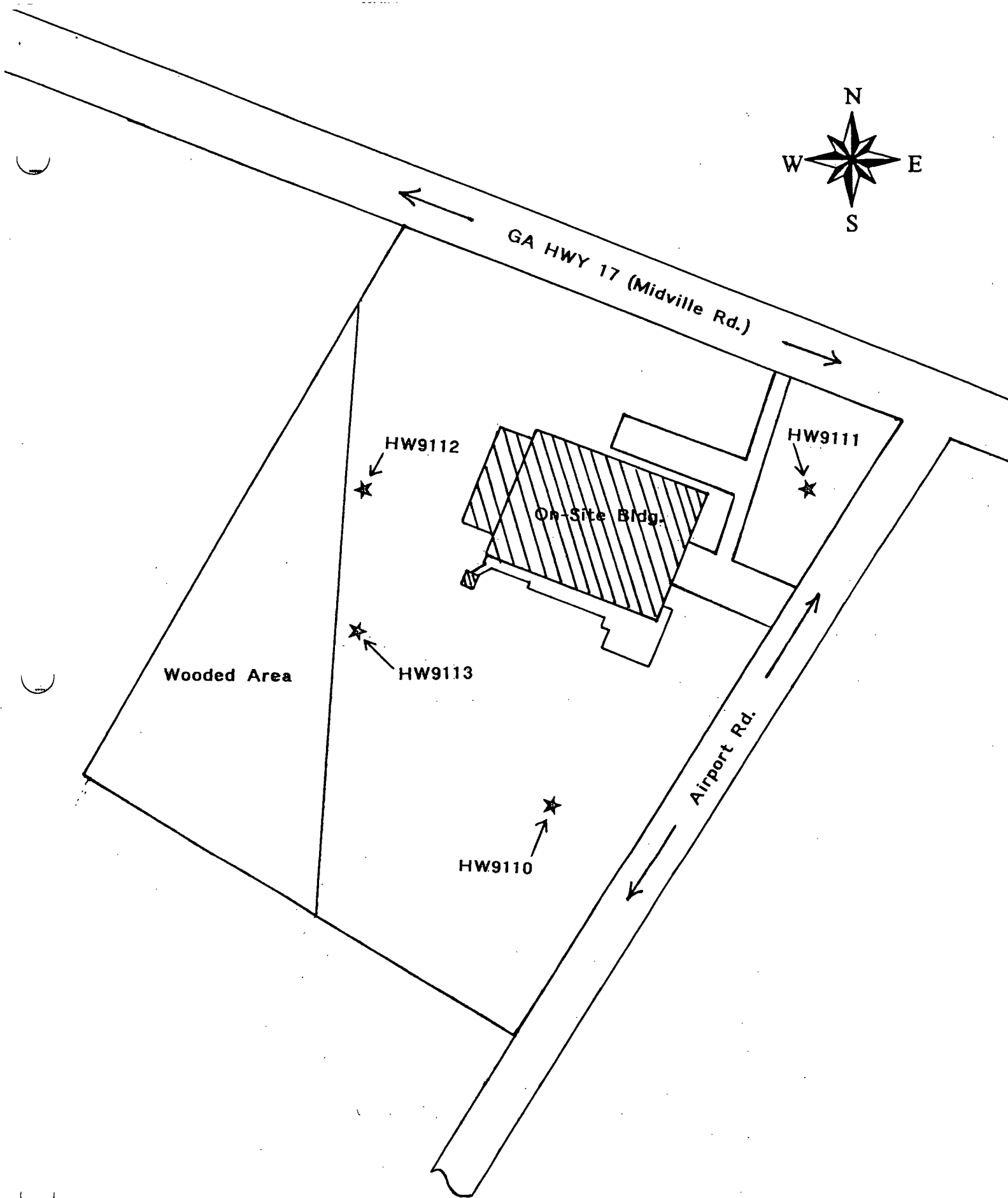
**FIGURES 1 - 6**



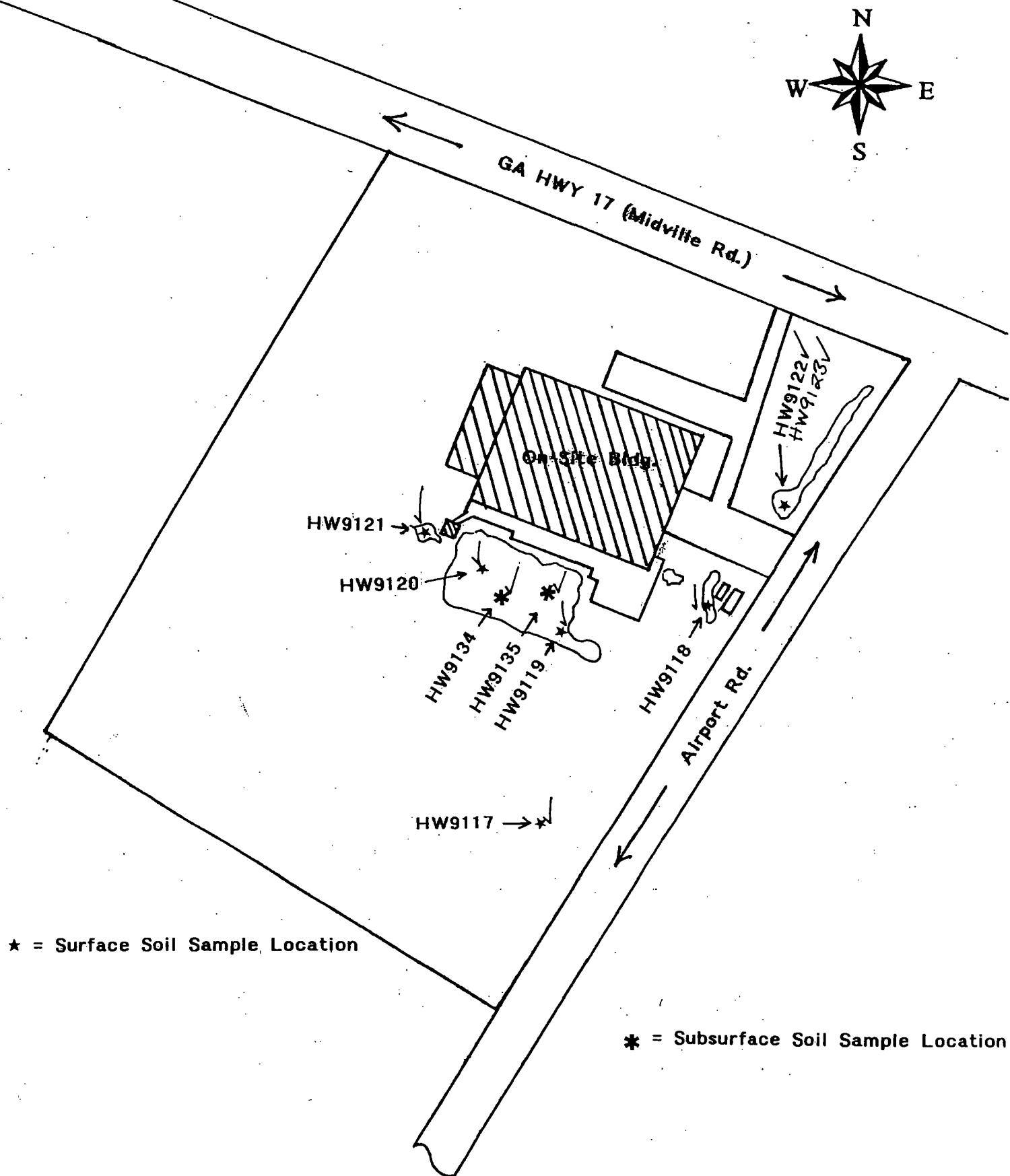
**FIGURE 1: Site Location/Site Reference Point**  
(Refs. 3 – 6)



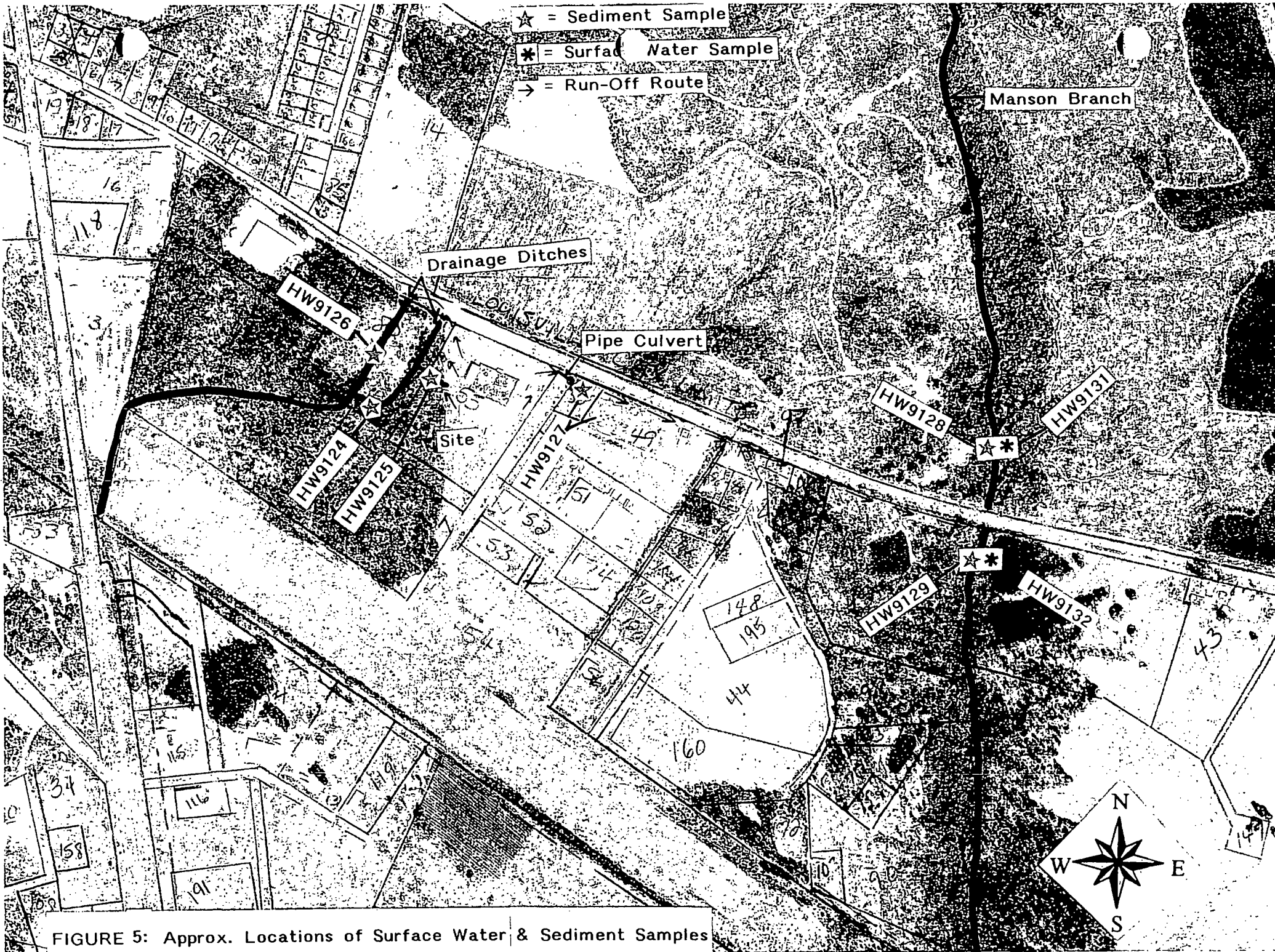
**FIGURE 2: Site Sketch**  
(Refs. 3, 6)

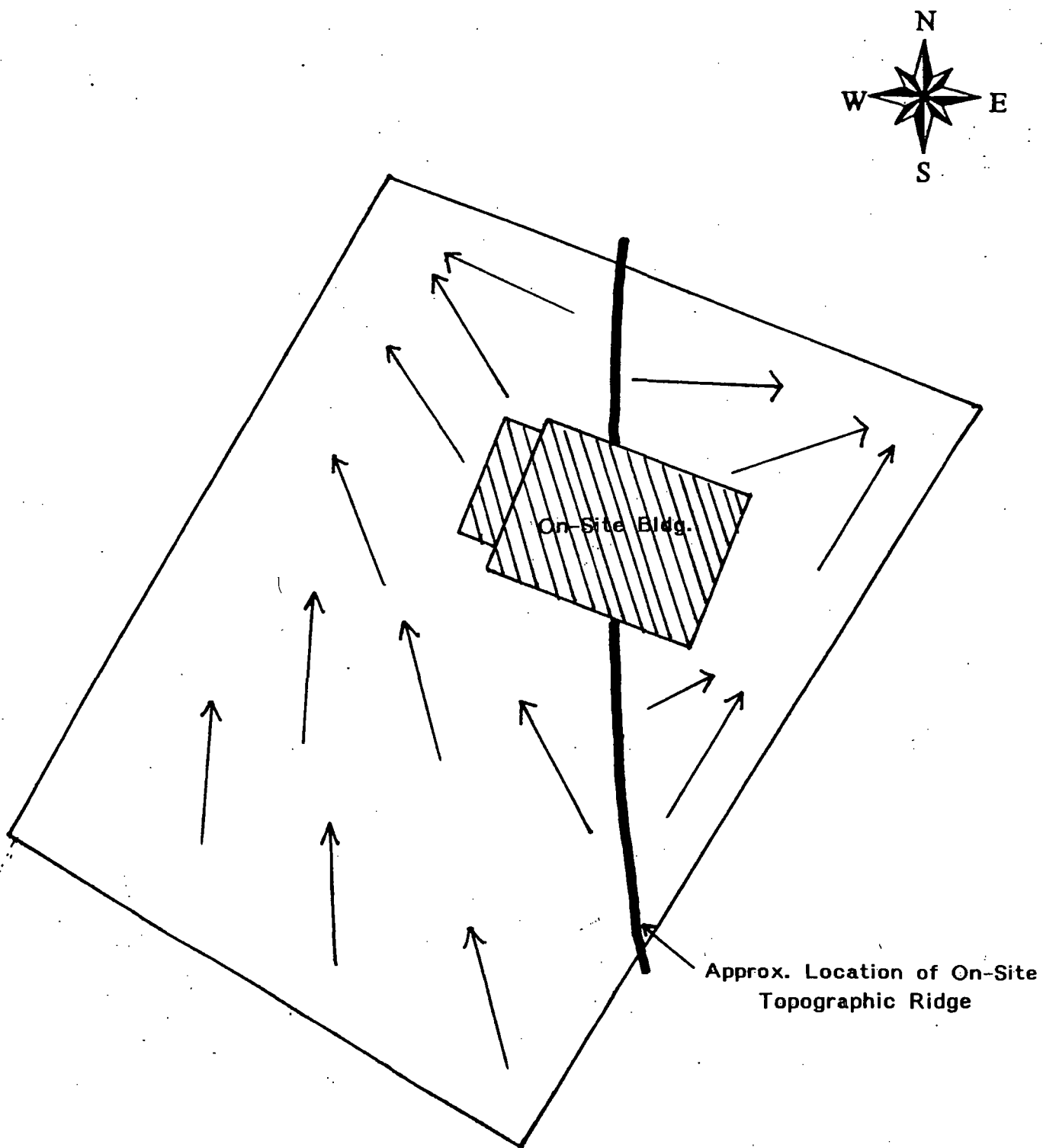


**FIGURE 3: Approximate Locations of Groundwater Samples**  
(Refs. 3, 6)



**FIGURE 4: Approximate Locations of Soil Samples**  
(Refs. 3, 6)





**FIGURE 6: Site Topography**  
(Ref. 3 - 4)

**TABLES 1 - 2**



## TABLE 1: Proposed Samples

Purpose	Sample No.	Objective/Rationale	Specific Location
Ground Water (GW)	HW9110	Establish background concentrations of hazardous substances in GW. Proposed location is along a slight topographic ridge, topographically upgradient of stained soil and stressed vegetation.	Figure 3
	HW9111	Determine presence/absence of hazardous substances in GW. Proposed location is topographically downgradient of stained soil and stressed vegetation.	Figure 3
	HW9112	Determine presence/absence of hazardous substances in GW. Proposed location is topographically downgradient of stained soil and stressed vegetation.	Figure 3
	HW9113	Determine presence/absence of hazardous substances in GW. Proposed location is topographically downgradient of stained soil and stressed vegetation.	Figure 3
QA/QC	HW9114	Duplicate of Sample No. HW9113	Figure 3
	HW9115	GW Field Blank	N/A
	HW9116	GW Trip Blank	N/A
Surface Soil (SS)	HW9117	Establish background concentrations of hazardous substances in SS. Proposed location is along a slight topographic ridge, topographically upgradient of stained soil and stressed vegetation.	Figure 4
	HW9118	Determine presence/absence of hazardous substances in SS and characterize potential source areas. Proposed location is within an area of stained soil and stressed vegetation.	Figure 4
	HW9119	Determine presence/absence of hazardous substances in SS and characterize potential source areas. Proposed location is within an area of stained soil and stressed vegetation.	Figure 4
	HW9120	Determine presence/absence of hazardous substances in SS and characterize potential source areas. Proposed location is within an area of stained soil and stressed vegetation.	Figure 4
	HW9121	Determine presence/absence of hazardous substances in SS and characterize potential source areas. Proposed location is within an area of stained soil and stressed vegetation.	Figure 4
	HW9122	Determine presence/absence of hazardous substances in SS and characterize potential source areas. Proposed location is within an area of stained soil and stressed vegetation.	Figure 4
QA/QC	HW9123	Duplicate of Sample No. HW9122.	Figure 4
Sediment (SD)	HW9124	Determine presence/absence of hazardous substances in SD and determine if hazardous substances are migrating to adjacent property.	Figure 5
	HW9125	Determine presence/absence of hazardous substances in SD and determine if hazardous substances are migrating to adjacent property.	Figure 5
	HW9126	Determine presence/absence of hazardous substances in SD and determine if hazardous substances are migrating to adjacent property.	Figure 5
	HW9127	Determine presence/absence of hazardous substances in SD and determine if hazardous substances are migrating to adjacent property.	Figure 5
	HW9128	Establish background concentrations of hazardous substances in SD collected from Manson Branch, upstream of point of probable entry.	Figure 5
	HW9129	Determine presence/absence of hazardous substances in SD collected from Manson Branch, downstream from point of probable entry.	Figure 5
QA/QC	HW9130	Duplicate of Sample No. HW9129.	Figure 5

**TABLE 1: Proposed Samples (Continued)**

<b>Purpose</b>	<b>Sample No.</b>	<b>Objective/Rationale</b>	<b>Specific Location</b>
Surface Water (SW)	HW9131	Establish background concentrations of hazardous substances in SW collected from Manson Branch, upstream of point of probable entry.	Figure 5
	HW9132	Determine presence/absence of hazardous substances in SW collected from Manson Branch, downstream from point of probable entry.	Figure 5
	HW9133	Duplicate of Sample No. HW9132.	Figure 5
Sub-Surface Soil (SSS)	HW9134	Characterize potential source area.	Figure 4
	HW9135	Characterize potential source area.	Figure 4

**TABLE 2: Project Personnel**

<b>PERSONNEL</b>	<b>JOB TITLE</b>	<b>SITE RESPONSIBILITIES</b>
Andrew Taft	Environmental Specialist/Project Manager	Coordinate site access and all sampling activities. Procure surface water and sediment samples. Transport samples to the EPD Laboratory.
Bob Pierce	Geologist	Procure groundwater and subsurface soil samples using the Geoprobe.
Stacy Box	Geologist	Procure groundwater and subsurface soil samples using the Geoprobe.
Larry Papetti	Geologist	Procure surface soil and sediment samples using hand auger. Return samples to the EPD Laboratory
Mauri Centis	Geologist	Procure surface soil and sediment samples using hand auger.
Deadre Whittington	Environmental Technician	Assist as needed. Transport samples to the EPD Laboratory.

**APPENDIX A: Target Compound List (TCL) and Target Analyte  
List (TAL)**

## Volatile Target Compound List (TCL)

Dichlorodifluoromethane	cis-1,3-Dichloropropene
Chloromethane	Trichloroethene
Bromomethane	Methylcyclohexane
Vinyl Chloride	Dibromochloromethane
Chloroethane	1,1,2-Trichloroethane
Trichlorofluoromethane	Benzene
1,1,2-Trichloro-1,2,2-trifluoroethane	trans-1,3-Dichloropropene
Methylene Chloride	Bromoform
Acetone	Isopropylbenzene
Carbon Disulfide	4-Methyl-2-pentanone
Methyl Acetate	2-Hexanone
1,1-Dichloroethene	Tetrachloroethene
1,1-Dichloroethane	1,2-Dibromoethane
cis-1,2-Dichloroethene	Toluene
trans-1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
Methyl tert-Butyl Ether	Chlorobenzene
Chloroform	Ethylbenzene
1,2-Dichloroethane	Styrene
2-Butanone	Xylenes (Total)
Bromochloromethane	1,2-Dibromo-3-chloropropane
1,1,1-Trichloroethane	1,3-Dichlorobenzene
Cyclohexane	1,4-Dichlorobenzene
Carbon Tetrachloride	1,2-Dichlorobenzene
Bromodichloromethane	1,2,3-Trichlorobenzene
1,2-Dichloropropane	1,2,4-Trichlorobenzene

## Semi-Volatile Target Compound List (TCL)

Benzaldehyde	2,4-Dinitrophenol
Phenol	4-Nitrophenol
bis(2-Chloroethyl) ether	Dibenzofuran
2-Chlorophenol	2,4-Dinitrotoluene
2-Methylphenol	Diethylphthalate
2,2-oxybis(1-Chloropropane)	4-Chlorophenyl-phenylether
Acetophenone	Fluorene
4-Methylphenol	4-Nitroaniline
N-Nitroso-di-n-propylamine	4,6-Dinitro-2-methylphenol
Hexachloroethane	N-Nitrosodiphenylamine
Nitrobenzene	4-Bromophenyl-phenylether
Isophorone	Hexachlorobenzene
2-Nitrophenol	Atrazine
2,4-Dimethylphenol	Pentachlorophenol
bis(2-Chloroethoxy) methane	Phenanthrene
2,4-Dichlorophenol	Anthracene
Naphthalene	Carbazol
4-Chloroaniline	Di-n-butylphthalate
Hexachlorobutadiene	Fluoranthene
Caprolactam	Pyrene
4-Chloro-3-methylphenol	Butylbenzylphthalate
2-Methylnapthalene	3,3-Dichlorobenzidine
Hexachlorocyclopentadiene	Benzo(a)anthracene
2,4,6-Trichlorophenol	Chrysene
2,4,5-Trichlorophenol	bis-(2-Ethylhexyl)phthalate
1,1-Biphenyl	Di-n-octylphthalate
2-Chloronaphthalene	Benzo(b)fluoranthene
2-Nitroaniline	Benzo(k)fluoranthene
Dimethylphthalate	Benzo(a)pyrene
Acenaphthylene	Indeno(1,2,3-cd)pyrene
2,6-Dinitrotoluene	Dibenzo(a,h)anthracene
3-Nitroaniline	Benzo(g,h,i)perylene
Acenaphthene	1,2,4,5-Tetrachlorobenzene

## Pesticides/Aroclors (PCBs) Target Compound List (TCL)

alpha-BHC	4,4-DDT
beta-BHC	Methoxychlor
delta-BHC	Endrin ketone
gamma-BHC (Lindane)	Endrin aldehyde
Heptachlor	alpha-Chlordane
Aldrin	gamma-Chlordane
Heptachlor epoxide	Toxaphene
Endosulfan I	Aroclor-1016
Dieldrin	Aroclor-1221
4,4-DDE	Aroclor-1232
Endrin	Aroclor-1242
Endosulfan II	Aroclor-1248
4,4-DDD	Aroclor-1254
Endosulfan sulfate	Aroclor-1260

## Metals/Cyanide Target Analyte List (TAL)

Aluminum	Magnesium
Antimony	Manganese
Arsenic	Mercury
Barium	Nickel
Beryllium	Potassium
Cadmium	Selenium
Calcium	Silver
Chromium	Sodium
Cobalt	Thallium
Copper	Vanadium
Iron	Zinc
Lead	Cyanide



## **APPENDIX B: EPD Laboratory Data Quality Objectives**

### A.1.15 EPA Method 8081A – Org-Cl Pesticides in Water/Solids by GC/ECD

#### A.1.15.1 Scope and Application

Method 8081A is used to determine the concentrations of various organochlorine pesticides in extracts from solid and liquid matrices. This method is applicable to groundwater, surface water, soils, sediments and industrial waste. Water samples are extracted at neutral pH with Methylene Chloride by method 3510C. Solid samples are extracted with acetone-hexane (1:1) using Method 3541. Samples are cleaned up using Method 3620B and Method 3640A. The extract is analyzed by injection into a temperature programmable gas chromatograph with a silica capillary column and electron capture detector. Identifications are obtained by analyzing a standard curve under identical conditions used for samples and comparing resultant GC retention times. Concentrations of the identified components are measured by relating the response produced for that compound to the standard curve response.

Water samples for semivolatile organic compounds are collected in a 1-liter narrow mouth glass bottle. Sample bottles must be cooled to 4°C after sample collection. Two to four bottles are required for each sample. Samples must be extracted within 7 days and the extracts then analyzed within 40 days.

Soil and sediment samples for semivolatile organic compounds are collected in 8 oz wide mouth glass sample bottles. Sample bottles must be cooled to 4°C after sample collection. Two to four bottles are required for each sample. Samples must be extracted within 14 days and the extracts then analyzed within 40 days.

#### A.1.15.2 Calibrations and Calculations

##### A.1.15.2.1 Calibration Curve

A minimum five-point calibration is performed for all single peak components. The calibration system uses traceable certified standards. The calibration is an external standard calibration with an "average of response factor linear curve fit" and should result in a percent relative standard deviation of less than 20% between calibration levels for each analyte. If linear regression is used to evaluate the calibration curve, a correlation coefficient  $r$  not lower than 0.990 (or coefficient of determination  $r^2$  not lower than 0.980) is required per compound. An alternate source standard, where available, is used to verify initial calibration of the measurement system.

##### A.1.15.2.2 Calibration Standards

The calibration curve consists of the calibration standards at the following concentrations: ug/ml

Name	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
$\alpha$ -BHC	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
$\beta$ -BHC	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
$\delta$ -BHC	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

Name	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
Lindane	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
Chlordane	0.10	0.50	0.80	1.0	1.2	1.5	2.0	
Gamma-Chlordane	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
alpha-Chlordane	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
p,p'=-DDD	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160
p,p'=-DDE	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160
p,p'=-DDT	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160
Dieldrin	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160
Endosulfan I	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
Endosulfan II	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160
Endosulfan Sulfate	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160
Endrin	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160
Endrin Aldehyde	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160
Heptachlor	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
Heptachlor Epoxide	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
Toxaphene	0.10	0.50	0.80	1.0	1.2	1.5	2.0	
Chlorpyrifos	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160
Hexachlorobenzene	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
Methoxychlor	0.020	0.040	0.20	0.32	0.40	0.48	0.60	0.80
Mirex	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160
Aldrin	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
SS:TCMX	0.002	0.004	0.020	0.032	0.040	0.048	0.060	0.080
SS:DCB	0.004	0.008	0.040	0.064	0.080	0.096	0.120	0.160

## A.1.15.2.3 Record Keeping

Documentation of an instrument calibration is reviewed for adherence to quality criteria and archived with the project records.

## A.1.15.2.4 Daily Calibration Verification and Continuing Calibration

A continuing calibration standard ensures the instruments target compound retention times and quantitation parameters meet method performance criteria. For any 12-hour analysis period, prior to sample analysis, a one-point daily continuing calibration verification is performed. Continuing calibration standards are analyzed during the analysis period to verify that instrument calibration accuracy does not exceed 15% of the initial calibration. When the acceptance criteria for the continuing calibration verification are exceeded high, i.e., high bias, and there are associated samples that are non-detects, then those non-detects may be reported. When the acceptance criteria for the continuing calibration verification are exceeded low, i.e., low bias, those sample results may be reported if they exceed a maximum regulatory limit/decision level. Otherwise, the samples affected by the unacceptable calibration verification shall be reanalyzed after a new calibration curve has been established, evaluated and accepted.

## A.1.15.2.5 Evaluation of the Linearity of the Initial Calibration

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

To evaluate the linearity of the initial calibration, calculate the mean response factor ( $\overline{RF}$ ), the standard deviation (SD) and the relative standard deviation expressed as a percentage. If the RSD of the calibration or response factors is less than 20% over the calibration range, then linearity through the origin may be assumed, and the average calibration or response factor may be used to determine sample concentrations.

Equation A.1.15.1 
$$RF = \frac{\text{Peak area of the compound standard}}{\text{micrograms of the compound injected}}$$

Equation A.1.15.2 
$$\overline{RF} = \sum \frac{RF_i}{n}$$

Equation A.1.15.3 
$$RSD = \frac{SD}{\overline{RF}}$$

Equation A.1.15.4 
$$SD = \sqrt{\sum_{i=1}^n \frac{(RF_i - \overline{RF})^2}{n-1}}$$

Where:

$RF$  = Response Factor

$RF_i$  = Response Factor for compound at each calibration level

$n$  = Number of calibration standards

$\overline{RF}$  = Mean Response Factor

$SD$  = Standard Deviation

$RSD$  = Relative Standard Deviation

## A.1.15.2.6 Retention Time Windows

The width of the retention time window for each analyte, surrogate and major constituent in multi-component analytes is defined as 3 times the standard deviation of the mean absolute retention time established over a 72-hour period.

Equation A.1.15.5 
$$\overline{RT} = \sum \frac{RT}{n}$$

# Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

where:

$\overline{RT}$  = Mean retention time for target compound  
 $RT$  = Retention time for the target compound  
 $n$  = number of values

## A.1.15.2.7 Verification of Linear Calibrations

Calibration verification for linear calibrations involves the calculation of percent drift of the instrument response between the initial calibration and each subsequent analysis of the verification standard. The % drift may be no more than 15%.

$$\text{Equation A.1.15.6 } \% \text{ Drift} = \frac{\text{Calculated Concentration} - \text{Theoretical Concentration}}{\text{Theoretical Concentration}} \times 100$$

## A.1.15.2.8 Sample Concentration

$$\text{Equation A1.15.7 } \text{Concentration(water)} \text{ ug/L} = \frac{(A_s)(D)(V_T)}{(RF)V_s(V_i)}$$

where:

$A_s$  = Area of the peak for the analyte in the sample  
 $D$  = Dilution factor  
 $RF$  = Mean response factor (Area per ug)  
 $V_i$  = Volume of sample injected in microliters  
 $V_s$  = Volume of original sample in liters  
 $V_T$  = Total Volume of concentrated extract in microliters

## A.1.15.2.9 Sample Concentration

$$\text{Equation A.1.15.8 } \text{Concentration(soil)} \text{ mg/kg} = \frac{(A_s)(D)(V_T)}{(RF)W_s(V_i)}$$

where:

$A_s$  = Area of the peak for the analyte in the sample  
 $D$  = Dilution factor  
 $RF$  = Mean response factor (Area per ug)  
 $V_i$  = Volume of sample injected in microliters  
 $W_s$  = Weight of original sample in kilograms  
 $V_T$  = Total Volume of concentrated extract in microliters

## A.1.15.2.9.10 Alternate Sample Concentration Calculation using linear regression

# Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

The regression's slope and intercept terms for the linear equation is in the form:

Equation A.1.15.8  $y = a x + b$

y = Instrument response  
a = Slope of the line  
x = Concentration of Sample  
b = Intercept

To use the equation to calculate sample concentrations, the equation is rearranged:

$$x = \frac{y - b}{a}$$

Note: The equation above is valid under the condition that the volume of sample extract introduced into the GC all remains constant for all samples, QC samples and standards

**TableA.1.15.2.1 RLs for Method 8081A**

Parameter/Method	Analyte	Matrix (Water)		Matrix(Soil)	
		RL	Unit	RL	Unit
8081A Org-Cl Pesticides	a-BHC	0.05	ug/L	2.0	ug/kg
	b-BHC	0.06	ug/L	3.0	ug/kg
	d-BHC	0.15	ug/L	4.5	ug/kg
	Lindane	0.05	ug/L	1.0	ug/kg
	Chlordane	2.0	ug/L	50	ug/kg
	p,p'-DDD	0.10	ug/L	7.5	ug/kg
	p,p'-DDE	0.05	ug/L	3.0	ug/kg
	p,p'-DDT	0.06	ug/L	6.5	ug/kg
	Dieldrin	0.05	ug/L	2.0	ug/kg
	Endosulfan I	0.10	ug/L	5.0	ug/kg
	Endosulfan II	0.10	ug/L	7.5	ug/kg
	Endosulfan Sulfate	0.10	ug/L	8.0	ug/kg
	Endrin	0.10	ug/L	7.5	ug/kg
	Endrin Aldehyde	0.10	ug/L	3.5	ug/kg
	Heptachlor	0.05	ug/L	5.0	ug/kg
	Heptachlor Epoxide	0.05	ug/L	4.0	ug/kg
	Toxaphene	3.0	ug/L	130	ug/kg
	Chlorpyrifos	0.10	ug/L	5.0	ug/kg
	Hexachlorobenzene	0.05	ug/L	1.0	ug/kg
	Methoxychlor	0.20	ug/L	20	ug/kg
	Mirex	0.30	ug/L	3.5	ug/kg
	Aldrin	0.05	ug/L	3.5	ug/kg

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**TableA.1.15.2 Acceptance Criteria for Method EPA 8081A**

Method	Analyte	Accuracy Water (%R)	Precision Water (RPD)	Accuracy Soil (%R)	Precision Soil (RPD)
8081A	a-BHC	65-135	30	50-150	35
	b-BHC	60-140	30	50-150	35
	d-BHC	60-140	30	50-150	35
	Lindane	60-140	30	50-150	30
	Chlordane	60-140	30	50-150	30
	gamma-Chlordane	60-140	30	50-150	30
	alpha-Chlordane	60-140	30	50-150	30
	p,p'-DDD	60-140	30	50-150	35
	p,p'-DDE	60-140	30	50-150	30
	p,p'-DDT	60-140	30	50-150	30
	Dieldrin	60-140	30	50-150	30
	Endosulfan I	60-140	30	50-150	35
	Endosulfan II	60-140	30	50-150	35
	Endosulfan Sulfate	60-140	30	50-150	35
	Endrin	50-140	40	50-150	40
	Endrin Aldehyde	60-140	40	50-150	40
	Heptachlor	60-140	30	50-150	30
	Heptachlor Epoxide	60-140	30	50-150	30
	Toxaphene	60-140	30	50-150	35
	Chlorpyrifos	60-140	30	50-150	30
	Hexachlorobenzene	60-140	30	50-150	35
	Methoxychlor	60-140	35	50-150	40
	Mirex	60-140	30	50-150	35
	Aldrin	60-140	30	50-150	30
	2,4,5,6-TCMX	60-140	NA	50-150	NA
	Decachlorobiphenyl	60-140	NA	50-150	NA

**TableA.1.15.3 Summary of Calibration and QC Procedures for Method EPA 8081A**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
8081A	Organochlorine pesticides	Minimum five- point initial calibration for all analytes	Initial calibration prior to sample analysis	RSD for all analytes $\leq 20\%$ linear-least squares regression $r \geq 0.995$	Correct problem then repeat initial calibration	
		Second-source calibration verification (ICV)	Once per five- point initial calibration	All analytes within $\pm 20\%$ of expected value	Correct problem then repeat initial calibration	
		Retention time window calculated for each analyte	Each initial calibration and calibration verifications	$\pm 3$ times standard deviation for each analyte retention time from 72-hour study	Correct problem and verify retention times then reanalyze all samples analyzed since the last retention time check.	

# Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

**TableA.1.15.3 Summary of Calibration and QC Procedures for Method EPA 8081A**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
8081A	Organochlorine pesticides	Calibration verification (CCC)	After every 10 samples and at the end of the analysis sequence	All analytes within $\pm 15\%$ of expected value	Correct problem then repeat initial calibration verification and reanalyze all samples since last successful calibration verification	
		Breakdown check (Endrin and DDT)	Daily prior to analysis of samples	Degradation $\leq 15\%$	Repeat breakdown check. If it still fails correct problem.	
		Demonstrate ability to generate acceptable accuracy and precision using four replicate analyzes of a QC check sample	Once per analyst	QC acceptance criteria TableA.1.15.2.	Recalculate results; locate and fix problem with system and then rerun demonstration for those analytes that did not meet criteria	
		Method Blank	One per analytical batch of 20 samples or less	No analytes detected $> RL$	Correct problem then reprep and analyze method blank and all samples processed with the contaminated blank	If re-extract not possible flag with "B"
		LCS/LCSD for all analytes	One LCS/LCSD per analytical batch of 20 or less samples	QC acceptance criteria TableA.1.15.2	Correct problem then reanalyze the LCS/LCSD and all samples in the affected batch	If unable to re-analyze, flag with a "J"
		Surrogate spike	Every sample, spiked sample, standard, and method blank	QC acceptance criteria TableA.1.15.2	Flag Report	
		MS/MSD	One MS/MSD per every 20 samples per matrix	QC acceptance criteria TableA.1.15.2	Flag Report	
		Second-column confirmation	100% for all positive results	If used for quantitation same as for initial or primary column analysis	Same as for initial or primary column analysis	
		MDL study	Once per year	Detection limits established shall be $<$ the RLs in TableA.1.15.2.2	None	
		Results reported between MDL and RL	none	None	none	



## Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

### A.1.16 EPA Method 8082 - PCBs in Water and Solids by GC/ECD

#### A.1.16.1 Scope and Application

Method 8082 is used to determine the concentrations of Polychlorinated Biphenyls (PCBs) as Aroclors in extracts from solid and aqueous matrices. The names PCBs and Aroclor are used interchangeably by this laboratory. This method is applicable to groundwater, surface water, soils, sediments and industrial waste. Water samples are extracted at neutral pH with Methylene Chloride by Method 3510C. Solid samples are extracted with acetone-hexane (1:1) using Method 3541. Samples may be cleaned up using Method 3665A when pesticides are not requested for the sample. The extract is analyzed by injection into a temperature programmable gas chromatograph with a fused silica capillary column and electron capture detector. Identifications are obtained by analyzing a standard curve of PCB 1016/1260 mixture under identical conditions used for samples and comparing resultant GC retention times. Concentrations of the identified Aroclors are measured by relating the Aroclors' response to the standard curve response.

Water samples for semivolatile organic compounds are collected in a 1-liter narrow mouth glass bottle. Sample bottles must be cooled to 4<sup>0</sup>C after sample collection. Two to four bottles are required for each sample. Samples must be extracted within 7 days and the extracts then analyzed within 40 days.

Soil, sediment and waste samples for semivolatile organic compounds are collected in 8 oz wide mouth glass sample bottles. Sample bottles must be cooled to 4<sup>0</sup>C after sample collection. Two to four bottles are required for each sample. Samples must be extracted within 14 days and the extracts then analyzed within 40 days.

#### A.1.16.2 Calibrations and Calculations

##### A.1.16.2.1 Calibration Curve

A five-point calibration is performed for a PCB 1016/1260 mixture. One standard equivalent to the mid-point of the curve is analyzed for ID purposes for all PCBs reported. If a PCB other than PCB 1016 or PCB 1260 is found then a minimum five-point calibration curve will be run for that PCB. The calibration system uses traceable certified standards. The calibration is an external standard calibration with an "average of response factor linear curve fit" and should result in a percent relative standard deviation of less than 20% between calibration levels for each analyte. An alternate source standard, where available, is used to verify initial calibration of the measurement system.

##### A.1.16.2.2 Calibration Standards

The calibration curve consists of the calibration standards at the following concentrations in ug/ml:

Name	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
Aroclor 1016	0.05	0.1	0.5	0.8	1.0	1.2	1.5	2.0

## Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

Name	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8
Aroclor 1260	0.05	0.1	0.5	0.8	1.0	1.2	1.5	2.0
SS: TCMX	0.002	0.004	0.02	0.032	0.04	0.048	0.06	0.08
SS: DCD	0.004	0.008	0.004	0.064	0.08	0.096	0.12	0.16

### A.1.16.2.3 Record Keeping

Documentation of an instrument calibration is reviewed for adherence to quality criteria and archived with the project records.

### A.1.16.2.4 Daily Calibration Verification and Continuing Calibration

A continuing calibration standard ensures the instruments target compound retention times and quantitation parameters meet method performance criteria. For any 12 hour analysis period, prior to sample analysis, a one point daily continuing calibration verification is performed. Continuing calibration standards are analyzed during the analysis period to verify that instrument calibration accuracy does not exceed 15% of the initial calibration. When the acceptance criteria for the continuing calibration verification are exceeded high, i.e., high bias, and there are associated samples that are non-detects, then those non-detects may be reported. When the acceptance criteria for the continuing calibration verification are exceeded low, i.e., low bias, those sample results may be reported if they exceed a maximum regulatory limit/decision level. Otherwise, the samples affected by the unacceptable calibration verification shall be reanalyzed after a new calibration curve has been established, evaluated and accepted.

### A.1.16.2.5 Evaluation of the Linearity of the Initial Calibration

To evaluate the linearity of the initial calibration, calculate the mean response factor ( $\overline{RF}$ ), the standard deviation (SD) and the relative standard deviation expressed as a percentage. If the RSD of the calibration or response factors is less than 20% over the calibration range, then linearity through the origin may be assumed, and the average calibration or response factor may be used to determine sample concentrations.

$$\text{Equation A.1.16.1} \quad RF = \frac{\text{Peak area of the compound standard}}{\text{micrograms of the compound injected}}$$

$$\text{Equation A.1.16.2} \quad \overline{RF} = \sum \frac{RF_i}{n}$$

$$\text{Equation A.1.16.3} \quad RSD = \frac{SD}{\overline{CF}}$$

$$\text{Equation A.1.16.4} \quad SD = \sqrt{\frac{\sum_{i=1}^n (RF_i - \overline{RF})^2}{n-1}}$$

## Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

Where:

$RF$  = Response Factor  
 $RF_i$  = Response Factor for compound at each calibration level  
 $n$  = Number of calibration standards  
 $\overline{RF}$  = Mean Response Factor  
 $SD$  = Standard Deviation  
 $RSD$  = Relative Standard Deviation

The instrument responses versus the concentrations of the standards for the 5 points is done using the instrument data analysis software and the regression will produce the slope and intercept terms for a linear equation. The regression calculation will generate a correlation coefficient ( $r$ ) that is a measure of "goodness of fit" of the regression line to the data. A value of 1.0 is a perfect fit., 8082 requires a fit of 0.990 or better. 8082 requires a fit of 0.990 or better for  $r$  (0.980 or better for  $r^2$ )

### A.1.16.2.6 Retention Time Windows

The width of the retention time window for each analyte, surrogate and major constituent in multi-component analytes is defined as 3 times the standard deviation of the mean absolute retention time established over a 72 hour period.

Equation A.1.16.5 
$$\overline{RT} = \sum \frac{RT}{n}$$

where:

$\overline{RT}$  = Mean retention time for target compound  
 $RT$  = Retention time for the target compound  
 $n$  = number of values

### A.1.16.2.7 Verification of Linear Calibrations

Calibration verification for linear calibrations involves the calculation of percent drift of the instrument response between the initial calibration and each subsequent analysis of the verification standard. The % drift may be no more than 15%.

Equation A.1.16.6 
$$\% \text{ Drift} = \frac{\text{Calculated Concentration} - \text{Theoretical Concentration}}{\text{Theoretical Concentration}} \times 100$$

### A.1.16.2.8 Sample Concentration

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

$$\text{Equation A.1.16.7 } \text{Concentration(water)} \text{ } \mu\text{g/L} = \frac{(A_s)(D)(V_T)}{(RF)V_s(V_i)}$$

where:

- $A_s$  = Area of the peak for the analyte in the sample
- $D$  = Dilution factor
- $RF$  = Mean response factor (Area per  $\mu\text{g}$ )
- $V_i$  = Volume of sample injected in microliters
- $V_s$  = Volume of original sample in liters
- $V_T$  = Total Volume of concentrated extract in microliters

## A.1.16.2.9 Sample Concentration

$$\text{Equation A.1.16.8 } \text{Concentration(soil)} \text{ } \text{mg/kg} = \frac{(A_s)(D)(V_T)}{(RF)W_s(V_i)}$$

where:

- $A_s$  = Area of the peak for the analyte in the sample
- $D$  = Dilution factor
- $RF$  = Mean response factor (Area per  $\mu\text{g}$ )
- $V_i$  = Volume of sample injected in microliters
- $W_s$  = Weight of original sample in kilograms
- $V_T$  = Total Volume of concentrated extract in microliters

$$\text{Equation A.1.16.9 } \text{Concentration(waste)} \text{ } \text{mg/kg} = \frac{(A_s)(D)(V_T)}{(RF)W_s(V_i)}$$

where:

- $A_s$  = Area of the peak for the analyte in the sample
- $D$  = Dilution factor
- $RF$  = Mean response factor (Area per  $\mu\text{g}$ )
- $V_i$  = Volume of sample injected in microliters
- $W_s$  = Weight of original sample in kilograms
- $V_T$  = Total Volume of concentrated extract in microliters

# Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

## A.1.16.2.9.10 Alternate Sample Concentration Calculation using linear regression

The regression's slope and intercept terms for the linear equation is in the form:

Equation A.1.16.10  $y = a x + b$

y = Instrument response

a = Slope of the line

x = Concentration of Sample

b = Intercept

To use the equation to calculate sample concentrations, the equation is rearranged:

$$x = \frac{y - b}{a}$$

Note: The equation above is valid under the condition that the volume of sample extract introduced into the GC all remain constant for all samples, QC samples and standards.

**Table A.1.16.1 RLs for Method 8082**

Parameter/Method	Analyte	Matrix (Water)		Matrix (Soil)	
		RL	Unit	RL	Unit
8082	Aroclor 1016	1.0	ug/L	33	ug/kg
	Aroclor 1221	1.0	ug/L	33	ug/kg
	Aroclor 1232	1.0	ug/L	33	ug/kg
	Aroclor 1242	1.0	ug/L	33	ug/kg
	Aroclor 1248	1.0	ug/L	33	ug/kg
	Aroclor 1254	1.0	ug/L	33	ug/kg
	Aroclor 1260	1.0	ug/L	33	ug/kg
	Aroclor 1262	1.0	ug/L	33	ug/kg

**Georgia Department of Natural Resources**

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

**Table A.1.16.2.2 RLs for Method 8082 Waste**

Parameter/Method	Analyte			Matrix(waste)	
				RL	Unit
8082	Aroclor 1016			1.65	mg/kg
	Aroclor 1221			1.65	mg/kg
	Aroclor 1232			1.65	mg/kg
	Aroclor 1242			1.65	mg/kg
	Aroclor 1248			1.65	mg/kg
	Aroclor 1254			1.65	mg/kg
	Aroclor 1260			1.65	mg/kg
	Aroclor 1262			1.65	mg/kg

**TableA.1.16.3 Acceptance Criteria for Method EPA 8082**

Method	Analyte	Accuracy Water (% R)	Precision (RPD)	Accuracy Soil (% R)	Precision (RPD)
8082	Aroclor 1016	60-140	30	50-150	30
	Aroclor 1260	60-140	30	50-150	30
	SS: 2,4,5,6-Tetrachloro-m-xylene	60-140	N/A	50-150	N/A
	SS: Decachlorobiphenyl	60-140	N/A	50-150	N/A

**Table A.1.16.4 Acceptance Criteria for Method EPA 8082 Waste**

Method	Analyte			Accuracy Waste (% R)	Precision (RPD)
8082	Aroclor 1016			50-150	30
	Aroclor 1260			50-150	30
	SS: 2,4,5,6-Tetrachloro-m-xylene			50-150	N/A
	SS: Decachlorobiphenyl			50-150	N/A

**TableA.1.16.5 Summary of Calibration and QC Procedures for Method EPA 8082**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
8082	Polychlorinated Biphenyls	Minimum five point initial calibration for 1016 & 1260, one mid- point for all others	Initial calibration prior to sample analysis	RSD for all analytes $\leq$ 20% linear-least squares regression $r \geq$ 0.990	Correct problem then repeat initial calibration	

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.1.16.5 Summary of Calibration and QC Procedures for Method EPA 8082**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
8082	Polychlorinated Biphenyls	Second-source calibration verification for PCB 1016/1260 mix (ICV)	Once per five-point initial calibration	Mix within $\pm 20\%$ of expected value	Correct problem then repeat initial calibration	
		Retention time window calculated for PCB 1016/1260 mix	Each initial calibration	$\pm 3$ times standard deviation for each analyte retention time from 72-hour study	Correct problem and verify retention times then reanalyze all samples analyzed since the last retention time	
		Calibration verification for PCB 1016/1260 mix (CCC)	For every 12 hour shift and at the end of the analysis sequence	All analytes within $\pm 15\%$ of expected value	Correct problem then repeat initial calibration verification and reanalyze all samples since last successful calibration verification	
		Demonstrate ability to generate acceptable accuracy and precision using four replicate analyzes of a QC check sample	Once per analyst	QC acceptance criteria Table A.1.16.3 and Table A.1.16.4.	Recalculate results; locate and fix problem with system and then rerun demonstration for those analytes that did not meet criteria	
		Method Blank	One per analytical batch of 20 or less samples	No analytes detected $< RL$	Correct problem then reprep and analyze method blank and all samples processed with the contaminated blank	If unable to re-analyze, flag with a "B"
		LCS/LCSD (1016/1260 mix)	One LCS/LCSD per analytical batch of 20 or less samples	QC acceptance criteria Table A.1.16.3 and Table A.1.16.4.	Correct problem then reprep and analyze the LCS and all samples in the affected batch	If unable to re-analyze, flag with a "J"
		Surrogate spike	Every sample, spiked sample, standard, and method blank	QC acceptance criteria Table A.1.16.3 and Table A.1.16.4.	Correct problem then reextract and analyze sample	
		MS/MSD (1016/1260 mix)	One MS/MSD per every 20 samples per matrix	QC acceptance criteria Table A.1.16.3 and Table A.1.16.4.	Flag QC sample report	
		MDL study	Once per year	Detection limits established shall be $<$ the RLs in Table A.1.16.1 and Table A.1.16.2	None	
		Results reported between MDL and RL	none	None	none	

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**TableA.1.16.5 Summary of Calibration and QC Procedures for Method EPA 8082**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
8082	Polychlorinated Biphenyls	Second column confirmation	100 % for all positive results	If used for quantitation same as for initial or primary column analysis	Same as for initial or primary column analysis	



## Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

### A.0 Method Summary, Calibration, Calculations, and Data Quality Objectives for the Metals Laboratory

#### A.2.2 EPA Method 6020 - Metals in Water by Plasma Mass Spectroscopy

##### A.2.2.1 Scope and Application

This method covers the determination of metals in air filters, and drinking, surface, and saline waters by ICP mass spectroscopy. An aliquot of the sample is accurately measured and refluxed with Hydrochloric and Nitric acids to solubilize analytes. The sample is allowed to settle overnight prior to analysis. For direct analysis of drinking water samples, Nitric acid is added and the sample is allowed to sit overnight. Prior to analysis, pH and turbidity are measured.

##### A.2.2.2 ICP Calibration and Calculations

###### A.2.2.2.1 Calibration Curve

The ICP is calibrated daily. The calibration standard concentrations are: 1.0, 5.0, 10.0, 25.0, and 50.0 ug/L aqueous Al, As, Ba, Be, Cd, Co, Cr, Cu, Mo, Ni, Pb, Sb, Sn, Tl, V, and Zn; 0.2, 1.0, 2.0, 5.0, and 10.0 ug/L aqueous for Ag, and 5.0, 25.0, 50.0, 120.0, and 250 ug/L aqueous for Se. Minimum acceptable correlation coefficient is 0.995 using linear regression. An ICV and ICB are analyzed immediately after the calibration standards. The ICV value must be within +/-5% of true value. The ICB value must be less than the analyte's reporting limit. An alternate source standard, where available, is used to verify initial calibration of the measurement system. A CCC and a CCB are analyzed after every ten samples. The initial CCC value must be within +/- 5% of true value, subsequent CCC values must be within +/-10% of true value. All CCB values must be less than the analyte's reporting limit.

###### A.2.2.2.2 Calculation

A standard curve is obtained by plotting the absorbance of standards against analyte concentration. The sample concentrations are computed directly from the standard curve and are reported as ug/L for aqueous samples. If the sample has a dilution factor, the sample concentration is calculated by multiplying the concentration from the calibration curve by the dilution factor; the reporting limit for the diluted analyte is also multiplied by the dilution factor.

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.2.2.1 RLs for Method 6020**

Parameter/Method	Analyte	Matrix (Water)		Matrix (Filter)	
		RL	Unit	RL	Units
6020	Antimony	5.0	ug/L	5	ug/F
	Arsenic	5.0	ug/L	6	ug/F
	Barium	1.0	ug/L	1	ug/F
	Beryllium	1.0	ug/L	1.2	ug/F
	Cadmium	0.7	ug/L	1.2	ug/F
	Chromium	5.0	ug/L	6	ug/F
	Cobalt	5.0	ug/L	6	ug/F
	Copper	5.0	ug/L	5	ug/F
	Lead	1.0	ug/L	1.2	ug/F
	Molybdenum	5.0	ug/L	5	ug/F
	Nickel	10	ug/L	6	ug/F
	Selenium	5.0	ug/L	6	ug/F
	Silver	5.0	ug/L	1	ug/F
	Thallium	1.0	ug/L	5	ug/F
	Tin	10	ug/L	1	ug/F
	Vanadium	1.0	ug/L	10	ug/F
	Zinc	1.9	ug/L	1.2	ug/F

**Georgia Department of Natural Resources**

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

**Table A.2.2.2 Acceptance Criteria for Method 6020**

Method	Analyte	Accuracy Water (%R)	Precision Water (RPD)	Accuracy Filter (%R)	Precision Filter (RPD)
6020	Antimony	85-115	≤15	85-115	≤15
	Arsenic	85-115	≤15	85-115	≤15
	Barium	85-115	≤15	85-115	≤15
	Beryllium	85-115	≤15	85-115	≤15
	Cadmium	85-115	≤15	85-115	≤15
	Chromium	85-115	≤15	85-115	≤15
	Cobalt	85-115	≤15	85-115	≤15
	Copper	85-115	≤15	85-115	≤15
	Lead	85-115	≤15	85-115	≤15
	Molybdenum	85-115	≤15	85-115	≤15
	Nickel	85-115	≤15	85-115	≤15
	Selenium	85-115	≤15	85-115	≤15
	Silver	85-115	≤15	85-115	≤15
	Thallium	85-115	≤15	85-115	≤15
	Tin	85-115	≤15	85-115	≤15
	Vanadium	85-115	≤15	85-115	≤15
	Zinc	85-115	≤15	85-115	≤15

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.2.2.3 Summary of Calibration and QC Procedures for Method  
EPA 6020**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance criteria	Corrective Action	Flagging Criteria
6020	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc	Analyst Initial Demonstration.	Once per analyst	Average of 4 LCS recoveries between 85-115%. Recovery of unknown sample within established QC limits.	Recalculate results, correct problem, then rerun the initial demonstration for those analytes that did not meet criteria.	
		MDL study.	Once every 12 months.	All analyte MDLs must be < reporting limits.	Correct the problem.	
		Analysis of PE sample.	Once every 12 months	All analyte results acceptable per the auditing agency.	Correct the problem	
		Initial Calibration. Minimum of 2 standards.	Daily initial calibration prior to sample analysis.	Correlation coefficient $\geq$ 0.995	Correct the problem and recalibrate	
		Interference Check Sample (ICS).	Daily after calibration.	Spiked element recoveries between 80-120% recovery, the absolute value of the other element concentrations must be below the reporting level.	Correct the problem, calculate new interelement correction factors and recalibrate.	
		MDL Check	Daily after calibration.	All analyte recoveries between 50-150%.	Correct the problem and recalibrate.	
		IDL Calculation	Daily after calibration.	All analyte IDLs <MDL.	Correct the problem, clean the torch, recalibrate.	
		Initial Calibration Verification (ICV)	Daily after calibration.	All analyte recoveries within 10% of true value.	Correct the problem and recalibrate.	
		Continuing Calibration Blank (CCB).	Daily after calibration, after every 10 samples, and at end of analysis sequence.	All analyte concentrations must be below the analyte reporting limit.	Rerun once, if still out of control, correct the problem, recalibrate, and reanalyze all samples since the last acceptable CCB.	

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.2.2.3 Summary of Calibration and QC Procedures for Method  
EPA 6020**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance criteria	Corrective Action	Flagging Criteria
6020	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc	Continuing Calibration Check (CCC).	Daily after calibration, after every 10 samples, and at end of analysis sequence.	All analyte recoveries between 90-110%	Rerun once, if still out of control, correct the problem, recalibrate, and reanalyze all samples since the last acceptable CCC.	
		Laboratory Control Sample (LCS).	Once per batch.	All analyte recoveries between 85-115%.	Correct the problem, redigest batch if sample amounts permit, and reanalyze all samples in the batch.	If insufficient sample for redigestion, flag with "J".
		Laboratory Control Sample Duplicate (LCSD).	Once per batch.	Relative Percent Difference $\leq$ 15%	Correct the problem, redigest batch if sample amounts permit, and reanalyze all samples in the batch.	If insufficient sample for redigestion, flag with "J".
		Matrix Blank	Once per batch.	All analyte concentrations must be less than the reporting limit.	Comment report if reanalysis has contamination.	Flag data with "B"
		Matrix Spike	Every 10 samples.	All analyte recoveries between 75-125%.	If recovery exceeds QC limits but CCC, CCB, IPC, and LCSD are acceptable, matrix effect is suspected.	Comment report.
		Matrix Spike Duplicate.	Every 10 samples.	Relative Standard Precision < 15%.		If RPD > 15 inform data user data suspect due to matrix effect.
		Dilution Test: dilute one matrix spike per batch fivefold with matrix blank.	Once per batch	Original and diluted results must be within 10 RPD of each other.	If RPD > 10 matrix interference must be suspected.	Comment data about suspected matrix interference.

## A.2.6 EPA Method 6010B - Metals by Plasma Emission Spectroscopy

### A.2.6.1 Scope and Application

This method covers the determination of metals in ground water, aqueous matrices, TCLP and EP extracts, industrial and organic wastes, soils, sludges, sediments and other solid wastes by ICP optical spectroscopy. An aliquot of the sample is accurately measured and refluxed with Hydrochloric and Nitric acids to solubilize analytes. Samples analyzed by this method must first be prepared by one of the following methods: SW846-2010A, SW846-2015, SW846-3050B, SW846-3051. The sample is centrifuged or allowed to settle overnight prior to analysis.

Water samples and liquid waste samples for metal analysis are collected in a 500 ml narrow mouth plastic (HDPE) bottle. Samples are preserved with sufficient HNO<sub>3</sub> to lower the pH below 2. One to two bottles are required for each sample. Samples must be analyzed within 180 days.

Soil and sediment samples for metal analysis are collected in a 500 ml wide mouth plastic (HDPE) bottle. Sample bottles must be cooled to 4°C after sample collection. Samples must be analyzed within 180 days.

### A.2.6.2 ICP Calibration and Calculations

#### A.2.6.2.1 Calibration Curve

The ICP is calibrated daily. Two standards are used to standardize the ICP: a blank and a high standard. The calibration standard concentrations are: 10. mg/Kg (solids or wastes) or 10. mg/L (extracts) for Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Sn, Sr, Ti, Tl, V, Y, Zn, and Zr; 2.0 mg/Kg (solids or wastes) or 2.0 mg/L (extracts) for Ag and Au, and 50 mg/Kg (solids or wastes) or 50 mg/L (extracts) for Se. Minimum acceptable correlation coefficient is 0.995 using linear regression. An ICV and ICB are analyzed immediately after the calibration standards. The ICV value must be within +/-10% of true value. The ICB value must be less than the analyte's reporting limit. An alternate source standard, where available, is used to verify initial calibration of the measurement system. A CCC and a CCB are analyzed after every ten samples. All CCC values must be within +/- 10% of true value. All CCB values must be less than the analyte's reporting limit.

#### A.2.6.2.2 Calculation

A standard curve is obtained by plotting the absorbance of standards against analyte concentration. The sample concentrations for extracts or aqueous matrices are computed directly from the standard curve and are reported as mg/L. The sample concentrations for solid matrices are computed by multiplying the sample concentration obtained from the calibration curve by the dilution factor and are reported as mg/Kg.

**Georgia Department of Natural Resources**

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

**Table A.2.6.1 RLs for EPA Method 6010B**

Method	Analyte	Matrix (Aqueous and Extracts)		Matrix (Soils and other Solids)	
		RL	Unit	RL	Unit
6010B	Aluminum	0.06	mg/L	6.0	mg/Kg
	Antimony	0.12	mg/L	12.0	mg/Kg
	Arsenic	0.08	mg/L	8.0	mg/Kg
	Barium	0.01	mg/L	1.0	mg/Kg
	Beryllium	0.01	mg/L	1.0	mg/Kg
	Bismuth	0.09	mg/L	9.0	mg/Kg
	Cadmium	0.01	mg/L	1.0	mg/Kg
	Calcium	1.0	mg/L	100.0	mg/Kg
	Chromium	0.02	mg/L	2.0	mg/Kg
	Cobalt	0.02	mg/L	2.0	mg/Kg
	Copper	0.04	mg/L	4.0	mg/Kg
	Iron	0.06	mg/L	6.0	mg/Kg
	Lead	0.09	mg/L	9.0	mg/Kg
	Magnesium	1.0	mg/L	100.0	mg/Kg
	Manganese	0.01	mg/L	1.0	mg/Kg
	Molybdenum	0.04	mg/L	4.0	mg/Kg
	Nickel	0.06	mg/L	6.0	mg/Kg
	Potassium	5.0	mg/L	500.0	mg/Kg
	Selenium	0.2	mg/L	20.0	mg/Kg
	Silver	0.03	mg/L	3.0	mg/Kg
	Strontium	0.01	mg/L	1.0	mg/Kg
	Thallium	0.20	mg/L	20.0	mg/Kg
	Titanium	0.01	mg/L	1.0	mg/Kg
	Vanadium	0.01	mg/L	1.0	mg/Kg
	Zinc	0.02	mg/L	2.0	mg/Kg

# Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

**Table A.2.6.2 Acceptance Criteria for EPA Method 6010B**

Method	Analyte	Accuracy (Aqueous and Extracts) (%R)	Precision (Aqueous and Extracts) (%RPD)	Accuracy (Soil and other Solids) (%R)	Precision (Soil and other Solids) (%RPD)
6010B	Aluminum	85-115	15	85-115	15
	Antimony	85-115	15	85-115	15
	Arsenic	85-115	15	85-115	15
	Barium	85-115	15	85-115	15
	Beryllium	85-115	15	85-115	15
	Bismuth	85-115	15	85-115	15
	Cadmium	85-115	15	85-115	15
	Calcium	85-115	15	85-115	15
	Chromium	85-115	15	85-115	15
	Cobalt	85-115	15	85-115	15
	Copper	85-115	15	85-115	15
	Gold	85-115	15	85-115	15
	Iron	85-115	15	85-115	15
	Lead	85-115	15	85-115	15
	Magnesium	85-115	15	85-115	15
	Manganese	85-115	15	85-115	15
	Molybdenum	85-115	15	85-115	15
	Nickel	85-115	15	85-115	15
	Potassium	85-115	15	85-115	15
	Selenium	85-115	15	85-115	15
	Silver	85-115	15	85-115	15
	Sodium	85-115	15	85-115	15
	Strontium	85-115	15	85-115	15
	Thallium	85-115	15	85-115	15
	Tin	85-115	15	85-115	15
	Titanium	85-115	15	85-115	15
	Vanadium	85-115	15	85-115	15
	Yttrium	85-115	15	85-115	15
	Zinc	85-115	15	85-115	15
	Zirconium	85-115	15	85-115	15



# Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

**Table A.2.6.3 Summary of Calibration and QC Procedures for EPA Method 6010B**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance criteria	Corrective Action	Flagging Criteria
6010B	Aluminum, Antimony, Arsenic, Barium, Beryllium, Bismuth, Cadmium, Calcium, Chromium, Cobalt, Copper, Gold, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Yttrium, Zinc, Zirconium	Analyst Initial Demonstration.	Once per analyst	Average of 4 LCS recoveries between 85-115%. Recovery of unknown sample within established QC limits	Recalculate results, correct problem, then rerun the initial demonstration for those analytes that did not meet criteria.	
		MDL study.	Once every 12 months.	All analyte MDLs must be < reporting limits.	Correct the problem.	
		Analysis of PE sample.	Once every 12 months	All analyte results acceptable per the auditing agency.	Correct the problem	
		Initial Calibration. Minimum of 2 standards.	Daily initial calibration prior to sample analysis.	Correlation coefficient $\geq 0.995$	Correct the problem and recalibrate	
		Interference Check Sample (ICS).	Daily after calibration.	Spiked element recoveries between 80-120% recovery, the absolute value of the other element concentrations must be below the reporting level.	Correct the problem, calculate new interelement correction factors and recalibrate.	
		MDL Check	Daily after calibration.	All analyte recoveries between 50-150%.	Correct the problem and recalibrate.	
		IDL Calculation	Daily after calibration.	All analyte IDLs < reporting limit.	Correct the problem, clean the torch, recalibrate.	
		Initial Calibration Verification (ICV)	Daily after calibration.	All analyte recoveries within 10% of true value.	Correct the problem and recalibrate.	
		Continuing Calibration Blank (CCB).	Daily after calibration, after every 10 samples, and at end of analysis sequence.	All analyte concentrations must be below the analyte's reporting limit.	Correct the problem, recalibrate, and reanalyze all samples since the last acceptable CCB.	If unable to re-analyze, flag with a "B"

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.2.6.3 Summary of Calibration and QC Procedures for EPA Method 6010B**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance criteria	Corrective Action	Flagging Criteria
6010B	Aluminum, Antimony, Arsenic, Barium, Beryllium, Bismuth, Cadmium, Calcium, Chromium, Cobalt, Copper, Gold, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Yttrium, Zinc, Zirconium	Continuing Calibration Check (CCC).	Daily after calibration, after every 10 samples, and at end of analysis sequence.	All analyte recoveries between 90-110%.	Correct the problem, recalibrate, and reanalyze all samples since the last acceptable CCC.	
		Laboratory Control Sample (LCS).	Once per batch.	All analyte recoveries between 85-115%.	Correct the problem, redigest, and reanalyze all samples in the batch.	If unable to re-analyze, flag with a "J"
		Laboratory Control Sample Duplicate (LCSD).	Once per batch.	Relative Standard Precision $\leq 15\%$	Correct the problem, redigest, and reanalyze all samples in the batch.	If unable to re-analyze, flag with a "J"
		Matrix Blank	Once per batch.	All analyte concentrations must be less than the reporting limit.	Correct the problem, redigest, and reanalyze all samples in the batch.	If unable to re-analyze, flag with a "B"
		Matrix Spike	Every 10 samples.	All analyte recoveries within established QC limits or which ever is less.	If recovery outside QC limits but CCC, CCB, IPC, and LCS are acceptable, matrix effect is suspected.	
		Matrix Spike Duplicate.	Every 10 samples.	Relative Standard Precision < 25%.	None.	

# Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

## A.2.8 EPA Method 7470 - Mercury by cold vapor AA

### A.2.8.1 Scope and Application

This method covers the determination of Mercury in mobility extraction procedures, aqueous wastes and ground water by cold vapor atomic absorption spectroscopy. An aliquot of the sample is accurately measured and transferred to a clean 50 ml centrifuge tube. The sample is then digested in dilute Potassium Permanganate-Potassium Persulfate solutions and oxidized in a hot block. Mercury in the sample is then reduced by Stannous Chloride to elemental Mercury and analyzed by flow injection cold vapor atomic absorption.

Water samples and liquid waste samples for mercury analysis are collected in a 500 ml narrow mouth plastic (HDPE) bottle. Samples are preserved with sufficient HNO<sub>3</sub> to lower the pH below 2. One to two bottles are required for each sample. Mercury analysis must be performed within 28 days.

### A.2.8.2 Calibration and Calculations

#### A.2.8.2.1 Calibration Curve

The Mercury analyzer is calibrated daily. A multipoint calibration curve is used. The concentrations of the calibration standards are (in ug/L) for aqueous samples 0.0, 0.2, 0.5, 1.0, 2.0, 3.0, and 6.0. Minimum acceptable correlation coefficient is 0.995 using linear regression. An ICV and ICB are analyzed immediately after the calibration standards. The ICV value must be within +/-10% of true value. The ICB value must be less than the analyte's reporting limit.. A CCC and a CCB are analyzed after every ten samples. All CCC values must be within +/- 20% of true value. All CCB values must be less than the analyte's reporting limit.

#### A.2.8.2.2 Calculation

A standard curve is obtained by plotting the absorbance of standards against analyte concentration. The sample concentrations are computed directly from the standard curve and are reported as ug/L

Table A.2.8.1 RLs for Method 7470A

Parameter/Method	Analyte	Matrix Aqueous	
		RL	Unit
Mercury by Cold Vapor Atomic Absorption Spectrometry	Mercury	0.2	ug/l

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.2.8.2 Acceptance Criteria for Method 7470A**

Method	Analyte	Accuracy Aqueous (% R)	Precision Aqueous (RPD)
Mercury by Cold Vapor Atomic Absorption Spectrometry	Mercury	85-115	≤ 15

**Table A.2.8.3 Summary of Calibration and QC Procedures for Method 7470A**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
7470A	Mercury	Analyst Initial Demonstration.	Once per analyst	Average of 4 LCS recoveries between 85-115%. Recovery of unknown sample within established QC limits	Recalculate results, correct problem, then rerun the initial demonstration for those analytes that did not meet criteria.	
		MDL study.	Once every 12 months.	All analyte MDLs must be < reporting limits.	Correct the problem.	
		Analysis of PE sample.	Once every 12 months	All analyte results acceptable per the auditing agency.	Correct the problem	
		Initial Calibration. Minimum of 4 standards.	Daily initial calibration prior to sample analysis.	Correlation coefficient ≥ 0.995	Correct the problem and recalibrate	
		MDL Check	Daily after calibration.	All analyte recoveries between 50-150%.	Correct the problem and recalibrate.	
		IDL Calculation	Daily after calibration.	All analyte IDLs < MDL.	Correct the problem, clean the torch, recalibrate.	
		Initial Calibration Verification (ICV)	Daily after calibration.	All analyte recoveries within 10% of true value.	Correct the problem and recalibrate.	
		Continuing Calibration Blank (CCB).	Daily after calibration, after every 10 samples, and at end of analysis sequence.	All analyte concentrations must be below the analyte's reporting limit.	Correct the problem, recalibrate, and reanalyze all samples since the last acceptable CCB.	
		Continuing Calibration Check (CCC).	Daily after calibration, after every 10 samples, and at end of analysis sequence.	All analyte recoveries between 80-120%	Correct the problem, recalibrate, and reanalyze all samples since the last acceptable CCC.	

# Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

**Table A.2.8.3 Summary of Calibration and QC Procedures for Method 7470A**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
7470A	Mercury	Laboratory Control Sample (LCS).	Once per batch.	All analyte recoveries between 85-115%.	Correct the problem, redigest, and reanalyze all samples in the batch.	If unable to re-analyze, flag with a "J"
		Laboratory Control Sample Duplicate (LCSD).	Once per batch.	Relative Standard Precision $\leq 15\%$	Correct the problem, redigest, and reanalyze all samples in the batch.	If unable to re-analyze, flag with a "J"
		Matrix Blank	Once per batch.	All analyte concentrations must be less than the reporting limit.	Correct the problem, redigest, and reanalyze all samples in the batch.	If unable to re-analyze, flag with a "B"
		Matrix Spike	Every 10 samples.	All analyte recoveries within established QC limits	All samples must be analyzed by method of standard additions.	
		Matrix Spike Duplicate.	Every 10 samples.	Relative Standard Precision $< 15\%$ .	None.	

## Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

### A.2.9 EPA Method 7471 - Mercury by Cold Vapor AA Spectroscopy in Solids

#### A.2.9.1 Scope and Application

This method covers the determination of Mercury in soils, sediments, bottom deposits, and sludge-like materials by cold vapor atomic absorption spectroscopy. An aliquot of the sample is accurately measured and transferred to a 50 ml centrifuge tube. The sample is then digested in dilute Potassium Permanganate-aqua regia solutions and oxidized at 95°C. Mercury in the sample is then reduced by Stannous Chloride to elemental Mercury and analyzed by flow injection cold vapor atomic absorption.

Soil and sediment samples for metal analysis are collected in a 500 ml wide mouth plastic (HDPE) bottle. Sample bottles must be cooled to 4°C after sample collection. Samples must be analyzed within 180 days.

#### A.2.9.2 Calibration and Calculations

##### A.2.9.2.1 Calibration Curve

The Mercury analyzer is calibrated daily. A multipoint calibration curve is used. The concentrations of the calibration standards are (in mg/Kg): 0.0, 0.0002, 0.0005, 0.001, 0.002, 0.003, and 0.006. Minimum acceptable correlation coefficient is 0.995 using linear regression. An ICV and ICB are analyzed immediately after the calibration standards. The ICV value must be within 10% of the true value. The ICB value must be less than the analyte's reporting limit. An alternate source standard, where available, is used to verify initial calibration of the measurement system. A CCC and a CCB are analyzed after every ten samples. All CCC values must be within 20% of the true value. All CCB values must be less than the analyte's reporting limit.

##### A.2.9.2.2 Calculation

A standard curve is obtained by plotting the absorbance of standards against analyte concentration. The sample concentrations are computed by multiplying the sample concentration obtained from the calibration curve by the dilution factor and are reported as mg/Kg. The reporting limit for the diluted analyte is also multiplied by the dilution factor.

**Table A.2.9.1 RLs for Method 7471A**

Parameter/Method	Analyte	Matrix (solids)	
		RL	Unit
Mercury by Cold Vapor Atomic Absorption Spectrometry	Mercury	0.1	mg/Kg

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.2.9.2 Acceptance Criteria for Method 7471A**

Method	Analyte	Accuracy Solids (% R)	Precision Solids (RPD)
Mercury by Cold Vapor Atomic Absorption Spectrometry	Mercury	85-115%	15

**Table A.2.9.3 Summary of Calibration and QC Procedures for Methods 7471A**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance criteria	Corrective Action	Flagging Criteria
7471A	Mercury	Analyst Initial Demonstration.	Once per analyst	Average of 4 LCS recoveries between 85-115%. Recovery of unknown sample within established QC limits	Recalculate results, correct problem, then rerun the initial demonstration for those analytes that did not meet criteria.	
		MDL study.	Once every 12 months.	All analyte MDLs must be < reporting limits.	Correct the problem.	
		Analysis of PE sample.	Once every 12 months	All analyte results acceptable per the auditing agency.	Correct the problem	
		Initial Calibration. Minimum of 4 standards.	Daily initial calibration prior to sample analysis.	Correlation coefficient $\geq 0.995$	Correct the problem and recalibrate	
		MDL Check	Daily after calibration.	All analyte recoveries between 50-150%.	Correct the problem and recalibrate.	
		IDL Calculation	Daily after calibration.	All analyte IDLs < MDL.	Correct the problem, clean the torch, recalibrate.	
		Initial Calibration Verification (ICV)	Daily after calibration.	All analyte recoveries within 10% of true value.	Correct the problem and recalibrate.	
		Continuing Calibration Blank (CCB).	Daily after calibration, after every 10 samples, and at end of analysis sequence.	All analyte concentrations must be below the analyte's reporting limit.	Correct the problem, recalibrate, and reanalyze all samples since the last acceptable CCB.	
		Continuing Calibration Check (CCC).	Daily after calibration, after every 10 samples, and at end of analysis sequence.	All analyte recoveries between 80-120%.	Correct the problem, recalibrate, and reanalyze all samples since the last acceptable CCC.	
		Laboratory Control Sample (LCS).	Once per batch.	All analyte recoveries between 85-115%.	Correct the problem, redigest, and reanalyze all samples in the batch.	If unable to re-analyze, flag with a "J"
		Laboratory Control Sample Duplicate (LCSD).	Once per batch.	Relative Percent Difference $\leq 15\%$	Correct the problem, redigest, and reanalyze all samples in the batch.	If unable to re-analyze, flag with a "J"
		Matrix Blank	Once per batch.	All analyte concentrations must be less than the reporting limit.	Correct the problem, redigest, and reanalyze all samples in the batch.	If unable to re-analyze, flag with a "B"

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.2.9.3 Summary of Calibration and QC Procedures for Methods 7471A**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance criteria	Corrective Action	Flagging Criteria
7471A	Mercury	Matrix Spike	Every 10 samples.	All analyte recoveries within established QC limits	All samples in the batch must be analyzed by the method of standard additions.	
		Matrix Spike Duplicate.	Every 10 samples.	Relative Percent Difference < 15%.	None.	



# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

## A.3.10 EPA Method 335.4 - Total Cyanide by Semi-Automated Colorimetry

### A.3.10.1 Scope and Application

This method is applicable to the determination of cyanide in drinking and surface waters, domestic and industrial wastes. The cyanide as hydrocyanic acid(HCN), is released from cyanide complexes by means of distillation. Cyanides are converted to cyanogen chloride by reactions with chloramine-T, which subsequently reacts with pyridine and barbituric acid to give a red-colored complex. The color is read at 570 nm. The method is modified to use the MIDI-VAP Model MCV-103 midi-cyanide distillation system and the Traacs 800 auto analyzer.

Water samples for cyanide analysis are collected in a half gallon plastic narrow mouth bottles. Samples are preserved with sufficient NaOH to raise the pH above 12. Sample bottles must be cooled to 4°C after sample collection. Samples must be distilled and analyzed within 14 days.

### A.3.10.2 Calibration Verification

The Traacs 800 is calibrated daily. Seven standards are used to construct the calibration curve; 0 mg/L CN, 0.025 mg/L /CN, 0.050 mg/L CN, 0.10 mg/L CN, 0.20 mg/L CN, 0.30 mg/L CN, and 0.50 mg/L CN. An ICV and ICB are run daily to check the calibration curve. An alternate source standard, where available, is used to verify initial calibration of the measurement system. The ICV value must be within  $\pm 10\%$  of true value. The ICB value must be  $< 0.025$  mg/L. Minimum correlation coefficient is 0.995 using linear regression. When the acceptance criteria for the continuing calibration verification are exceeded high, i.e., high bias, and there are associated samples that are non-detects, then those non-detects may be reported. When the acceptance criteria for the continuing calibration verification are exceeded low, i.e., low bias, those sample results may be reported if they exceed a maximum regulatory limit/decision level. Otherwise, the samples affected by the unacceptable calibration verification shall be reanalyzed after a new calibration curve has been established, evaluated and accepted.

### A.3.10.3 Calculation

A standard curve is prepared by plotting the absorbance value of standards versus the corresponding cyanide concentration. The concentration value of the sample is obtained directly from the standard curve.

Table A.3.10.1 RLs for Method EPA 335.4

Parameter/Method	Analyte	Matrix (aqueous)	
		RL	Unit
EPA 335.2	Total Cyanide	0.025	mg/L

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.3.10.2 Acceptance Criteria for Method EPA 335.4**

Method	Analyte	Accuracy Water (%R)	Precision Water (RPD)
EPA 335.2	Total Cyanide	85-115	30

**Table A.3.10.3 Summary of Calibration and QC Procedures for Method  
EPA 335.4**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance criteria	Corrective Action	Flagging Criteria
EPA 335.2	Total Cyanide	Seven point calibration curve	Initial calibration verification once per batch	Correlation coefficient $\geq$ 0.995 linear regression	Correct problem then repeat initial calibration	
		Second source calibration verification	Once per batch	Cyanide concentration within $\pm 10\%$ of expected value	Correct problem then repeat initial calibration	
		Initial Demonstration: Demonstrate ability to generate acceptable accuracy and precision using four analysis of a QC check sample	Once per analyst	QC Acceptance Criteria Table and Initial Demonstration SOP	Recalculate results: locate and fix problem with system and then rerun demonstration for those analytes that did not meet criteria	
		Method Blank	One per batch	Total Cyanide value must be $<$ 0.025 mg/L	Correct problem then analyze method blank and all samples processed with the contaminated blank	If unable to re-analyze, flag with a "B"
		Laboratory Control Sample (LCS/LCSD)	One LCS/LCSD per analytical batch	QC Acceptance Criteria Table	Correct problem then reanalyze the LCS/LCSD and all samples in the affected batch	If unable to re-analyze, flag with a "J"
		MDL Study	Once per year	Detection limits established shall be $<$ the RL's in table	none	
		Matrix Spike (MS/MSD)	One MS/MSD per analytical batch	QC Acceptance Criteria Table	Evaluate out of control event, reanalyze or flag data	
		Continuing Calibration Check (CCC)	After every 10 samples	Concentration within $\pm 10\%$ of expected value	Correct problem then reanalyze all samples associated with out of control CCC.	
		Continuing Calibration Blank (CCB)	After every 10 samples	CN concentration must be $< 0.025$ mg/l	Correct problem then reanalyze all samples associated with out of control CCB.	

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

## A.3.21 EPA Method 9010B - Total Cyanide in Waste and Sediments

### A.3.21.1 Scope and Application

This method is a reflux-distillation procedure used to extract soluble cyanide salts and many insoluble cyanide complexes from wastes and leachates. It is based on the decomposition of nearly all cyanides by a reflux distillation procedure using a strong acid and a magnesium catalyst. Cyanide, in the form of hydrocyanic acid (HCN) is purged from the sample and captured into an alkaline scrubber solution. Method 9010 may be used as a reflux-distillation procedure for both total cyanide and cyanide amenable to chlorination.

### A.3.21.2 Calibration Verification

The Traacs 800 is calibrated daily. Seven standards are used to construct the calibration curve; 0.00 mg/L CN, 0.025 mg/L /CN, 0.050 mg/L CN, 0.10 mg/L CN, 0.20 mg/L CN, 0.30 mg/L CN, and 0.50 mg/L CN. An ICV and ICB are run daily to check the calibration curve. The ICV value must be within 10% of true value. The ICB value must be < 0.025 mg/L. An alternate source standard, where available, is used to verify initial calibration of the measurement system. Minimum correlation coefficient is 0.995 using linear regression.

### A.3.21.3 Calculation

A standard curve is prepared by plotting the absorbance value of standards versus the corresponding cyanide concentration. The concentration of cyanide in the sample digestates is determined by plotting sample absorbance's against the standard curve. Calculation of final result is accomplished using the following equation:

$$\text{CN mg/kg} = \frac{(X)(Y)}{(\text{kg})}$$

X = CN concentration in NaOH trapping solution

Y = Volume (in liters) of the trapping solution

kg = weight (in kg) of the sample (wet weight)

%S = percent solids in sediment, as a decimal fraction

Table A.3.21.1 RLs for Method SW486 9010B

Parameter/Method	Analyte	Matrix (Waste)	
		RL	Unit
SW486 9010B	Total Cyanide in Waste and Sediments	6.25	mg/kg wet

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.3.21.2 Acceptance Criteria for Method SW486 9010B**

Method	Analyte	Accuracy Waste (%R)	Precision Waste (RPD)
SW486 9010B	Total Cyanide in Waste and Sediments	85-115	30

**Table A.3.21.3 Summary of Calibration and QC Procedures for Method SW486 9010B**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance criteria	Corrective Action	Flagging Criteria
SW486 9010B	Total Cyanide in Waste and Sediments	Seven point calibration curve	Initial calibration verification once per batch	Correlation coefficient $\geq 0.995$ linear regression	Correct problem then repeat initial calibration	
		Second source calibration verification	Once per batch	Cyanide concentration within 10% of expected value	Correct problem then repeat initial calibration	
		Initial Demonstration: Demonstrate ability to generate acceptable accuracy and precision using four analysis of a QC check sample	Once per analyst	QC Acceptance Criteria Table and Initial Demonstration SOP	Recalculate results: locate and fix problem with system and then rerun demonstration for those analytes that did not meet criteria	
		Method Blank	One per batch	Total Cyanide value must be < RL in table	Correct problem then analyze method blank and all samples processed with the contaminated blank	If unable to re-analyze, flag with a "B"
		Laboratory Control Sample (LCS/LCSD) spiked with Ottawa sand or glass beads	One LCS/LCSD per analytical batch	QC Acceptance Criteria Table	Correct problem then reanalyze the LCS/LCSD and all samples in the affected batch	If unable to re-analyze, flag with a "J"
		Matrix Spike (MS/MSD)	One MS/MSD per analytical batch	QC Acceptance Criteria Table	Evaluate out of control event, reanalyze or flag data	
		Continuing Calibration Check (CCC)	After every 10 samples	Concentration within 10 % of expected value	Correct problem and reanalyze all samples associated with out of control CCC.	
		Continuing Calibration Blank (CCB)	After every 10 samples	CN concentration must be < RL in table	Correct problem and reanalyze all samples associated with out of control CCB.	

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

## A.7.3 EPA Method 8260B - Volatile Organics Analyses

### A.7.3.1 Scope and Application

Method 8260B is used to determine Volatile Organic Compounds in liquids, soils, and variety of multiphase samples. As part of the SW-846 requirement, the EPD Laboratory analyze volatile organic compounds from ambient samples for the 74 target compounds include the following:

Water samples for volatile organic compounds are collected in a 40 ml glass vial with 1:1 HCL as a preservative, samples are must be cooled to 4<sup>0</sup>C. Four sample bottles are required for each sample. Holding time for persevered samples is 14 days.

Soil and sediment samples for volatile organic compounds are collected in ENCOR samplers. The ENCOR samplers must be cooled to 4<sup>0</sup>C after sample collection. Four ENCORS are required for each sample, additionally; a single 4 oz wide mouth glass bottle is required for each sample. Samples must be preserved in the Laboratory within 48 hours and must then be analyzed with in 14 days.

Dichlorodifluoromethane  
Chloromethane  
Bromomethane  
Vinyl chloride  
Chloroethane  
Methylene chloride  
Trichlorofluoromethane  
Acetone  
Dibromomethane  
trans-1,2-Dichloroethene  
Iodomethane  
Carbon disulfide  
1,1-Dichloroethene  
1,1-Dichloroethane  
cis-1,2-Dichloroethene  
2,2-Dichloropropane  
Bromochloromethane  
Chloroform  
1,1-Dichloropropene  
1,2-Dichloroethane  
2-Butanone  
1,1,1-Trichloroethane  
Carbon Tetrachloride  
Vinyl acetate  
Bromodichloromethane  
1,2-Dichloropropane  
Trichloroethene  
Benzene  
cis-1,3-Dichloropropene  
2-Chloroethylvinyl ether

trans-1,3-Dichloropropene  
Dibromochloromethane  
1,1,2-Trichloroethane  
Bromoform  
Acrylonitrile  
trans-1,4-Dichloro-2-butene  
1,2,3-Trichloropropane  
4-Methyl-2-pentanone  
2-Hexanone  
Tetrachloroethene  
1,3-Dichloropropane  
1,1,2,2-Tetrachloroethane  
Toluene  
1,2-Dibromoethane  
Chlorobenzene  
Ethylbenzene  
1,1,1,2-Tetrachloroethane  
Styrene  
p,m-Xylene  
o-Xylene  
Isopropylbenzene  
Bromobenzene  
n-Propylbenzene  
2-Chlorotoluene  
1,3,5-Trimethylbenzene  
4-Chlorotoluene  
tert-Butylbenzene  
1,2,4-Trimethylbenzene  
sec-Butylbenzene  
1,3-Dichlorobenzene

## Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

p-Isopropyltoluene  
1,4-Dichlorobenzene  
n-Butylbenzene  
1,2-Dichlorobenzene  
1,2-Dibromo-3-chloropropane  
1,2,4-Trichlorobenzene  
Hexachlorobutadiene  
Methyl tert-butyl ether

Naphthalene  
1,2,3-Trichlorobenzene  
1,1,2-Trichloro trifluoroethane  
Methyl Acetate  
Cyclohexane  
Methylcyclohexane

A.7.3.1.2 Samples are introduced into a gas chromatography by the purge-and-trap method. Purged sample analytes are trapped using a Purge Trap K (VOCARB 3000). Upon completion of purging (11 minutes at 30<sup>0</sup>C at approximately 38-40ml/min for aqueous or 11 minutes at 40<sup>0</sup>C at approximately 38-40ml/min for soil), the trap is heated and back flushed with helium to desorb (desorb preheat at 240<sup>0</sup>C and then desorb at 250<sup>0</sup>C for 4 minutes) the analytes onto the GC column. The GC column is temperature programmed to separate the analytes and introduces them to the Mass Spectrometer detector (35<sup>0</sup>C for 4 minutes, then ramp up to 200<sup>0</sup>C at 8<sup>0</sup>C/min and baked at 200<sup>0</sup>C for 1 minutes.). The identification of target analytes is accomplished by the comparison of mass spectral of known standards with the aid of a reference library. Quantitation is accomplished by comparing the response of a major ion relative to an internal standard followed by a comparison to a seven point calibration curve.

### A.7.3.2 Calibrations and Calculations

#### A.7.3.2.1 BFB Tuning Criteria

GC/MS system calibration and sample analysis can not begin until the required BFB key ions and ion abundance criteria is met.

<u>Mass</u>	<u>Ion Abundance Criteria</u>
50	15.0 to 40.0 percent of m/e 95
75	30.0 to 60.0 percent of m/e 95
95	base peak, 100 percent relative abundance
96	5.0 to 9.0 percent of m/e 95
173	less than 2.0 percent of m/e 174
174	>50.0 but < 100 percent of m/e 95
175	5.0 to 9.0 percent of m/e 174
176	>95.0 but < 101.0 percent of m/e 174
177	5.0 to 9.0 percent of m/e 176

## Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

### A.7.3.2.2 Calibration Curve

A seven point calibration is performed in the initial calibration. The calibration system uses traceable standards containing a mixture of the Volatile Organic Compounds. A seven point calibration curve is performed to determine the response factor and the percent relative standard deviation of each analyte. A mid-level standard, prepared from a second source, is analyzed as a confirmation of standard mix concentrations.

### A.7.3.2.3 Calibration Standards

The calibration curve consists of the calibration standards at concentrations of 2, 5, 50, 100, 150, 200, and 400 (ug/L or ug/Kg). Four internal standards and four surrogate standards, Pentafluorobenzene (IS), 1,4-Difluorobenzene (IS), Chlorobenzene-d5 (IS), 1,4-Dichlorobenzene-d4 (IS), Dibromofluoromethane (SURR), Toluene-d8 (SURR), 1,2-Dichloroethene-d4 (SURR) Bromofluorobenzene (SURR), are used in calibration, quality control, and sample analysis. The calibration curve is an average response factor curve fit and should result in a percent relative standard deviation for all compounds.

A System Performance Check Compounds (SPCCs) should be checked for a minimum average relative response factor before the calibration curve is used. The minimum relative response factor for volatile SPCCs are as follows:

Chloromethane	0.10
1,1-Dichloroethane	0.10
Bromoform	0.10
Chlorobenzene	0.30
1,1,2,2-Tetrachloroethane	0.30

The percent relative standard deviation (%RSD) should be less than 15% for each compound and must be less than 30% for Calibration Check Compound (CCCs). The CCCs are:

1,1-Dichloroethene  
Chloroform  
1,2-Dichloropropane  
Toluene  
Ethylbenzene, and  
Vinyl Chloride

If the %RSD of any compound is greater than 15%, then the analyst should select linear or quadratic regression fit of the seven calibration points that introduces the least calibration error into the quantitation.

A second source initial calibration standard should be analyzed with all performance analytes (SPCCs & CCCs). The %D should be between 70% to 130% limit, or a new initial calibration standard should be prepared.

### A.7.3.2.4 Calibration Verification

A daily continuing calibration is performed every 12-hour analysis period to monitor and validate the instrumentation, column, and Mass Spectrometer performance.

#### A.7.3.2.5 Record Keeping

Documentation of instrument calibration are reviewed for adherence to quality criteria and then stored in the calibration curve records.

#### A.7.3.2.6 Daily Calibration Verification and Continuing Calibration

A 50 ppb calibration standard ensures the instrument's SPCCs and CCCs meet method performance criteria. For any 12 hours analysis period, prior to samples analysis, a one point daily continuing calibration verification is performed. The System Performance Check Compounds (SPCCs) must meet the minimum average relative response factor (A.7.3.2.3). For the Calibration Check Compound (CCCs) the percent drift for each CCC is not to exceed 20% of the initial calibration. If the continuing calibration does not meet method performance criteria then the instrument must be recalibrated.

Calculate the percent drift using the following equation:

$$\% \text{Drift} = (C_i - C_c) / C_i \times 100$$

where:

$C_i$  = Calibration Check Compound standard concentration.

$C_c$  = Measured concentration using selected quantitation method.

#### A.7.3.2.7 Relative Response Factor (RRF)

Relative Response Factor: Calculate the relative response factors (RRF) for each target compound relative to the appropriate internal standard (i.e., standard with the nearest retention time) using the following equation:

$$\text{Equation A.7.3.1} \quad RRF = \frac{A_x C_{is}}{A_{is} C_x}$$

where

$RRF$  = Relative response factor

$A_x$  = Area of the primary ion for the compound to be measured

$A_{is}$  = Area of the primary ion for the internal standard

$C_{is}$  = Concentration of internal standard spiking mixture, ppb

$C_x$  = Concentration of the compound in the calibration standard, ppb

#### A.7.3.2.8 Mean Relative Response Factor ( $\overline{RRF}$ )



## Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

Equation A.7.3.2 
$$\overline{RRF} = \sum_{i=1}^n \frac{x_i}{n}$$

Mean Relative Response Factor: Calculate the mean  $\overline{RRF}$  for each compound by averaging the values obtained at the seven concentrations using the following equation:

where:

$$\begin{aligned}\overline{RRF} &= \text{Mean relative response factor} \\ x_i &= \text{RRF of the compound} \\ n &= \text{Number of values}\end{aligned}$$

### A.7.3.2.9 Percent Relative Standard Deviation (%RSD)

Using the RRFs from the initial calibration, calculate the %RSD for all target compounds using the following equations:

Equation A.7.3.3 
$$\%RSD = \frac{SD_{RRF}}{\overline{RRF}} \times 100$$

and

Equation A.7.3.4 
$$SD_{RRF} = \sqrt{\sum_{i=1}^n \frac{(RRF_i - \overline{RRF})^2}{n - 1}}$$

where:

$$\begin{aligned}SD_{RRF} &= \text{Standard deviation of initial response factors (per compound)} \\ RRF_i &= \text{Relative response factor at a concentration level} \\ \overline{RRF} &= \text{Mean of initial relative response factors (per compound).} \\ n &= \text{Number of values}\end{aligned}$$

### A.7.3.2.10 Relative Retention Times (RRT)

The retention time for each internal standard must be within  $\pm 30$  seconds of the retention time of the internal standard in the most recent valid calibration. Relative retention time of each analyte must be within  $\pm 0.06$  RRT units of the RRT. Calculate the RRTs for each target compound over the initial calibration range using the following equation.

## Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

Equation A.7.3.5 
$$RRT = \frac{RT_c}{RT_{IS}}$$

where:

$RT_c$  = Retention time of the target compound

$RT_{IS}$  = Retention time of the internal standard.

### A.7.3.2.11 Mean of the Relative Retention Times ( $\overline{RRT}$ ):

Calculate the mean of the relative retention times ( $\overline{RRT}$ ) for each analyte target compound over the initial calibration range using the following equation:

Equation A.7.3.6 
$$\overline{RRT} = \sum_{i=1}^n \frac{RRT}{n}$$

where:

$\overline{RRT}$  = Mean relative retention time for the target compound for each initial calibration standard

$RRT$  = Relative retention time for the target compound at each calibration level

$n$  = Number of values

Tabulate the area response ( $Y$ ) of the primary ion and the corresponding concentration for each compound and internal standard.

### A.7.3.2.12 Mean Area Response ( $\overline{Y}$ ) for Internal Standard:

Calculate the mean area response ( $\overline{Y}$ ) for each internal standard compound over the initial calibration range using the following equation:

Equation A.7.3.7 
$$\overline{Y} = \sum_{i=1}^n \frac{Y_i}{n}$$

where:

$\overline{Y}$  = Mean area response

$Y$  = Area response for the primary quantitation ion for the internal standard for each initial calibration standard.

### A.7.3.2.13 Mean of the Retention Times ( $\overline{RT}$ ) For Internal Standard:

## Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

Calculate the mean of the retention times ( $\overline{RT}$ ) for each internal standard over the initial calibration range using the following equation:

Equation A.7.3.8 
$$\overline{RT} = \sum_{i=1}^n \frac{RT_i}{n}$$

where:

$\overline{RT}$  = Mean retention time

$RT$  = Retention time for the internal standard for each initial calibration standard.

$n$  = Number of values

### A.7.3.2.14 Percent Difference (%D):

Calculate the percent difference in the RRF of the daily RRF (24-hour) compared to the mean RRF in the most recent initial calibration. Calculate the %D for each target compound using the following equation:

Equation A.7.3.9 
$$\%D = \frac{RRF_c - \overline{RRF}_i}{\overline{RRF}_i} \times 100$$

where:

$RRF_c$  = RRF of the compound in the continuing calibration standard

$\overline{RRF}_i$  = Mean RRF of the compound in the most recent initial calibration.

### A.7.3.2.15 Sample Concentration Calculation.

Equation A.7.3.10 
$$C_x = \frac{A_x C_{is} DF}{A_{is} RRF}$$

where:

$C_x$  = Compound concentration, ppb

$A_x$  = Area of the characteristic ion for the compound to be measured

$A_{is}$  = Area of the characteristic ion for the specific internal standard

$C_{is}$  = Concentration of the internal standard spiking mixture, ppb

$RRF$  = Relative response factor from the analysis of the continuing calibration standard or the mid level standard of the initial calibration

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

*DF* = Dilution factor. If no dilution is performed,  $DF = 1$

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.7.3.1 RLs for SW-846/8260B**

Parameter/Method	Analyte	Matrix Water		Matrix Soil	
		RL	Unit	RL	Unit
VOCs in 8260B	Dichlorofluoromethane	5.0	ug/L	5.0	ug/kg
	Chloromethane	10.0	ug/L	10.0	ug/kg
	Bromomethane	10.0	ug/L	10.0	ug/kg
	Vinyl chloride	2.0	ug/L	2.0	ug/kg
	Chloroethane	10.0	ug/L	10.0	ug/kg
	Methylene chloride	5.0	ug/L	5.0	ug/kg
	Trichlorofluoromethane	5.0	ug/L	5.0	ug/kg
	Acetone	100.0	ug/L	100.0	ug/kg
	Dibromomethane	5.0	ug/L	5.0	ug/kg
	trans-1,2-Dichloroethene	5.0	ug/L	5.0	ug/kg
	Iodomethane	5.0	ug/L	5.0	ug/kg
	Carbon disulfide	5.0	ug/L	5.0	ug/kg
	1,1-Dichloroethene	5.0	ug/L	5.0	ug/kg
	1,1-Dichloroethane	5.0	ug/L	5.0	ug/kg
	cis-1,2-Dichloroethene	5.0	ug/L	5.0	ug/kg
	2,2-Dichloropropane	5.0	ug/L	5.0	ug/kg
	Bromochloromethane	5.0	ug/L	5.0	ug/kg
	Chloroform	5.0	ug/L	5.0	ug/kg
	1,1-Dichloropropene	5.0	ug/L	5.0	ug/kg
	1,2-Dichloroethane	5.0	ug/L	5.0	ug/kg
	2-Butanone	100.0	ug/L	100.0	ug/kg
	1,1,1-Trichloroethane	5.0	ug/L	5.0	ug/kg
	Carbon tetrachloride	5.0	ug/L	5.0	ug/kg
	Vinyl acetate	50.0	ug/L	50.0	ug/kg
	Bromodichloromethane	5.0	ug/L	5.0	ug/kg
	1,2-Dichloropropane	5.0	ug/L	5.0	ug/kg
	Trichloroethene	5.0	ug/L	5.0	ug/kg
	Benzene	5.0	ug/L	5.0	ug/kg
	cis-1,3-Dichloropropene	5.0	ug/L	5.0	ug/kg
	trans-1,3-Dichloropropene	5.0	ug/L	5.0	ug/kg
	Dibromochloromethane	5.0	ug/L	5.0	ug/kg
	1,1,2-Trichloroethane	5.0	ug/L	5.0	ug/kg
	Bromoform	5.0	ug/L	5.0	ug/kg
	1,2,3-Trichloropropane	5.0	ug/L	5.0	ug/kg
	4-Methyl-2-pentanone	50.0	ug/L	50.0	ug/kg
	2-Hexanone	50.0	ug/L	50.0	ug/kg
	Tetrachloroethene	5.0	ug/L	5.0	ug/kg
	1,3-Dichloropropane	5.0	ug/L	5.0	ug/kg
	1,1,2,2-Tetrachloroethane	5.0	ug/L	5.0	ug/kg
	Toluene	5.0	ug/L	5.0	ug/kg
	1,2-Dibromoethane	5.0	ug/L	5.0	ug/kg
	Chlorobenzene	5.0	ug/L	5.0	ug/kg

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.7.3.1 RLs for SW-846/8260B**

Parameter/Method	Analyte	Matrix Water		Matrix Soil	
		RL	Unit	RL	Unit
VOCs in 8260B	Ethylbenzene	5.0	ug/L	5.0	ug/kg
	1,1,1,2-Tetrachloroethane	5.0	ug/L	5.0	ug/kg
	Styrene	5.0	ug/L	5.0	ug/kg
	p,m-Xylene	10.0	ug/L	10.0	ug/kg
	o-Xylene	5.0	ug/L	5.0	ug/kg
	Isopropylbenzene	5.0	ug/L	5.0	ug/kg
	Bromobenzene	5.0	ug/L	5.0	ug/kg
	n-Propylbenzene	5.0	ug/L	5.0	ug/kg
	2-Chlorotoluene	5.0	ug/L	5.0	ug/kg
	1,3,5-Trimethylbenzene	5.0	ug/L	5.0	ug/kg
	4-Chlorotoluene	5.0	ug/L	5.0	ug/kg
	tert-Butylbenzene	5.0	ug/L	5.0	ug/kg
	1,2,4-Trimethylbenzene	5.0	ug/L	5.0	ug/kg
	sec-Butylbenzene	5.0	ug/L	5.0	ug/kg
	1,3-Dichlorobenzene	5.0	ug/L	5.0	ug/kg
	p-Isopropyltoluene	5.0	ug/L	5.0	ug/kg
	1,4-Dichlorobenzene	5.0	ug/L	5.0	ug/kg
	n-Butylbenzene	5.0	ug/L	5.0	ug/kg
	1,2-Dichlorobenzene	5.0	ug/L	5.0	ug/kg
	1,2-Dibromo-3-chloropropane	5.0	ug/L	5.0	ug/kg
	1,2,4-Trichlorobenzene	5.0	ug/L	5.0	ug/kg
	Hexachlorobutadiene	5.0	ug/L	5.0	ug/kg
	Naphthalene	5.0	ug/L	5.0	ug/kg
	1,2,3-Trichlorobenzene	5.0	ug/L	5.0	ug/kg
	Acrylonitrile	200	ug/L	200	ug/kg
	trans-1,4-Dichloro-2-butene	100	ug/L	100	ug/kg
	Methyl tert-butyl ether	5.0	ug/L	5.0	ug/kg
	1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	ug/L	10.0	ug/kg
	Methyl Acetate	10.0	ug/L	10.0	ug/kg
	Cyclohexane	10.0	ug/L	10.0	ug/kg
	Methylcyclohexane	10.0	ug/L	10.0	ug/kg
	2-Chloro ethyl vinyl ether	5.0	ug/L	N/A	
	Pentafluorobenzene (IS)	---	---	---	---
	1,4-Difluorobenzene (IS)	---	---	---	---
	Chlorobenzene (IS)	---	---	---	---
	1,4-Dichlorobenzene-d4 (IS)	---	---	---	---
	Dibromofluoromethane (SURR)	50.0	ug/L	50.0	ug/kg
	Toluene-d8 (SURR)	50.0	ug/L	50.0	ug/kg
	Bromofluorobenzene (SURR)	50.0	ug/L	50.0	ug/kg
	1,2 Dichloroethane d4 (SURR)	50.0	ug/L	50.0	ug/kg

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.7.3.2 Acceptance Criteria for SW-846/8260B**

Method 8260B	Analyte	Accuracy Aqueous (%R)	Precision Aqueous (RPD)	Accuracy Soil (%R)	Precision Soil (RPD)	Accuracy Waste (%R)	Precision Waste (RPD)
LCS	1,1-Dichloroethene	84-118	≤30%	77-122	≤40%	82-117	≤50%
	Benzene	89-115	≤30%	76-121	≤40%	90-107	≤50%
	Trichloroethene	85-113	≤30%	82-114	≤40%	89-105	≤50%
	Toluene	87-113	≤30%	78-116	≤40%	87-108	≤50%
	Chlorobenzene	88-112	≤30%	75-121	≤40%	84-114	≤50%
MS	1,1-Dichloroethene	50-128	≤30%	20-162	≤40%	28-148	≤50%
	Benzene	80-110	≤30%	39-140	≤40%	58-141	≤50%
	Trichloroethene	74-108	≤30%	41-131	≤40%	50-163	≤50%
	Toluene	82-112	≤30%	34-169	≤40%	54-136	≤50%
	Chlorobenzene	84-112	≤30%	51-128	≤40%	66-147	≤50%
SS	Dibromofluoromethane	94-111	NA	80-117	NA	94-107	NA
	1,2-Dichloroethane-d4	91-112	NA	78-118	NA	92-111	NA
	Toluene-d8	92-106	NA	76-118	NA	93-106	NA
	Bromofluorobenzene	86-112	NA	68-119	NA	88-107	NA

**Table A.7.3.3 Summary of Calibration and QC Procedures for Method EPA 8260B**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
8260B	Volatile Organics	Seven -point initial calibration for all analytes	Initial calibration prior to sample analysis	SPCCs average RF ≥ 0.10 ; and %RSD for CCCs ≤ 30% and RSD for all compounds ± 15% <i>option #1</i> linear regression for any analytes <i>r</i> ≥ 0.995 <i>option #2</i> non-linear regression CORR ≥ 0.990	Correct problem then repeat initial calibration.	
		Second-source calibration verification	Once per seven- point initial calibration (usually 50ug/L concentration level)	All performance analytes within ±30% of expected value	Correct problem then repeat initial calibration	

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.7.3.3 Summary of Calibration and QC Procedures for Method EPA 8260B**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
8260B	Volatile Organics	Calibration verification	Daily, before sample analysis, every 12 hours of analysis time	SPCCs average RF0.10; and CCCs $\pm 20\%$ drift; and all calibration analytes within $\pm 20\%$ drift criterion if the CCCs are not required analyses by the permit	Correct problem then repeat initial calibration	
		Initial Demonstration: Demonstrate ability to generate acceptable accuracy and precision using four replicate analyses of a QC check sample	Once per analyst	QC acceptance criteria, Table A.7.3.2	Recalculate results; locate and fix problem with system and then rerun demonstration for those analytes that did not meet criteria	
		Check of mass spectral ion intensities using BFB	Prior to initial calibration and calibration verification	Refer to criteria listed in the method description	Retune instrument and verify	
		ISs	Immediately after or during data acquisition of calibration check standard	Retention time $\pm 30$ seconds; EICP area within -50% and $\pm 100\%$ of Initial Calibration from mid-point standard (50ug/L)	Inspect mass spectrometry or GC for malfunctions; mandatory reanalysis of samples analyzed while system was malfunctioning	
		Method Blank	One per analytical batch	No analytes detected >RL	Inspect mass spectrometer or GC for malfunctions; mandatory reanalysis of samples analyzed while system was malfunctioning.	If unable to re-analyze, flag with a "B"
		LCS/LCSD for all analytes	One LCS/LCSD per analytical batch	QC acceptance criteria Table A.7.3.2	Correct problem then reanalyze the LCS and all samples in the affected batch	If unable to re-analyze, flag with a "J"
		Matrix spike & Matrix spike dup	One MS & MSD per analytical batch	QC acceptance criteria Table A.7.3.2	Correct problem then reanalyze samples in the batch if and only if QC acceptance criteria of LCS is failed.	
		Surrogate spike	Every sample, spiked sample, standard, and method blank	QC acceptance criteria Table A.7.3.2	Correct problem then reanalyze sample	
		MDL study	Once per year	Detection limits established shall be $\leq$ the RLs in Table A.7.3.1	None	



**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.7.3.3 Summary of Calibration and QC Procedures for Method EPA 8260B**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
8260B	Volatile Organics	Trace results between MDL and RL	none	None	none	Result is noted as a Trace
		Estimated amount for analytes above the 7- pt calibration curve	none	All analytes >400ug/L.Except for m,p-Xylene > 800ug/L	Sample must be diluted and reanalyzed.	Apply E to all analytes above initial calibration range..

## A.7.4 EPA Method 8270C - Semi-Volatile Organics by Capillary GC/MS

Measurement of Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS): Capillary Column Technique:

Water samples for semivolatile organic compounds are collected in a 1-liter narrow mouth glass bottle. Sample bottles must be cooled to 4°C after sample collection. Two to four bottles are required for each sample. Samples must be extracted within 7 days and the extracts then analyzed within 40 days.

Soil and sediment samples for semivolatile organic compounds are collected in 8 oz wide mouth glass sample bottles. Sample bottles must be cooled to 4°C after sample collection. Two to four bottles are required for each sample. Samples must be extracted within 14 days and the extracts then analyzed within 40 days.

## A.7.4.1 Scope and Application:

Method 8270C is used to determine the concentration of semi-volatile organic compounds in extracts prepared from liquids, sediments, and a variety of multi-phase samples. The laboratory currently analyzes the following compounds

Pyridine	1,2,4-Trichlorobenzene	1-Naphthylamine
n-Nitrosodimethylamine	aa-Dimethylphenethylamine	2-Naphthylamine
2-Picoline	Naphthalene	2,3,4,6-Tetrachlorophenol
Methylmethanesulfonate	4-Chloroaniline	Diethylphthalate
Ethylmethanesulfonate	2,6-Dichlorophenol	Fluorene
Aniline	Hexachlorobutadiene	4-Chlorophenyl phenyl ether
Benzaldehyde	Caprolactan	4-Nitroaniline
Phenol	N-Nitroso-di-n-butylamine	Diphenylamine
Bis(2-chloroethyl)ether	4-Chloro-3-methylphenol	4,6-Nitro-2-methylphenol
2-Chlorophenol	2-Methylnaphthalene	N-Nitrosodiphenylamine
1,3-Dichlorobenzene	1,2,4,5-Tetrachlorobenzene	1,2-Diphenylhydrazine
1,4-Dichlorobenzene	Hexachlorocyclopentadiene	4-Bromophenyl phenyl ether
Benzyl alcohol	2,4,6-Trichlorophenol	Phenacetin
1,2-Dichlorobenzene	2,4,5-Trichlorophenol	Hexachlorobenzene
2-Methylphenol	1,1'-Biphenyl	Atrazine
Bis (2-chloroisopropyl)ether	2-Chloronaphthalene	4-Aminobiphenyl
Acetophenone	1-Chloronaphthalene	Pentachlorophenol
4-Methylphenol	2-Nitroaniline	Pronamide
N-Nitroso-di-n-propylamine	Dimethylphthalate	Pentachlorodinitrobenzene
Hexachloroethane	Acenaphthylene	Phenanthrene
Nitrobenzene	2,6-Dinitrotoluene	Anthracene
N-Nitrosopiperidine	3-Nitroaniline	Carbazole
Isophorone	Acenaphthene	Di-n-butyl phthalate
2-Nitrophenol	2,4-Dinitrophenol	Fluoranthene
2,4-Dimethylphenol	4-Nitrophenol	Benzidine
Bis(2-chloroethoxy)methane	Dibenzofuran	Pyrene
Benzoic acid	Pentachlorobenzene	
2,4-Dichlorophenol	2,4-Dinitrotoluene	

## Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318  
David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

p-Dimethylaminoazobenzene	Dibenz[a,h]anthracene	p,p'-DDD
Butylbenzylphthalate	Benzo[g,h,i]perylene	Endrin aldehyde
Benzo[a]anthracene	Alpha-BHC	Endosulfan sulfate
3,3'-Dichlorobenzidine	Gamma-BHC	p,p'-DDT
Chrysene	Beta-BHC	
Bis(2-ethylhexyl)phthalate	Delta-BHC	
Di-n-octylphthalate	Heptachlor	<u>Surrogate Standards:</u>
Benzo[b]fluoranthene	Aldrin	2-Fluorophenol
Benzo[k]fluoranthene	Heptachlor epoxide	Phenol-d5
7,12- Dimethylbenz(a)anthracene	Endosulfan 1	Nitrobenzene-d5
Benzo[a]pyrene	Dieldrin	2-Fluorobiphenyl
3-Methylchloranthrene	p,p'-DDE	2,4,6-Tribromophenol
Dibenz(a,j)acridine	Endrin	Terphenyl-d14
Indeno[1,2,3-cd]pyrene	Endosulfan 2	

A.7.4.1.1 The following EPA SW-846 extraction methods are used to prepare samples for 8270C analysis:

3510, 3541, 3550B & 3580A

A.7.4.1.2 Each of these extraction methods uses similar principles. A sample of water or solid is mixed with methylene chloride, which is collected and concentrated to a much smaller volume under controlled conditions. The resulting extracts are then analyzed for the compounds listed in section A.7.4.1, Scope.

### A.7.4.1.2 Application

Method 8270 can be used to quantitate most neutral, acidic, and basic organic compounds that are soluble in methylene chloride and capable of being eluted, without derivatization, as sharp peaks from a gas chromatographic fused silica capillary column coated with a slightly polar silicone. Such compounds include polynuclear aromatic hydrocarbons, chlorinated hydrocarbons and pesticides, phthalate esters, organophosphate esters, nitrosamines, haloethers, aldehydes, ethers, ketones, anilines, pyridines, quinolines, aromatic nitro compounds, and phenols, including nitrophenols.

Samples are introduced into the GC/MS system by direct injection from an autosampler. The injector temperature is at 250<sup>0</sup> C, which vaporizes the sample and passes it through a 30 meter 0.25 millimeter diameter capillary column. The coating inside this column will separate the compounds of interest by a combination of molecular size and polarity. As each of these separated compounds exits the column it is introduced into the Mass Spectrometer which reduces the compound into several ions which form a unique pattern of ion sizes and intensity which will aid in identifying the compound and determining the concentration.

### A.7.4.2 Calibration

A.7.4.2.1 Initial Calibration - Before any analysis of samples the GC/MS must be "tuned" and calibrated with a minimum of 5 different concentrations of standards that contain all compounds of interest.

The criteria for a passing tune are:

<u>Mass Ion</u>	<u>Abundance Criteria</u>
51	30-60% of mass 198
68	<2% of mass 69
70	<2% of mass 69
127	40-60% of mass 198
197	<1% of mass 198
198	Base peak, 100% relative abundance
199	5-9% of mass 198
275	10-30% of mass 198
365	>1% of mass 198
441	Present but less than mass 443
442	>40% of mass 198
443	17-23% of mass 442

Initial Calibration Curve: A minimum of five concentrations of all relative compounds should be analyzed and entered into the initial calibration section of the software. The range of concentrations should be between the reporting limit and a concentration that maintains linearity and does not saturate the column. An average response of less than 15% is considered acceptable for calculating results with the average response factor. If any compound has a higher %RSD it can be checked for Correlation Coefficient (CORR also call  $R^2$ ) using linear or quadratic regression and it's curve can be used for calculation.

The recommended concentrations for a five-point curve are:

10, 20, 50, 120, and 160 mg/L for all compounds.

All analyses are corrected for drifts in the MS sensitivity by use of internal standards. This method utilizes 6 internal standards at 40 mg/L: 1,4-Dichlorobenzene- $d_4$ , Naphthalene- $d_8$ , Acenaphthene- $d_{10}$ , Phenanthrene- $d_{10}$ , Chrysene- $d_{12}$ , and Perylene- $d_{12}$ . All standards and samples are spiked with these compounds.

Independent Calibration Verification: A standard from a different supplier containing the analytes of interest is analyzed. The % Difference should be  $\pm 15\%$  from the theoretical amount to verify the concentration of the standards used to make the curve. This is also called a "control" standard.

A.7.4.2.2 Calibration Verification: A mid-level concentration standard of all compounds of interest must be analyzed before each batch of analyses (every 12 hours). The % difference of all compounds should be no greater than 20% difference of the true value. Certain compounds have additional requirements for acceptance, see method 8270, section 8 for further requirements.

#### A.7.4.2.3 Calibration Verification

A daily continuing calibration is performed every 12-hour analysis period to monitor and validate the instrumentation, column, and Mass Spectrometer performance.

## A.7.4.2.4 Record Keeping

Documentation of instrument calibration is reviewed for adherence to quality criteria and then stored in the calibration curve records.

## A.7.4.2.5 Daily Calibration Verification and Continuing Calibration

A 50 ppm calibration standard ensures the instrument's SPCCs and CCCs meet method performance criteria. For any 12-hour analysis period, prior to samples analysis, a one point daily continuing calibration verification is performed. The System Performance Check Compounds (SPCCs) must meet the minimum average relative response factor (A.7.4.3). For the Calibration Check Compound (CCCs) the percent drift for each CCC is not to exceed 20% of the initial calibration. If the continuing calibration does not meet method performance criteria then the instrument must be recalibrated.

Calculate the percent drift using the following equation:

$$\% \text{Drift} = (C_i - C_c) / C_i \times 100$$

where:

$C_i$  = Calibration Check Compound standard concentration.

$C_c$  = Measured concentration using selected quantitation method.

## A.7.4.2.6 Relative Response Factor (RRF)

Relative Response Factor: Calculate the relative response factors (RRF) for each target compound relative to the appropriate internal standard (i.e., standard with the nearest retention time) using the following equation:

$$\text{Equation A.7.4.1} \quad RRF = \frac{A_x C_{is}}{A_{is} C_x}$$

where

$RRF$  = Relative response factor

$A_x$  = Area of the primary ion for the compound to be measured

$A_{is}$  = Area of the primary ion for the internal standard

$C_{is}$  = Concentration of internal standard spiking mixture, ppb

$C_x$  = Concentration of the compound in the calibration standard, ppb

A.7.4.2.7 Mean Relative Response Factor ( $\overline{RRF}$ )

Mean Relative Response Factor: Calculate the mean RRF ( $\overline{RRF}$ ) for each compound by averaging the values obtained at the five concentrations using the following equation:

$$\text{Equation A.7.4.2} \quad \overline{RRF} = \sum_{i=1}^n \frac{x_i}{n}$$

where:

$\overline{RRF}$  = Mean relative response factor

$x_i$  = RRF of the compound

$n$  = Number of values

#### A.7.4.2.8 Percent Relative Standard Deviation (%RSD)

Using the RRFs from the initial calibration, calculate the %RSD for all target compounds using the following equations:

$$\text{Equation A.7.4.3 } \%RSD = \frac{SD_{RRF}}{\overline{RRF}} \times 100$$

and

$$\text{Equation A.7.4.4 } SD_{RRF} = \sqrt{\sum_{i=1}^n \frac{(RRF_i - \overline{RRF})^2}{n-1}}$$

where:

$SD_{RRF}$  = Standard deviation of initial response factors (per compound)

$RRF_i$  = Relative response factor at a concentration level

$\overline{RRF}$  = Mean of initial relative response factors (per compound).

$n$  = Number of values

#### A.7.4.2.9 Relative Retention Times (RRT)

The retention time for each internal standard must be within  $\pm 30$  seconds of the retention time of the internal standard in the most recent valid calibration. Relative retention time of each analyte within  $\pm 0.06$  RRT units of the RRT. Calculate the RRTs for each target compound over the initial calibration range using the following equation.

$$\text{Equation A.7.4.5 } RRT = \frac{RT_c}{RT_{IS}}$$

where:

$RT_c$  = Retention time of the target compound

$RT_{IS}$  = Retention time of the internal standard.

A.7.4.2.10 Mean of the Relative Retention Times ( $\overline{RRT}$ ):

Calculate the mean of the relative retention times ( $\overline{RRT}$ ) for each analyte target compound over the initial calibration range using the following equation:

$$\text{Equation A.7.4.6 } \overline{RRT} = \sum_{i=1}^n \frac{RRT}{n}$$

where:

$\overline{RRT}$  = Mean relative retention time for the target compound for each initial calibration standard

$RRT$  = Relative retention time for the target compound at each calibration level

$N$  = Number of values

Tabulate the area response ( $Y$ ) of the primary ion and the corresponding concentration for each compound and internal standard.

A.7.4.2.11 Mean Area Response ( $\overline{Y}$ ) for Internal Standard:

Calculate the mean area response ( $\overline{Y}$ ) for each internal standard compound over the initial calibration range using the following equation:

$$\text{Equation A.7.4.7 } \overline{Y} = \sum_{i=1}^n \frac{Y_i}{n}$$

where:

$\overline{Y}$  = Mean area response

$Y$  = Area response for the primary quantitation ion for the internal standard for each initial calibration standard.

A.7.4.2.12 Mean of the Retention Times ( $\overline{RT}$ ) For Internal Standard:

Calculate the mean of the retention times ( $\overline{RT}$ ) for each internal standard over the initial calibration range using the following equation:

$$\text{Equation A.7.4.8 } \overline{RT} = \sum_{i=1}^n \frac{RT_i}{n}$$

where:

# Georgia Department of Natural Resources

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

$\overline{RT}$  = Mean retention time

$RT$  = Retention time for the internal standard for each initial calibration standard.

$n$  = Number of values

## A.7.4.2.13 Percent Difference (%D):

Calculate the percent difference in the RRF of the daily RRF (24-hour) compared to the mean RRF in the most recent initial calibration. Calculate the %D for each target compound using the following equation:

$$\text{Equation A.7.4.9 } \%D = \frac{\overline{RRF_c} - \overline{RRF_i}}{\overline{RRF_i}} \times 100$$

where:

$\overline{RRF_c}$  = RRF of the compound in the continuing calibration standard

$\overline{RRF_i}$  = Mean RRF of the compound in the most recent initial calibration.

## A.7.4.2.14 Sample Concentration Calculation.

$$\text{Equation A.7.4.5 } C_x = \frac{A_x C_{is} DF}{A_{is} RRF}$$

where:

$C_x$  = Compound concentration, ppm

$A_x$  = Area of the characteristic ion for the compound to be measured

$A_{is}$  = Area of the characteristic ion for the specific internal standard

$C_{is}$  = Concentration of the internal standard spiking mixture, ppm

$RRF$  = Relative response factor from the analysis of the continuing calibration standard or the mid level standard of the initial calibration

$DF$  = Dilution factor. If no dilution is performed,  $DF = 1$



**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.7.4.1 RLs for SW-846/8270C**

Parameter/Method	Analyte	Matrix (Aqueous)		Matrix (Soil)	
		RL	Unit	RL	Unit
SVOCs SW-846 Method 8270C	Pyridine	10	ug/l	660	ug/kg
	n-Nitrosodimethylamine	10	ug/L	660	ug/kg
	2-Picoline	10	ug/L	660	ug/kg
	Methylmethanesulfonate	10	ug/L	660	ug/kg
	Ethylmethanesulfonate	20	ug/L	660	ug/kg
	Aniline	10	ug/L	1300	ug/kg
	Benzaldehyde	10	ug/L	660	ug/kg
	Phenol	10	ug/L	660	ug/kg
	bis(2-Chloroethyl)ether	10	ug/L	660	ug/kg
	2-Chlorophenol	10	ug/L	660	ug/kg
	1,3-Dichlorobenzene	10	ug/L	660	ug/kg
	1,4-Dichlorobenzene	10	ug/L	660	ug/kg
	Benzyl Alcohol	20	ug/L	1300	ug/kg
	1,2-Dichlorobenzene	10	ug/L	660	ug/kg
	2-Methylphenol	10	ug/L	660	ug/kg
	Bis (2-Chloroisopropyl) ether	10	ug/L	660	ug/kg
	Acetophenone	10	ug/L	660	ug/kg
	4-Methylphenol	10	ug/L	660	ug/kg
	N-Nitroso-di-n-propylamine	10	ug/L	660	ug/kg
	Hexachloroethane	10	ug/L	660	ug/kg
	Nitrobenzene	20	ug/L	1300	ug/kg
	N-Nitrosopiperidine	10	ug/L	660	ug/kg
	Isophorone	10	ug/L	660	ug/kg
	2-Nitrophenol	10	ug/L	660	ug/kg
	2,4-Dimethylphenol	10	ug/L	660	ug/kg
	Bis(2-Chloroethoxy)methane	10	ug/L	660	ug/kg
	Benzoic Acid	50	ug/L	3300	ug/kg
	2,4-Dichlorophenol	10	ug/L	660	ug/kg
	1,2,4-Trichlorobenzene	10	ug/L	660	ug/kg
	aa-Dimethyl-phenthylamine	10	ug/L	660	ug/kg
	Naphthalene	20	ug/L	1300	ug/kg
	4-Chloroaniline	10	ug/L	660	ug/kg
	Hexachlorobutadiene	10	ug/L	660	ug/kg
	Caprolactam	10	ug/L	660	ug/kg
	N-Nitroso-di-n-butylamine	10	ug/L	660	ug/kg
	4-Chloro-3-Methylphenol	20	ug/L	1300	ug/kg
	2-Methylnaphthalene	10	ug/L	660	ug/kg
	1,2,4,5-Tetrachlorobenzene	10	ug/L	660	ug/kg
	Hexachlorocyclopentadiene	10	ug/L	660	ug/kg
	2,4,6-Trichlorophenol	10	ug/L	660	ug/kg
	2,4,5-Trichlorophenol	10	ug/L	660	ug/kg
	1,1'Biphenyl	10	ug/L	660	ug/kg
	2-Chloronaphthalene	10	ug/L	660	ug/kg

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.7.4.1 RLs for SW-846/8270C**

Parameter/Method	Analyte	Matrix (Aqueous)		Matrix (Soil)	
		RL	Unit	RL	Unit
SVOCs SW-846 Method 8270C	1-Chloronaphthalene	10	ug/L	660	ug/kg
	2-Nitroaniline	50	ug/L	3300	ug/kg
	Dimethylphthalate	10	ug/L	660	ug/kg
	Acenaphthylene	10	ug/L	660	ug/kg
	2,6-Dinitrotoluene	10	ug/L	660	ug/kg
	3-Nitroaniline	50	ug/L	3300	ug/kg
	Acenaphthene	10	ug/L	660	ug/kg
	2,4-Dinitrophenol	50	ug/L	3300	ug/kg
	4-Nitrophenol	50	ug/L	3300	ug/kg
	Pentachlorobenzene	10	ug/L	660	ug/kg
	2,4-Dinitrotoluene	10	ug/L	660	ug/kg
	1-Naphthylamine	10	ug/L	660	ug/kg
	2-Naphthylamine	10	ug/L	660	ug/kg
	2,3,4,6-Tetrachlorophenol	10	ug/L	660	ug/kg
	Diethylphthalate	10	ug/L	660	ug/kg
	Fluorene	10	ug/L	660	ug/kg
	4-Chlorophenyl-phenylether	10	ug/L	660	ug/kg
	4-Nitroaniline	20	ug/L	1300	ug/kg
	Diphenylamine	10	ug/L	660	ug/kg
	4,6-Nitro-2-methylphenol	50	ug/L	3300	ug/kg
	N-Nitrosodiphenylamine	10	ug/L	660	ug/kg
	1,2-Diphenylhydrazine	10	ug/L	660	ug/kg
	4-Bromophenyl-phenylether	10	ug/L	660	ug/kg
	Phenacetin	20	ug/L	1300	ug/kg
	Hexachlorobenzene	10	ug/L	660	ug/kg
	Atrazine	10	ug/L	660	ug/kg
	4-Amino-biphenyl	20	ug/L	1300	ug/kg
	Pentachlorophenol	50	ug/L	3300	ug/kg
	Pronamide	10	ug/L	660	ug/kg
	Pentachloronitrobenzene	20	ug/L	1300	ug/kg
	Phenanthrene	10	ug/L	660	ug/kg
	Anthracene	10	ug/L	660	ug/kg
	Carbazole	10	ug/L	660	ug/kg
	Di-n-butylphthalate	10	ug/L	660	ug/kg
	Fluoranthene	10	ug/L	660	ug/kg
	Benzidine	10	ug/L	660	ug/kg
	Pyrene	10	ug/L	660	ug/kg
	p-Dimethylaminoazobenzene	10	ug/L	660	ug/kg
	Butylbenzylphthalate	10	ug/L	660	ug/kg
	Benzo[a]anthracene	10	ug/L	660	ug/kg
	3,3'-Dichlorobenzidine	20	ug/L	1300	ug/kg
	Chrysene	10	ug/L	660	ug/kg
	Bis(2-ethylhexyl)phthalate	10	ug/L	660	ug/kg
	Di-n-octylphthalate	10	ug/L	660	ug/kg

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.7.4.1 RLs for SW-846/8270C**

Parameter/Method	Analyte	Matrix (Aqueous)		Matrix (Soil)	
		RL	Unit	RL	Unit
SVOCs SW-846 Method 8270C	Benzo[b]fluoranthene	10	ug/L	660	ug/kg
	Benzo[k]fluoranthene	10	ug/L	660	ug/kg
	7,12- Dimethylbenz(a)anthracene	10	ug/L	660	ug/kg
	Benzo[a]pyrene	10	ug/L	660	ug/kg
	3-Methylchloranthrene	10	ug/L	660	ug/kg
	Dibenz(a,j)acridine	10	ug/L	660	ug/kg
	Indeno[1,2,3-cd]pyrene	10	ug/L	660	ug/kg
	Dibenz[a,h]anthracene	10	ug/L	660	ug/kg
	Benzo[g,h,i]perylene	10	ug/L	660	ug/kg
	Alpha-BHC	10	ug/L	660	ug/kg
	Gamma-BHC	10	ug/L	660	ug/kg
	Beta-BHC	10	ug/L	660	ug/kg
	Delta-BHC	10	ug/L	660	ug/kg
	Heptachlor	10	ug/L	660	ug/kg
	Aldrin	10	ug/L	660	ug/kg
	Heptachlor epoxide	25	ug/L	1800	ug/kg
	Endosulfan 1	50	ug/L	3300	ug/kg
	Dieldrin	10	ug/L	660	ug/kg
	p,p'-DDE	10	ug/L	660	ug/kg
	Endrin	20	ug/L	1300	ug/kg
	Endosulfan 2	50	ug/L	3300	ug/kg
	p,p'-DDD	10	ug/L	660	ug/kg
	Endrin aldehyde	10	ug/L	660	ug/kg
	Endosulfan sulfate	25	ug/L	1800	ug/kg
	p,p'-DDT	10	ug/L	660	ug/kg

**Table A.7.4.2 Acceptance Criteria for Method EPA 8270C**

Parameter/Method	Analyte	Accuracy	Precision	Accuracy	Precision
		Water (%)	Water (RPD))	Soil (%)	Soil (RPD))
SVOCs SW-846 Method 8270C	Phenol	16-75	≤30%	17-110	≤40%
	2-Chlorophenol	41-180	≤30%	29-105	≤40%
	1,4-Dichlorobenzene	29-77	≤30%	29-95	≤40%
	N-Nitroso-di-n-propylamine	31-104	≤30%	21-120	≤40%
	1,2,4-Trichlorobenzene	34-90	≤30%	44-98	≤40%
	4-Chloro-3-methylphenol	44-108	≤30%	36-118	≤40%
	Acenaphthene	40-107	≤30%	42-104	≤40%
	4-Nitrophenol	10-62	≤30%	15-90	≤40%
	2,4-Dinitrtoluene	45-115	≤30%	31-82	≤40%
	Pentachlorophenol	27.2-127	≤30%	10-82	≤40%

**Georgia Department of Natural Resources**

Environmental Protection Division

EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director

Ray Terhune, Quality Assurance Manager

**Table A.7.4.2 Acceptance Criteria for Method EPA 8270C**

Parameter/Method	Analyte	Accuracy Water (%)	Precision Water (RPD))	Accuracy Soil (%)	Precision Soil (RPD))
SVOCs SW-846 Method 8270C	Pyrene	43-126	≤30%	10-126	≤40%
	SS: 2,4,6-Tricbromophenol	10-135	NA	14-110	NA
	SS: Fluorobiphenyl	10-119	NA	30-86	NA
	SS: Fluorophenol	10-74.1	NA	19-67	NA
	SS: Nitrobenzene-d5	12-119	NA	26-87	NA
	SS: Phenol-d5	10-54.9	NA	12-77	NA
	SS: Terphenyl-d14	10-128	NA	44-97	NA

**Table A.7.4.3 Summary of Calibration and QC Procedures for Method EPA SW-846 8270C**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
SW-846 8270C	Semi-Volatile Organics	Five -point initial calibration for all analytes	Initial calibration prior to sample analysis	SPCCs average RF≥ 0.050; %RSD for CCCs ≤ 30%; should be less than 15% for all other analytes. If CORR used, > 0.99.	Correct problem then repeat initial calibration	
		Second-source calibration verification	Once per five-point initial calibration	Analytes within ±15% of expected value	Correct problem then repeat initial calibration	
		Calibration verification	Daily, before sample analysis, every 12 hours of analysis time	SPCCs average RF≥ 0.050; and CCCs ≤ 20% drift; and all calibration analytes within ±20% of expected value	Correct problem(usually clipping column and changing insert) then repeat calibration ver. If fails, recalibrate.	
		Initial Demonstration: Demonstrate ability to generate acceptable accuracy and precision using four replicate analytes of a QC check sample	Once per analyst	QC limits set for LCS must be used and all tested analytes must fall within these limits for acceptable results.	Recalculate results; locate and fix problem with system and then rerun demonstration for those analytes that did not meet criteria	
		Check of mass spectral ion intensities using DFTPP	Prior to initial calibration and calibration verification	Refer to criteria listed in the method description	Retune instrument and verify with DFTPP tune check again.	
		Internal Standards	Immediately after or during data acquisition of calibration check standard	Retention time ± 30 seconds: relative ion intensities within ±30% of last calibration verification (12 hours) for each	Inspect mass spectrometry or GC for malfunctions; mandatory reanalysis of samples analyzed while system was malfunctioning	
		Method Blank	One per analytical batch	No analytes detected >RL	Ensure no contamination then reanalyze method blank and all samples processed with the contaminated blank	If unable to re- analyze, flag with a "B"

# Georgia Department of Natural Resources

Environmental Protection Division  
EPD Laboratory, 455 14<sup>th</sup> Street, Atlanta GA 30318

David Jones, Laboratory Director  
Ray Terhune, Quality Assurance Manager

**Table A.7.4.3 Summary of Calibration and QC Procedures for Method EPA SW-846 8270C**

Method	Applicable Parameter	QC Check	Minimum Frequency	Acceptance Criteria	Corrective Action	Flagging Criteria
SW-846 8270C	Semi-Volatile Organics	LCS/LCSD for selected analytes	One LCS/LCSD per analytical batch	QC acceptance criteria established by control charts semi-annually. Precision depends on matrix, 30, 40, 50% for waters, soils, wastes	Correct problem then reanalyze the LCS and all samples in the affected batch	If unable to re-analyze, flag with a "J"
		Surrogate spike	Every sample, spiked sample, standard, and method blank	QC acceptance criteria set by control charts semi-annually	Reanalyze sample. If still low, re-extract and reanalyze. If still low flag data.	If determined that sample matrix is interfering, flag as estimated values.
		MDL Study	Once per year	Detection limits established shall be <the RLs in SOP	If MDL recoveries are less than 70%, repeat at a higher concentration.	
		Results reported between MDL and RL	None	None	None	N/A
		Estimated amount for analytes above the 5- pt calibration curve	None	All analytes < 160ug/L waters < 5300ug/Kg soils < 160mg/Kg wastes.	Sample must be diluted and reanalyzed.	Apply E to all analytes out of range.

## **APPENDIX C: Equipment List**

## **APPENDIX D: Health and Safety Plan**

# SAMPLE

FACILITY NAME: Vantran Electric Corp  
 ADDRESS: 1600 Midville Rd  
Louisville, Ga.

EPA ID#: GAD 051 041 424  
 PHONE NO: inoperative site

## PERSONNEL LOG

NAME/SIGNATURE	DATE OF LAST SAFETY TRAINING/ FIT TEST	DATE CHECKLIST PREPARED/ REVIEWED	** CHECKLIST MODIFIED?	SITE VISIT DATE(S)	INSPECTION TYPE (CME, CEI, RFA, ETC.)	FIRST LEVEL SUPERVISOR'S SIGNATURE OF APPROVAL AND DATE	SECOND LEVEL SUPERVISOR'S SIGNATURE OF APPROVAL AND DATE
* Andrew Taft	1/14/02	7/12/02		7/15-17/02	Sampling		
Maurice Carter	1/14/02	7/12/02		7/15-17/02	Sampling		
R. Allen	4/1/02	7/12/02		7/15-17/02	Sampling		
	1/14/02	1/14/02		7/15-17/02	Sampling		
Deane Whitely Jr	10/01	7/12/02		7/15-7/16	Sampling		

Place an asterisk (\*) before the name of the EPA person who will be responsible for protection and safety of all EPA personnel during the site visit.

\*\* Place a double asterisk (\*\*) and date after modified information, or attach extra page.



GENERAL INFORMATION

FACILITY NAME: Vantian Electric Corp CONTACT: Steve Puke

DIRECTIONS TO FACILITY: (Attach map if possible)

See attached map

SPECIAL ACCESS REQUIREMENTS: \_\_\_\_\_

EMERGENCY INFORMATION

See attached map ↓  
AMBULANCE: \_\_\_\_\_ TELEPHONE: 911  
HOSPITAL: Jefferson Hospital TELEPHONE: 911  
POLICE: \_\_\_\_\_ TELEPHONE: 911  
FIRE DEPARTMENT: \_\_\_\_\_ TELEPHONE: 911  
SITE/FIRE EVACUATION SIGNALS: \_\_\_\_\_

INFORMATION SOURCES

PART B: \_\_\_\_\_ STATE: \_\_\_\_\_ CONTINGENCY PLAN: \_\_\_\_\_  
ESD: \_\_\_\_\_ RFA: \_\_\_\_\_ CLOSURE PLAN: \_\_\_\_\_  
SWMU QUESTIONNAIRE: \_\_\_\_\_ PART A: \_\_\_\_\_ OTHER: \_\_\_\_\_

PERMITS

HAZARDOUS WASTE: \_\_\_\_\_ STATUS: \_\_\_\_\_  
WATER: \_\_\_\_\_ AIR: \_\_\_\_\_ OTHER: \_\_\_\_\_

SUMMARY OF REGULATED UNITS AND SWMUS: (Indicate number of units)

LANDFILLS: \_\_\_\_\_ INCINERATORS: \_\_\_\_\_ STORAGE AREAS: \_\_\_\_\_  
WASTE PILES: \_\_\_\_\_ OTHER TREATMENT: \_\_\_\_\_ OTHER: \_\_\_\_\_  
SURFACE IMPROVEMENTS: \_\_\_\_\_ TANK FARMS: \_\_\_\_\_ SWMUS: \_\_\_\_\_

FACILITY PROCESS DESCRIPTION:

Formerly manufactured and repaired transformers

PREVIOUS RELEASES/ACCIDENTS OR COMPLAINTS: (Corrected? YES/NO)

AIR N/A

SOIL N/A

SURFACE WATER N/A

INDUSTRIAL ACCIDENTS N/A

COMPLAINTS N/A

#### HEALTH AND SAFETY HAZARDS

Briefly indicate hazard type. Attach additional pages if necessary.

EXPLOSION/OXYGEN DEFICIENCY HAZARDS:

NONE (Circle if applicable)

RADIATION HAZARDS:

NONE (Circle if applicable)

TOXIC HAZARDS:

*Possible PCB contamination*

NONE (Circle if applicable)

Briefly summarize chemicals handled on site: Add attachment if necessary.

Indicate if these exist in a controlled state. Refer to Part A Application if list is extensive.

*PCB contaminated environmental media*

UNUSUAL PHYSICAL HAZARDS:

*Heat Stress (see attached info).*

NONE (Circle if applicable)

UNUSUAL BIOLOGICAL HAZARDS:

NONE (Circle if applicable)

CHECK IF PROBLEM EXPECTED: NOISE        HEAT STRESS ✓ COLD STRESS       

#### OVERALL HAZARD RATING: (CIRCLE ONE)

VERY HIGH  
(LEVEL A)

HIGH  
(LEVEL B)

MEDIUM  
(LEVEL C)

LOW  
(LEVEL D)

(ASSISTANCE NECESSARY) (ASSISTANCE NECESSARY) (MONITORING REQUIRED)

## PERSONAL PROTECTIVE EQUIPMENT

(List equipment needed in addition to safety glasses, hard hat, and steel toed boots)

	Check if Needed	Needed throughout entire facility? (If no, list area(s) or task(s) where needed.)
<u>HEAD AND EYE:</u>		
FACE SHIELD		
GOGGLES	<input checked="" type="checkbox"/>	
NOISE PROTECTION	<input checked="" type="checkbox"/>	<u>when operating Gasprobe</u>
OTHER		

### RESPIRATORY:

TYPE

APR	_____	_____	_____
APR CARTRIDGE	_____	_____	_____
ESCAPE MASK	_____	_____	_____
OTHER	_____	_____	_____

### CLOTHING:

TYVEK COVERALL	_____	_____
SARANEX COVERALL	_____	_____
COTTON COVERALL	_____	_____
SPLASH SUIT	_____	_____
OVERBOOTS	_____	_____
RAIN GEAR	_____	_____
OTHER	_____	_____

### MISCELLANEOUS:

_____	_____	_____
_____	_____	_____
_____	_____	_____

### LEVEL A OR B NEEDED?

### Contractor or ESD?

### Areas/tasks where needed

LEVEL A \_\_\_\_\_  
LEVEL B \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### AIR MONITORING TYPE

### Conducted by:

### Areas/tasks where needed

TOXIC \_\_\_\_\_  
EXPLOSIVE/OXYGEN \_\_\_\_\_  
RADIATION \_\_\_\_\_  
NONE \_\_\_\_\_

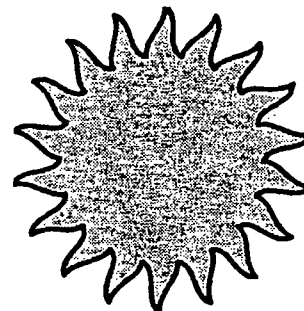
FACILITY \_\_\_\_\_  
ESD \_\_\_\_\_  
CONTRACTOR \_\_\_\_\_  
OTHER \_\_\_\_\_

\_\_\_\_\_

## Section 5 – Heat And Cold Exposure

### I. Heat Stress

Heat stress can occur very rapidly—within as little as **15 minutes**—and can pose as great a danger to you as chemical exposure, electrical shock, or other hazards. Early stages of heat stress can cause rashes, cramps, and drowsiness, which threatens the safety of you and your co-workers. Continued heat stress can lead to heat stroke and death.



#### A. Heat Stress And Personal Protective Equipment (PPE)



Heat stress is a major health hazard when wearing PPE because the same protective materials that shield your body from chemical exposure also limit your body's ability to cool itself. Thus, the use of PPE needs to be considered in the evaluation of the total hazards that you are exposed to.

#### B. Monitoring For Heat Stress

All workers, including those not wearing PPE, should be monitored for heat stress. You should be monitored before each work cycle throughout each break. Some general guidelines include:

- ☐ For workers wearing normal clothing, monitor for signs of heat stress and follow established work/rest schedules.
- ☐ For workers wearing semipermeable or impermeable clothing (i.e., plastic), monitor when the temperature in the work area is above 70°F (21°C). Below 70°F, monitoring is considered on a case-by-case basis.

The following table suggests how often you should be monitored for heat stress based on the temperature and your clothing or PPE.

<b>Suggested Frequency Of Monitoring For Heat Stress</b>		
<b>Adjusted Temperature</b>	<b>Normal Work Clothing (After each)</b>	<b>Impermeable Clothing (After each)</b>
90°F or above	45 minutes	15 minutes
87.5° - 90°F	60 minutes	30 minutes
82.5° - 87.5°F	90 minutes	60 minutes
77.5° - 82.5°F	120 minutes	90 minutes
72.5° - 77.5°F	150 minutes	120 minutes
Adjusted temperature = measured air temperature (°F) + (13 x % sunshine) Estimate percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow. (100 percent sunshine = no cloud cover and a sharp, distinct shadow; 0 percent sunshine = no shadows.)		

To monitor a worker for heat stress, check the heart rate and body temperature, as follows:

- Heart rate.** Count the (radial) pulse for 30 seconds at the beginning of a rest period. If the heart rate exceeds 110 beats per minute, shorten the next work cycle by one-third and keep the rest period the same. If the heart rate still exceeds 110 beats per minute at the beginning of the next rest period, shorten the following work cycle by one-third.
- Oral temperature.** Use a clinical thermometer (3 minutes under the tongue) or similar device to measure oral temperature at the end of the work period (before drinking). If oral temperature exceeds 99.6°F, shorten the next work cycle by one-third without changing the rest period. If oral temperature still exceeds 99.6°F at the beginning of the next rest period, shorten the following work cycle by one-third.

**Warning:**

**Do not wear semipermeable or impermeable suits if your body temperature exceeds 100.6°F.**

## C. Preventing Heat Stress

To prevent heat stress:

- ☐ Adjust work and rest schedules as needed.
- ☐ Seek shelter or shade during rest breaks.
- ☐ Drink plenty of fluids to replace those you lose from sweating.
- ☐ Maintain physical fitness, increasing your tolerance to high temperatures.
- ☐ Wear cooling devices such as cooling jackets, vests, or suits. Field showers and hose-down areas are also effective cooling devices.
- ☐ Know the signs and symptoms of heat stress (e.g., muscle spasms, dizziness, lack of perspiration), and how to treat it.

**Heat Index.** The chart below shows how hot the heat-humidity combination makes it feel. It's based upon shady, light wind conditions. Exposure to full sunshine can increase the heat index by as much as 15° F.

Air Temp (° F)	Relative Humidity (%)								
	90	80	70	60	50	40	30	20	10
75	80	77	76	75	74	73	72	71	70
80	88	86	84	83	82	80	79	77	76
85	101	97	93	90	88	86	84	82	80
90	119	112	106	101	96	92	89	87	84
95	142	131	122	114	107	101	96	92	89
100	169	154	141	130	120	111	104	99	94
105	200	181	163	148	135	123	114	106	100
110	236	211	189	169	152	137	124	114	106

	Caution
	Extreme caution
	Danger
	Extreme danger

## D. Signs And Symptoms Of Heat Stress

There are three types of heat stress—heat cramps, heat stroke and heat exhaustion. Signs and symptoms of each are described below:

Heat Stress Signs & Symptoms			
	Heat Cramps (least serious)	Heat Exhaustion (serious)	Heat Stroke (most serious)
<b>Cause</b>	Salt and water loss	Salt and water loss	Failure of heat-regulating mechanisms
<b>Muscle cramps</b>	Yes	No	No
<b>Skin</b>	Normal, moist-warm	Cold, clammy	Hot, dry
<b>Temperature</b>	Normal	Normal or slightly elevated	> 105°F
<b>Loss of consciousness</b>	Seldom	Sometimes	Usually
<b>Perspiration</b>	Heavy	Heavy	Little or none
<b>Pulse</b>	Fast	Fast, weak	Rapid, rebounding
<b>Other</b>	Cramps usually occur in arms, legs, or abdomen	Headache, dizziness, nausea and vomiting	Weakness, dizziness, and headache

## E. First Aid For Heat Stress

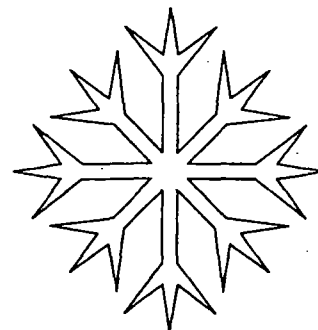
You must deal with heat exhaustion and heat stroke quickly or the victim can be in serious trouble. The following table provides the initial first aid for heat stress:

First Aid For Heat Stress		
Heat Cramps (least serious)	Heat Exhaustion (serious)	Heat Stroke (most serious)
<ul style="list-style-type: none"> <li>• Move to a cool place</li> <li>• Rest affected muscle</li> <li>• Give a lot of cool water</li> <li>• Massage or stretch affected area</li> </ul>	<ul style="list-style-type: none"> <li>• Move to a cool place</li> <li>• Elevate legs</li> <li>• Cool victim</li> <li>• If no improvement in 30 minutes, seek medical attention</li> </ul>	<ul style="list-style-type: none"> <li>• Move to cool place</li> <li>• Elevate head and shoulders</li> <li>• Immediately cool victim</li> <li>• Immediately transport to medical facility</li> <li>• Monitor ABCs (airway, breathing, and circulation)</li> <li>• <b>Heat stroke is life-threatening!!!</b></li> </ul>

## II. Cold Exposure

Exposure to cold temperatures can cause frostbite and hypothermia as well as impair your ability to work.

**Extremely low temperatures are not necessary to suffer cold exposure**—a strong wind combined with a cold temperature can chill your body to the point where frostbite and hypothermia are a risk. Maintaining body temperature and recognizing early signs and symptoms can help prevent illness and injury due to cold exposure.



### A. PPE And Cold Exposure

The correct PPE depends on the specific cold stress situation. It is important to preserve the air space between the body and the outer layer of clothing in order to retain body heat. The more air pockets each layer of clothing has, the better the insulation. However, the insulating effect is negated if the clothing interferes with the evaporation of sweat, or if the skin or clothing is wet.

Always protect your feet, hands, head, and face. Your hands and feet are farthest from your heart, so they lose heat faster than any other part of your body. Keeping your head covered is also important, because as much as 40 percent of your body heat can be lost when your head is exposed.

Wear several layers of clothing instead of a single heavy outer garment. In addition to providing better insulation, layers of clothing can be removed if you get

**MAPBLAST!**

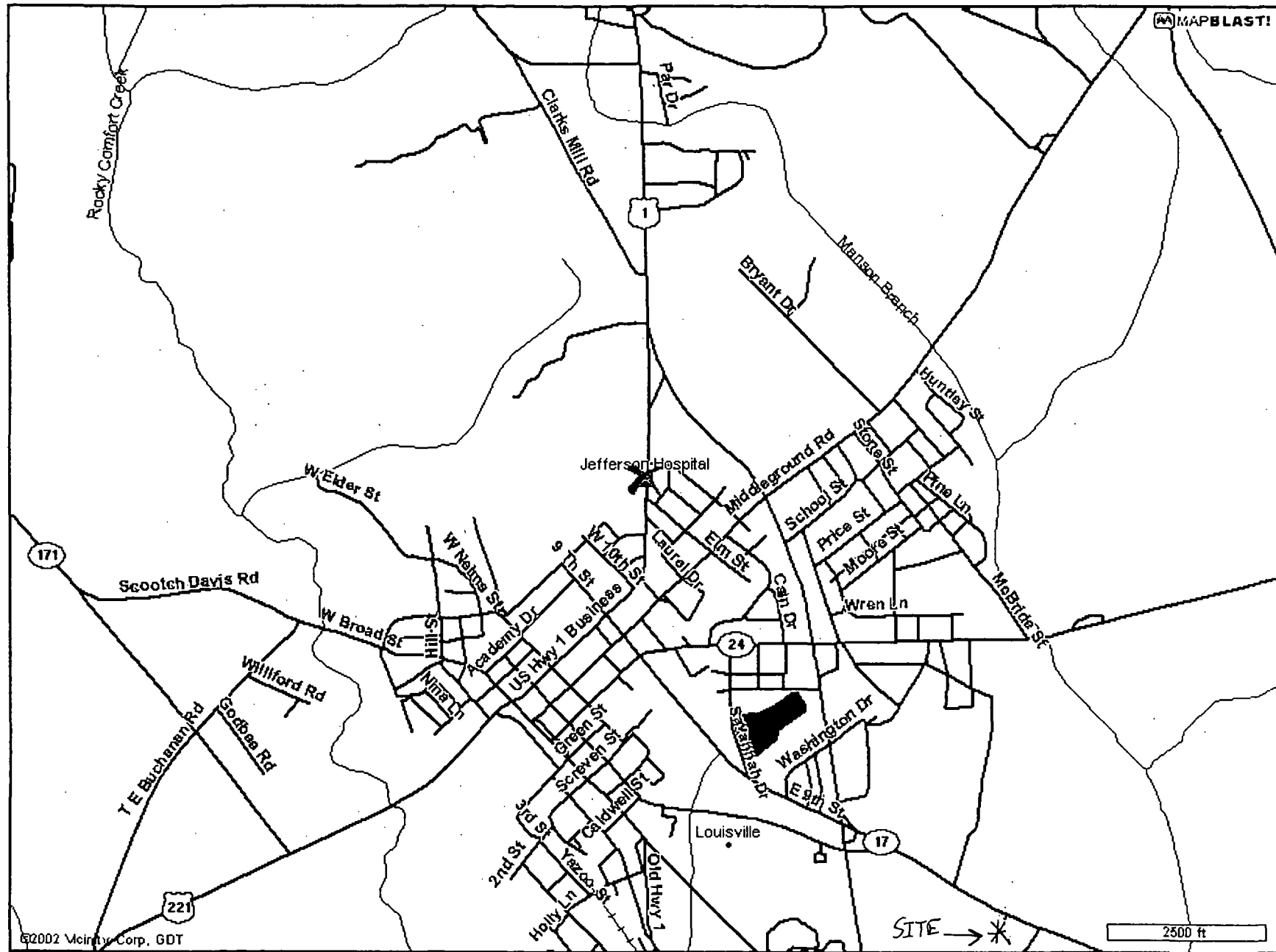
Everyone needs a little direction in life

1067 Peachtree St  
Louisville, GA 30434-1558

[ Icon Latitude: 33.0111071, Longitude: -82.404412 ]

*Map to Hospital from Site*





[Icon Latitude: 33.0111071, Longitude: -82.404412]

*Map to Hospital from Site*

# APPENDIX L

# Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, SE, Suite 1154, Atlanta, Georgia 30334

Lonice C. Barrett, Commissioner

Environmental Protection Division

Harold F. Reheis, Director

404/656-2833

August 30, 2002

**CERTIFIED MAIL**

**RETURN RECEIPT REQUESTED**

Mr. Steve Parke  
Vice President  
Vantran Industries Inc.  
Post Office Box 20128  
Waco, Texas 76702-0128

RE: Analytical Results  
Louisville, Georgia Facility

Dear Mr. Parke:

Enclosed you will find an analytical package containing the analytical results of the July 15-17, 2002 sampling event conducted by the Georgia Environmental Protection Division (EPD) at your Louisville, Georgia facility. The analytical package also includes sample location maps, chain of custody records and QA/QC batch reports. The EPD will utilize the analytical results (and other information) to evaluate your facility under the Hazardous Ranking System found in the National Oil and Hazardous Substances Pollution Contingency Plan (i.e., 40 CFR 300 – Appendix A).

Please note that the analytical results confirm the presence of PCBs (and other hazardous substances) in soil and sediment samples collected from your facility (i.e., Tax Parcel No. 91-55). Moreover, PCBs were detected in a single sediment sample collected from a drainage ditch located on contiguous private property immediately west of, and topographically downgradient of, your facility (i.e., Tax Parcel No. 91-80). This contiguous property is owned by Mr. Burney Thompson of Wrens, Georgia.

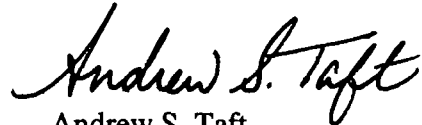
In a separate matter, the enclosed analytical results confirm the presence of PCBs in on-site soil and sediment at concentrations exceeding the level set forth in Appendix I of the Georgia Rules for Hazardous Site Response (GRHSR). Accordingly, you or a party you represent may be subject to the release notification requirements set forth in Section 391-3-19-.04(4) of the GRHSR. Enclosed is a notification package which includes a copy of the GRHSR, a suggested format for submitting notifications and reports, a fact sheet on the notification process and a guidance manual for the Reportable Quantities Screening Method.

Please note that property owners who are required to notify under Section 391-3-19-.04(4) of the GRHSR must do so within thirty (30) days of the date of discovery of the release. Such notification should be submitted to Mr. Tim Cash (Program Manager) at the following address:

Georgia Environmental Protection Division  
Hazardous Site Response Program  
2 Martin Luther King Jr., Drive, SE, Suite 1462  
Atlanta, Georgia 30334

Should you have any questions regarding the analytical results or your facility evaluation under the Hazardous Ranking System, please contact me at (404) 656-2833. Questions related to the notification process should be directed to the Hazardous Sites Response Program at (404) 657-8600.

Sincerely,



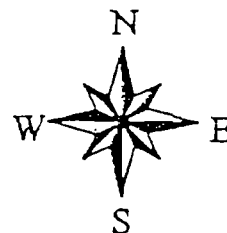
Andrew S. Taft  
CERCLA Pre-Remedial Coordinator  
Hazardous Waste Management Branch

Enclosures:

1. Analytical Package
2. Notification Package

cc: Jim Ussery, EPD  
Tim Cash, EPD

File: CERCLA Pre-Remedial File (FY-2002)  
s:\rdrive\andy\pa-si\08-30-02.ltr.doc



1" = 100'

GA HWY 17 (Midville Rd.)

On-Site Bldg.

HW9122

HW9121

HW9120  
HW9134

HW9135  
HW9119

HW9118

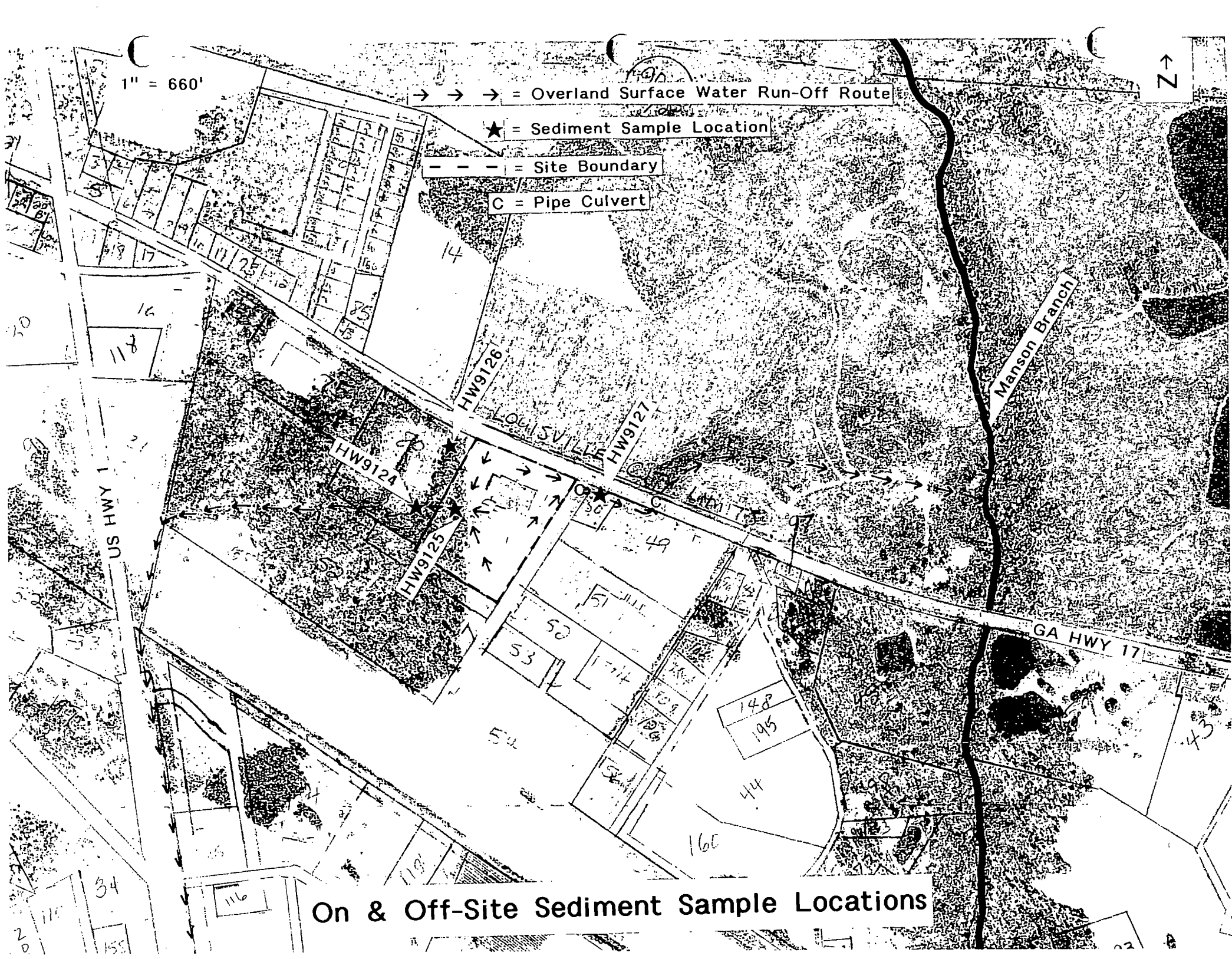
Airport Rd.

HW9117

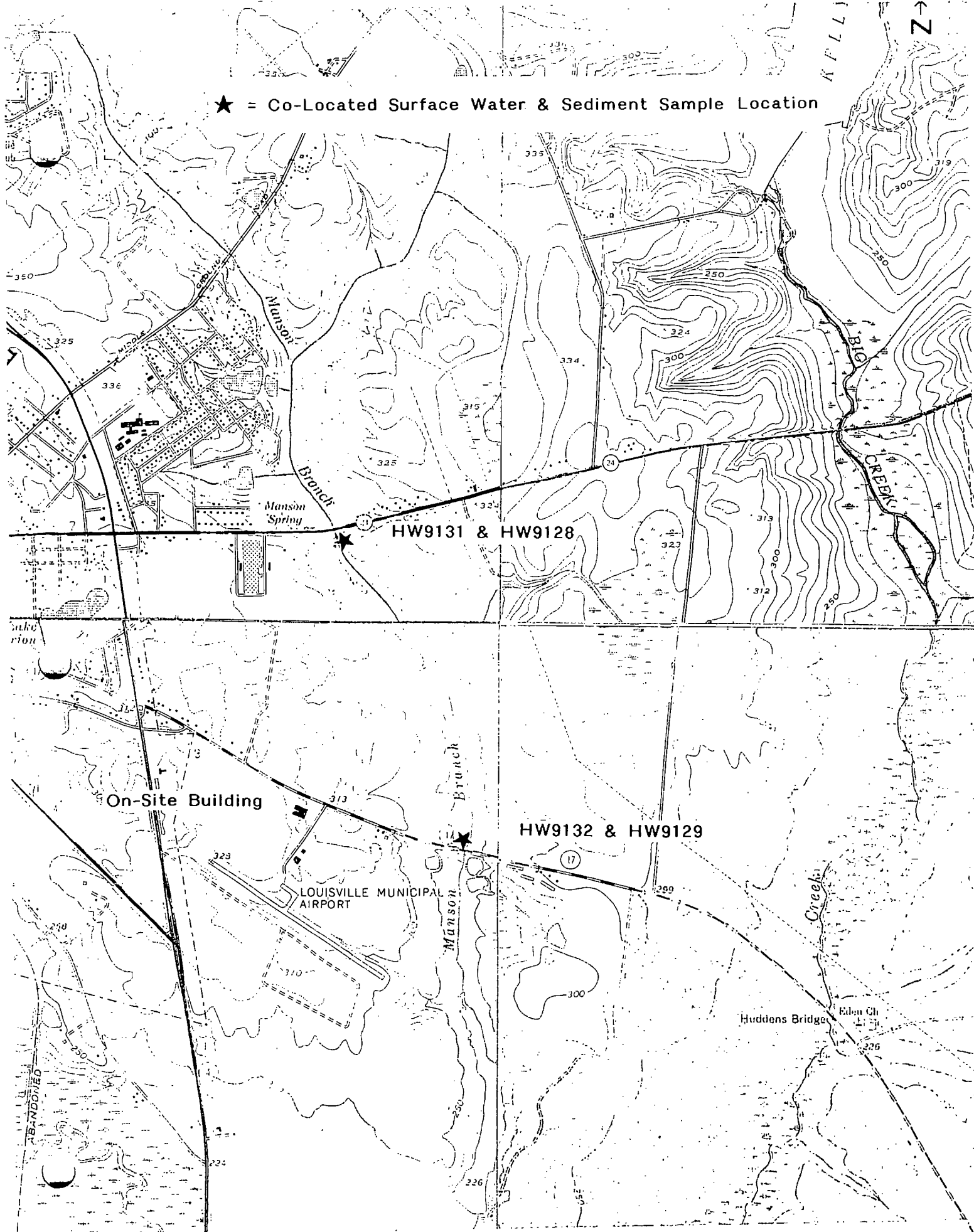
★ = Surface Soil Sample Location

\* = Subsurface Soil Sample Location

## On-Site Soil Sample Locations



★ = Co-Located Surface Water & Sediment Sample Location



**Manson Branch Surface Water & Sediment Sample Locations**

# Chain of Custody Record

**Georgia Department Of Natural Resources**  
**Environmental Protection Division Laboratories**  
 455 14<sup>th</sup> Street NW  
 Atlanta, GA 30318

Matrix Type Definition: S=Soil or Semi Solid  
 W=Water (Aqueous), A=Air, NA=Non Aqueous Liq. (Oil, Solvent, Etc.)

Facility: <u>Vantoon Electric</u>	Location: <u>Louisville, Ga.</u>	Analysis Requested			
Sampler Name: Address: <u>Maurice L Lucas Papetti HWMB - 1154 East</u>	Phone: <u>(404) 656-2833</u> FAX:	VOCs	Metals	Semi-Volatiles	

Sample ID		Sample Identification (Include unique sample identifier such as sample log numbers)	Matrix Type				Number of Containers Submitted			
Date	Time		S	W	A	NA				
7/15/02	1145	9117 Bkgd. Surface Soil	✓				5	1	4	
		9137 Trip Blank		✓			1			
7/15/02	1200	9120	✓				5	1	4	
7/15/02		9123	✓				5	1	4	
7/15/02	1330	9119	✓				5	1	4	
7/15/02	1345	9121	✓				5	1	4	
7/15/02	1415	9120	✓				5	1	4	

Relinquished By (Signature) 	Date 7/15/02	Time 1:20	Relinquished by (Signature) <u>Deanne Whittaker</u>	Date 7/16/02	Time 1:20	Relinquished by (Signature)	Date	Time
Received By (Signature) <u>Deanne Whittaker</u>	Date 7/15/02	Time 18:00	Received By (Signature)	Date	Time	Received By (Signature)	Date	Time

## Laboratory Use Only

Received For Laboratory By (Signature) <u>Trish Bailey</u>	Date 7-16-02	Time 1:20	Custody Intact <input checked="" type="radio"/> Yes <input type="radio"/> No	Custody Seal No	Laboratory Remarks: <u>REC. ON ICE</u>
---	-----------------	--------------	---	-----------------	---



# Chain of Custody Record

## Georgia Department Of Natural Resources

### Environmental Protection Division Laboratories

455 14<sup>th</sup> Street NW

Atlanta, GA 30318

Matrix Type Definition: S=Soil or Semi Solid

W=Water (Aqueous), A=Air, NA=Non Aqueous Liq. (Oil, Solvent, Etc.)

Facility: <u>Vantec Electric</u>			Location: <u>Louville</u>			Analyses Requested <div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Semi Vol Organics</div> </div>					
Sampler Name: <u>Maurice Carter</u> Address: <u>Loosey Papey</u> <u>HUMB 1154E</u>			Phone: <u>404 656-2833</u> FAX: _____								

Sample		Sample Identification (Include unique sample identifier such as sample log numbers)	Matrix Type				Number of Containers Submitted				
Date	Time		S	W	A	NA					
7/15	1440	9127	✓				5	1	4		
7/15	1530	9118	✓				5	1	4		

Relinquished By (Signature) <u>[Signature]</u>	Date 7/10/02	Time 1800	Relinquished by (Signature) <u>[Signature]</u>	Date 7/14/02	Time 1720	Relinquished by (Signature)	Date	Time
Received By (Signature) <u>[Signature]</u>	Date 7/10/02	Time 18:00	Received By (Signature)	Date	Time	Received By (Signature)	Date	Time

#### Laboratory Use Only

Received For Laboratory By (Signature) <u>[Signature]</u>	Date 7-16-02	Time 1:20	Custody Intact <u>Yes</u> No	Custody Seal No	Laboratory Remarks: <u>REC. ON ICE</u>
--	-----------------	--------------	---------------------------------	-----------------	---

# Chain of Custody Record

## Georgia Department Of Natural Resources

Environmental Protection Division Laboratories

455 14<sup>th</sup> Street NW

Atlanta, GA 30318

Matrix Type Definition: S=Soil or Semi Solid

W=Water (Aqueous), A=Air, NA=Non Aqueous Liq. (Oil, Solvent, Etc.)

Facility: <b>VANTRAN ELECTRIC CORP.</b>	Location: <b>LOUISVILLE, GA</b>	Analysis Requested				
Sampler Name: <b>BOB PIERCE</b> Address: <b>STACY BOX</b> <b>HWMB-1154 EAST</b>	Phone: <b>(404) 656-2833</b> FAX:	VOCs	Semi-VOL	PEST/PCBS	METALS	CN

Sample		Sample Identification (Include unique sample identifier such as sample log numbers)	Matrix Type				Number of Containers Submitted							
Date	Time		S	W	A	NA								
7/15/02	2:00 PM	HW9135 - subsurface soil	✓				5	2	1	1	1			
7/15/02	3:00 PM	HW9134 - subsurface soil	✓				5	2	1	1	1			

Relinquished By (Signature)	Date	Time	Relinquished by (Signature)	Date	Time	Relinquished by (Signature)	Date	Time
	7/15/02	1:00		7/16/02	1:20			
Received By (Signature)	Date	Time	Received By (Signature)	Date	Time	Received By (Signature)	Date	Time
	7/16/02	1:20						

### Laboratory Use Only

Received For Laboratory By (Signature)	Date	Time	Custody Intact	Custody Seal No	Laboratory Remarks:
	7-16-02	1:20	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		REC. ON ICE

# Chain of Custody Record

## Georgia Department Of Natural Resources

### Environmental Protection Division Laboratories

455 14<sup>th</sup> Street NW

Atlanta, GA 30318

Matrix Type Definition: S=Soil or Semi Solid

W=Water (Aqueous), A=Air, NA=Non Aqueous Liq. (Oil, Solvent, Etc.)

Facility: <i>Vantran Electric Corp.</i>			Location: <i>Louisville, Ga</i>			Analysis Requested						
Sampler Name: Address: <i>Andrew Taft Larry Papetti</i>			Phone: <i>(404) 656-2833</i>			VOCs	Semi-Vol.	Pest./PCBs	METALS	CN		
			FAX:									

Sample		Sample Identification (Include unique sample identifier such as sample log numbers)	Matrix Type				Number of Containers Submitted						
Date	Time		S	W	A	NA							
<i>7/16/02</i>	<i>11:52 AM</i>	<i>HW9128</i>	✓				<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>		
<i>7/16/02</i>	<i>9:45 AM</i>	<i>HW9129</i>	✓				<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>		
<i>7/16/02</i>	<i>10:10 AM</i>	<i>HW9130 (duplicate of HW9129)</i>	✓				<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>		
<i>7/16/02</i>	<i>11:45 AM</i>	<i>HW9131</i>		✓			<i>3</i>	<i>3</i>	<i>3</i>	<i>1</i>	<i>1</i>		
<i>7/16/02</i>	<i>10:10 AM</i>	<i>HW9132</i>		✓			<i>3</i>	<i>3</i>	<i>3</i>	<i>1</i>	<i>1</i>		
<i>7/16/02</i>	<i>11:15 AM</i>	<i>HW9133 (duplicate of HW9132)</i>		✓			<i>3</i>	<i>3</i>	<i>3</i>	<i>1</i>	<i>1</i>		
		<i>HW9116 (Trip Blank)</i>		✓			<i>1</i>						

Relinquished By (Signature)	Date	Time	Relinquished By (Signature)	Date	Time	Relinquished by (Signature)	Date	Time
			<i>[Signature]</i>	<i>7/17/02</i>	<i>11:45</i>			
Received By (Signature)	Date	Time	Received By (Signature)	Date	Time	Received By (Signature)	Date	Time

#### Laboratory Use Only

Received For Laboratory By (Signature) <i>Robert Price</i>	Date <i>7/17/02</i>	Time <i>11:45</i>	Custody Intact (Yes) No	Custody Seal No	Laboratory Remarks: <i>Rec'd on ICE</i>
---	------------------------	----------------------	----------------------------	-----------------	--

# Chain of Custody Record

## Georgia Department Of Natural Resources

Environmental Protection Division Laboratories

455 14<sup>th</sup> Street NW

Atlanta, GA 30318

Matrix Type Definition: S=Soil or Semi Solid

W=Water (Aqueous), A=Air, NA=Non Aqueous Liq. (Oil, Solvent, Etc.)

Facility: <i>Vantian Electric Corp</i>			Location: <i>Louisville, Ga</i>			Analysis Requested					
Sampler Name: <i>STACY BOX</i>			Phone: <i>(404) 656-2833</i>			VOCs	Semi-Vol.	Pest/PCBs	METALS	CN	
Address: <i>MAURI CENTIS</i> <i>2 MLK Drive Suite 1154</i> <i>ATLANTA, GA EAST TOWER</i>			FAX:								
Sample		Sample Identification (Include unique sample identifier such as sample log numbers)	Matrix Type				Number of Containers Submitted				
Date	Time		S	W	A	NA					
<i>7/16/02</i>	<i>10:15am</i>	<i>HW9124</i>	<input checked="" type="checkbox"/>				<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>
<i>7/16/02</i>	<i>9:30am</i>	<i>HW9125</i>	<input checked="" type="checkbox"/>				<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>
<i>7/16/02</i>	<i>8:30am</i>	<i>HW9126</i>	<input checked="" type="checkbox"/>				<i>5</i>	<i>2</i>	<i>1</i>	<i>1</i>	<i>1</i>
Relinquished By (Signature)		Date	Time	Relinquished by (Signature)		Date	Time	Relinquished by (Signature)		Date	Time
<i>Stacy Box</i>		<i>7/16/02</i>	<i>12:30 PM</i>	<i>[Signature]</i>		<i>7/16/02</i>	<i>12:30 PM</i>	<i>[Signature]</i>			
Received By (Signature)		Date	Time	Received By (Signature)		Date	Time	Received By (Signature)		Date	Time
<i>[Signature]</i>		<i>7/16/02</i>	<i>12:33 PM</i>	<i>[Signature]</i>				<i>[Signature]</i>			

### Laboratory Use Only

Received For Laboratory By (Signature)	Date	Time	Custody Intact	Custody Seal No	Laboratory Remarks:
<i>Robert Price</i>	<i>7/17/02</i>	<i>11:45</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>Rec'd on fee</i>

HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

UG 26

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

E.P.D Laboratory

Collection Date:

7-9-02

LAB No. \_\_\_\_\_

Date Submitted To Lab:

HWMB LOG NUMBER:

HW9137

File a separate Request Sheet for each sample point)



Sample ID AD71063

Location: HWMB

Description: VANTRAN ELECTRIC CORP./HW9137

Collector: EPD LABORATORY

Sample ID: AD71063

T. Blank

Analysis Needed By:

Routine ☒

Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste

Ground Water

Solid/Sediment

Surface Water

Sludge

Drinking Water Well

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

TRIP BLANK

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions: \_\_\_\_\_

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles

(Acid & Base/Neutral)

Volatiles

Pesticides

Herbicides

Organophosphorous Pesticides

PCB

BETX

Total Petroleum Hydrocarbon

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan

(Ag,As,Ba,Cd,Cr,NI,Pb,Se)

Mercury

Metals Special Requests: \_\_\_\_\_

RYANIDE

HALF GALLONS / CYANIDE

NUTRIENT JARS

ECO 18 OZ JARS

METAL 16 OZ JARS

AMBER BOTTLES

100 VIALS BIK

SULFIDES / PHENOLS

OIL AND GREASE

3. TCLP ORGANICS

Volatiles

Semi-Volatiles (Acid & Base/Neutral)

Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides

Herbicides

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,NI,Pb,Se)

Mercury

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back): \_\_\_\_\_

Reviewed By: (HWMB): \_\_\_\_\_

Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By: (EPD Lab): \_\_\_\_\_

Date (EPD Lab): \_\_\_\_\_

TB  
7-16-02

TNB

RECPT TEMP

0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

TO: Georgia Env Protection Division Hazardous Waste Mgmt Branch 205 Butler St SE Suite 1154E Atlanta, GA 30334		Date Collected: 7/9/2002 Time Collected: 0:00 Sample Collector: EPD LABORATO Chlorination: Sample Type:
Sample ID: AD71063 Facility Name: Vantran Electric /Hw9137 Tblk Site ID: HWMB Location ID: Location Descr: HW9137 BLK		Received By: TNB Date Received: 7/16/2002 Time Received: 1:40 PM Project: HW Reporting Date: 8/21/2002 Received Temperature: 0.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
<b>8260 in Water QC Batch 50624</b>								
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	50	ug/L		LCS 7/17/2002	43 to 60
Toluene-d8(Surrogate QC Std.)			EPA 8260	50	ug/L		LCS 7/17/2002	40 to 60
P-fluorobenzene(Surrogate QC Std.)			EPA 8260	46	ug/L		LCS 7/17/2002	40 to 54
1,1,1-trichloroethane-d4(Surrogate QC Std.)			EPA 8260	50	ug/L		LCS 7/17/2002	35 to 65
Dichlorodifluoromethane	34668		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
Chloromethane	34418		EPA 8260	Not Detected	ug/L	10	LCS 7/17/2002	
Bromomethane	34413		EPA 8260	Not Detected	ug/L	10	LCS 7/17/2002	
Vinyl Chloride	39175		EPA 8260	Not Detected	ug/L	2	LCS 7/17/2002	
Chloroethane	34311		EPA 8260	Not Detected	ug/L	10	LCS 7/17/2002	
Methylene Chloride	34423		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
Trichlorofluoromethane	34488		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
Acetone	81552		EPA 8260	Not Detected	ug/L	100	LCS 7/17/2002	
Dibromomethane	77596		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
trans-1,2-Dichloroethene	34546		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
Iodomethane	77424		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
Carbon Disulfide	77041		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
1,1-Dichloroethene	34501		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
1,1-Dichloroethane	34496		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
Chloroform	32106		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	
1,2-Dichloroethane	32103		EPA 8260	Not Detected	ug/L	5	LCS 7/17/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 n: parts per million  
 b: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
anone	81595		EPA 8260	Not Detected	ug/L	100	LCS	7/17/2002	
1,1,1-Trichloroethane	34506		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Carbon Tetrachloride	32102		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Vinyl Acetate	77057		EPA 8260	Not Detected	ug/L	50	LCS	7/17/2002	
Bromodichloromethane	32101		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,2-Dichloropropane	34541		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Trichloroethene	39180		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Benzene	34030		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
2-Chloroethyl vinyl ether	34576		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
cis-1,3-Dichloropropene	34704		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
trans-1,3-Dichloropropene	34699		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Dibromochloromethane	32105		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,1,2-Trichloroethane	34511		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Bromoform	32104		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,2,3-Trichloropropane	77443		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
4-Methyl-2-Pentanone	81596		EPA 8260	Not Detected	ug/L	50	LCS	7/17/2002	
2-Hexanone	77103		EPA 8260	Not Detected	ug/L	50	LCS	7/17/2002	
Tetrachloroethene	34475		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,1,2,2-Tetrachloroethane	34516		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Toluene	34010		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,2-Dibromoethane	77651		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Chlorobenzene	34301		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Ethylbenzene	34371		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,1,1,2-Tetrachloroethane	77562		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Styrene	77128		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
p-Xylene	77135		EPA 8260	Not Detected	ug/L	10	LCS	7/17/2002	
o-Xylene	77135		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Bromobenzene	81555		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
2-Chlorotoluene	77275		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,2,4-Trimethylbenzene	77222		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,3-Dichlorobenzene	34566		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,4-Dichlorobenzene	34571		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,2-Dichlorobenzene	34536		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,2-Dibromo-3-chloropropane			EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,2,4-Trichlorobenzene	34551		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Hexachlorobutadiene	38702		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
Naphthalene	34696		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE			UNITS	RL	ANALYST	DATE	
hexane			EPA 8260	Not Detected	ug/L	10	LCS	7/17/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/L	10	LCS	7/17/2002	
1,1,2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/L	10	LCS	7/17/2002	
Methyl acetate			EPA 8260	Not Detected	ug/L	10	LCS	7/17/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/L	5	LCS	7/17/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

2008 7 6

Facility Name/Location: VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone: ANDREW TAFT (404) 656-2833

Collection Date: WEEK OF 7/15/2008 LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER: HW 9135

File a separate Request Sheet for each sample point)



Sample ID AD71061

Location: HWMB

Description: VANTRAN ELECTRIC CORP. / HW9135

Collector: A. TAFT

Sample ID: AD71061

Analysis Needed By: Routine ☒ Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_  
Ground Water \_\_\_\_\_

Soil/Sediment ☒  
Surface Water \_\_\_\_\_

Sludge \_\_\_\_\_  
Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample including Source and Known Properties (e.g. pH, concentration);

Soil core from area behind building

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒  
Volatiles ☒  
Pesticides ☒  
Herbicides ☒  
Organophosphorous Pesticides ☒  
PCB ☒  
BETX ☒  
Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒  
(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒  
Mercury ☒  
Metals Special Requests: ☒

CYANIDE

4 OZ. JARS

8 OZ. JARS

16 OZ. JARS plastic

4 Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_  
Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_  
Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_  
Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_  
Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_  
Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Reviewed By: (EPD Lab): \_\_\_\_\_  
Date (EPD Lab): \_\_\_\_\_

TB  
7-16-02

TNB

RECPT TEMP

0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Division</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/15/2002 <b>Time Collected:</b> 14:00 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71061 <b>Facility Name:</b> Vantran Electric Corp./ Hw9135 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9135	<b>Received By:</b> TNB <b>Date Received:</b> 7/16/2002 <b>Time Received:</b> 1:40 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 ° C	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>8260 Volatiles in Soil/Sed. QC Batch 50679</b>									
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	53	ug/kg (dw)	0.00	KDD	7/22/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	50	ug/kg (dw)	0.00	KDD	7/22/2002	39 to 68
Bromofluorobenzene(Surrogate QC Std.)			EPA 8260	49	ug/kg (dw)	0.00	KDD	7/22/2002	25 to 60
1,1-Dichloroethane-d4(Surrogate QC Std.)			EPA 8260	50	ug/kg (dw)	0.00	KDD	7/22/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	2.2	KDD	7/22/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	110	KDD	7/22/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Chloroform	34318		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 mg/g: micrograms/gram  
 ppm: parts per million  
 ppb: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
	CODE	NOTE					ANALYST	DATE	
anone	75078		EPA 8260	Not Detected	ug/kg (dw)	110	KDD	7/22/2002	
1,1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	54	KDD	7/22/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	54	KDD	7/22/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	54	KDD	7/22/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Toluene	34483		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Naphthalene	34445		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
1,2,3-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/22/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/22/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/22/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/22/2002	
<b>8270 Semi-Vol in Soil/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	75	ug/kg (dw)	0.00	PS 7/29/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	78	ug/kg (dw)	0.00	PS 7/29/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	79	ug/kg (dw)	0.00	PS 7/29/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	81	ug/kg (dw)	0.00	PS 7/29/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	83	ug/kg (dw)	0.00	PS 7/29/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	81	ug/kg (dw)	0.00	PS 7/29/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS 7/29/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,2,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
n: parts per million  
p: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
chlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4,6-Dinitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
n-Nitrosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1-phenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/29/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
bis(2-Ethylhexyl)phthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Di-n-octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Dibenz(a,h)acridine			EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	28000 PS	7/29/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	56000 PS	7/29/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	22000 PS	7/29/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	56000 PS	7/29/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	28000 PS	7/29/2002	
p,p'-DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Endrin Aldehyde			EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	10600	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	33000000	ug/kg (dw)	D 200000	LA	7/23/2002
Arsenic	01003	6010 B	10000	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	54000	ug/kg (dw)	1000	LA	7/23/2002
Copper	01043	6010 B	28000	ug/kg (dw)	2500	LA	7/23/2002
Iron	01170	6010 B	51000000	ug/kg (dw)	D 100000	LA	7/23/2002
Potassium	00938	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
Selenium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	38000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	7900	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	19000	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	130000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	22000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50621

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/22/2002	
---------	-----------	--------------	------------	-----	----	-----------	--

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	16.2	ug/kg (dw)		PM	8/8/2002	10.0 to 30.0
DCB surr std	EPA 8081A	40.0	ug/kg (dw)		PM	8/8/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	2.0	PM	8/8/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	3.0	PM	8/8/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	4.5	PM	8/8/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	1.0	PM	8/8/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/8/2002	
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)	3.0	PM	8/8/2002	
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	6.5	PM	8/8/2002	
DIELDRIN	EPA 8081A	Not Detected	ug/kg (dw)	2.0	PM	8/8/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	8.0	PM	8/8/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	4.0	PM	8/8/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	130	PM	8/8/2002	
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	1.0	PM	8/8/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/8/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
gamma-CHLORDANE	EPA 8081A	13	ug/kg (dw)	5.0	PM	8/8/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std	EPA 8082	Not Detected	ug/kg (dw)		PM	8/2/2002	10.0 to 30.0
DCBP surr std	EPA 8082	Not Detected	ug/kg (dw)		PM	8/2/2002	20.0 to 60.0
PCB-1016	EPA 8082	Not Detected	ug/kg (dw)	J	33	PM	8/2/2002
PCB-1221	EPA 8082	Not Detected	ug/kg (dw)	J	33	PM	8/2/2002
PCB-1232	EPA 8082	Not Detected	ug/kg (dw)	J	33	PM	8/2/2002
PCB-1242	EPA 8082	Not Detected	ug/kg (dw)	J	33	PM	8/2/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
ug/kg: milligrams/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
1248			EPA 8082	Not Detected	ug/kg (dw)	J 33	PM	8/2/2002	
1254			EPA 8082	Not Detected	ug/kg (dw)	J 33	PM	8/2/2002	
PCB-1260			EPA 8082	Not Detected	ug/kg (dw)	J 33	PM	8/2/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	J 33	PM	8/2/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/11/02 for this compound with all QC in compliance.

COMMENTS: \$8082S - Surrogates TCMX and DCB were "Not Detected". - "J" Data is estimated due to discrepancies between the surrogate recoveries for the pesticide (8081A) and PCB (8082) extractions. 1-081402-580

COMMENTS: \$8270S - Reporting limits raised due to elevated concentrations of non-target compounds.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

19 2 6 2002

Facility Name/Location: VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone: ANDREW S. TAFT

Collection Date: WEEK OF 7/15/2002 LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER: HW9134  
File a separate Request Sheet for each sample point)



Sample ID AD71062  
Location: HWMB  
Description: VANTRAN ELECTRIC CORP./HW9134  
Collector: A. TAFT  
Sample ID: AD71062

Analysis Needed By: Routine ☒ Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_  
Ground Water \_\_\_\_\_  
Soil/Sediment ☒  
Surface Water \_\_\_\_\_  
Sludge \_\_\_\_\_  
Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

Soil core from area behind building

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒  
Volatiles ☒  
Pesticides ☒  
Herbicides ☒  
Organophosphorous Pesticides ☒  
PCB ☒  
BETX ☒  
Total Petroleum Hydrocarbon ☒

2. TOTAL METALS

ICP Metals Scan ☒  
(Ag,As,Ba,Cd,Cr,NI,Pb,Se) ☒  
Mercury ☒  
Metals Special Requests: ☒  
CYANIDE

Organics Special Requests: 4 16 OZ. JARS  
4 8 OZ. JARS  
4 16 OZ. JARS plastic  
4 Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_  
Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_  
Additional Specific Organics for TCLP: \_\_\_\_\_  
Pesticides \_\_\_\_\_  
Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,NI,Pb,Se) \_\_\_\_\_  
Mercury \_\_\_\_\_  
Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_  
Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Reviewed By: (EPD Lab): TB  
Date: (EPD Lab): 7-16-02



RECPT TEMP 0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Divison</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/15/2002 <b>Time Collected:</b> 15:00 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71062 <b>Facility Name:</b> Vantran Electric Corp./ Hw9134 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9134	<b>Received By:</b> TNB <b>Date Received:</b> 7/16/2002 <b>Time Received:</b> 1:40 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>8260 Volatiles In Soil/Sed. QC Batch 50679</b>									
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	55	ug/kg (dw)		KDD	7/22/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	50	ug/kg (dw)		KDD	7/22/2002	39 to 68
Bromofluorobenzene(Surrogate QC Std.)			EPA 8260	49	ug/kg (dw)		KDD	7/22/2002	25 to 60
1,1-Dichloroethane-d4(Surrogate QC Std.)			EPA 8260	52	ug/kg (dw)		KDD	7/22/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	2	KDD	7/22/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	100	KDD	7/22/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Chloroform	34318		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppb: parts per billion  
 ppt: parts per trillion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
	CODE	NOTE					ANALYST	DATE	
acetone	75078		EPA 8260	Not Detected	ug/kg (dw)	100	KDD	7/22/2002	
1,1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/22/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/22/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/22/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Toluene	34483		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Naphthalene	34445		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE			UNITS	RL	ANALYST	DATE	
Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
<b>8270 Semi-Vol In Soil/Sed QC Batch 50936</b>									
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	28	ug/kg (dw)	0.00	PS	8/2/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	38	ug/kg (dw)	0.00	PS	8/2/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	34	ug/kg (dw)	0.00	PS	8/2/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	68	ug/kg (dw)	0.00	PS	8/2/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	100	ug/kg (dw)	0.00	PS	8/2/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	110	ug/kg (dw)	0.00	PS	8/2/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	2300	PS	8/2/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Benzoic acid	75315		EPA 8270C	Not Analyzed	ug/kg (dw)	5900	PS	8/2/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	2300	PS	8/2/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	2300	PS	8/2/2002	
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
1,2,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
1-Chlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	5900	PS	8/2/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	5900	PS	8/2/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	5900	PS	8/2/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	5900	PS	8/2/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
4,6-Dinitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	5900	PS	8/2/2002	
n-Nitrosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
1-phenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	5900	PS	8/2/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	2300	PS	8/2/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
bis(2-Ethylhexyl)phthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	
Di-n-octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS	8/2/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
n: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Dibenz(a,i)acridine			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	3000	PS 8/2/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	5900	PS 8/2/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	2400	PS 8/2/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	5900	PS 8/2/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	3000	PS 8/2/2002	
p,p'-DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Endrin Aldehyde			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	1200	PS 8/2/2002	
Hexadecanoic acid			EPA 8270C	1500 TIE	ug/kg (dw)	0.00	PS 8/2/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	10500	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	25000000	ug/kg (dw)	D 200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	36000	ug/kg (dw)	1000	LA	7/23/2002
Copper	01043	6010 B	17000	ug/kg (dw)	2500	LA	7/23/2002
Iron	01170	6010 B	27000000	ug/kg (dw)	D 100000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
ssium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
magnesium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	18000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	5000	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	12000	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	88000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	16000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50621

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/22/2002	
---------	-----------	--------------	------------	-----	----	-----------	--

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	Not Detected	ug/kg (dw)		PM	8/4/2002	10.0 to 30.0
DCB surr std	EPA 8081A	25.4	ug/kg (dw)		PM	8/4/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	30	PM	8/4/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	45	PM	8/4/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	10	PM	8/4/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	500	PM	8/4/2002	
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)	30	PM	8/4/2002	
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	65	PM	8/4/2002	
ORIN	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	80	PM	8/4/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	40	PM	8/4/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	D 1300	PM	8/4/2002	
CHLORPYRIFOS (DURBAN)	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	10	PM	8/4/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	200	PM	8/4/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std	EPA 8082	18.3	ug/kg (dw)		PM	8/3/2002	10.0 to 30.0
DCBP surr std	EPA 8082	54.5	ug/kg (dw)		PM	8/3/2002	20.0 to 60.0
PCB-1016	EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1221	EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1232	EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
1242			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1260			EPA 8082	2800	ug/kg (dw)	330	PM	8/3/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/11/02 for this compound with all QC in compliance.

\$8081S - Reporting Limits elevated due to high concentrations of target and/or non-target compounds in the sample.

\$8081S - One surrogate, TCMX, lost to sample dilution for high levels on target and/or non-target compounds. 1-082102-604

COMMENTS: \$8082S - Reporting Limits elevated due to high levels of target and/or non-target compounds.

COMMENTS: \$8270S - "Not analyzed" Sample not analyzed for Benzoic Acid. No valid curve for this compound. 7-080602-337

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

16 26 2002

Facility Name/Location: VANTRAN ELECTRIC CORPORATION  
Sample Collected By/Phone: ANDREW TAFT (404) 656-2833  
Collection Date: WEEK OF 7/15/2002 LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER: HW9133

File a separate Request Sheet for each sample point)



Sample ID AD71309

Location: HWMB

Description: VANTRAN ELECTRIC CORP/HW9133

Collector: A. TAFT

Sample ID: AD71309

Analysis Needed By: Routine ☒ Other (sp) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_  
Ground Water \_\_\_\_\_

Soil/Sediment \_\_\_\_\_  
Surface Water ☒

Sludge \_\_\_\_\_  
Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

Surface Water Duplicate of HW9132

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒  
Volatiles ☒  
Pesticides ☒  
Herbicides ☒  
Organophosphorous Pesticides ☒  
PCB ☒  
BETX ☒  
Total Petroleum Hydrocarbon ☒

2. TOTAL METALS

ICP Metals Scan ☒  
(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒  
Mercury ☒  
Metals Special Requests: ☒

1 HALF GALLONS / CYANIDE

NUTRIENTS/SULFATES

FCOL BOTTLES

Preservation Confirmed  
By pH

Organics Special Requests: \_\_\_\_\_

3. TCLP ORGANICS

Volatiles \_\_\_\_\_  
Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_  
Additional Specific Organics for TCLP: \_\_\_\_\_

1 METAL BOTTLES

3 AMBER BOTTLES

3 VOC VIALS

Pesticides \_\_\_\_\_  
Herbicides \_\_\_\_\_

SULFIDES / PHENOLS

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_  
Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back): \_\_\_\_\_

Reviewed By: (HWMB): \_\_\_\_\_  
Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Reviewed By: (EPD Lab): \_\_\_\_\_  
Date (EPD Lab): \_\_\_\_\_

TNB

RECPT TEMP

0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Divison</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/16/2002 <b>Time Collected:</b> 11:15 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71309 <b>Facility Name:</b> Vantran Electric Corp/Hw9133 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9133	<b>Received By:</b> TNB <b>Date Received:</b> 7/17/2002 <b>Time Received:</b> 12:31 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/21/2002 <b>Received Temperature:</b> 0.0 °C	

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
<b>8260 In Water QC Batch 50765</b>							
Dibromofluoromethane(Surrogate QC Std.)		EPA 8260	50	ug/L		LCS 7/25/2002	43 to 60
Toluene-d8(Surrogate QC Std.)		EPA 8260	51	ug/L		LCS 7/25/2002	40 to 60
Bromofluorobenzene(Surrogate QC Std.)		EPA 8260	49	ug/L		LCS 7/25/2002	40 to 54
1,1-Dichloroethane-d4(Surrogate QC Std.)		EPA 8260	48	ug/L		LCS 7/25/2002	35 to 65
Dichlorodifluoromethane	34668	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Chloromethane	34418	EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Bromomethane	34413	EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Vinyl Chloride	39175	EPA 8260	Not Detected	ug/L	2	LCS 7/25/2002	
Chloroethane	34311	EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Methylene Chloride	34423	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Trichlorofluoromethane	34488	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Acetone	81552	EPA 8260	Not Detected	ug/L	100	LCS 7/25/2002	
Dibromomethane	77596	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
trans-1,2-Dichloroethene	34546	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Iodomethane	77424	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Carbon Disulfide	77041	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1-Dichloroethene	34501	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1-Dichloroethane	34496	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
cis-1,2-Dichloroethene	77093	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
2,2-Dichloropropane	77170	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Bromochloromethane	77297	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Chloroform	32106	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1-Dichloropropene	77168	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2-Dichloroethane	32103	EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
acetone	81595		EPA 8260	Not Detected	ug/L	100	LCS	7/25/2002	
1,1,1-Trichloroethane	34506		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Carbon Tetrachloride	32102		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Vinyl Acetate	77057		EPA 8260	Not Detected	ug/L	50	LCS	7/25/2002	
Bromodichloromethane	32101		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2-Dichloropropane	34541		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Trichloroethene	39180		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Benzene	34030		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
2-Chloroethyl vinyl ether	34576		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
cis-1,3-Dichloropropene	34704		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
trans-1,3-Dichloropropene	34699		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Dibromochloromethane	32105		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1,2-Trichloroethane	34511		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Bromoform	32104		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2,3-Trichloropropane	77443		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
4-Methyl-2-Pentanone	81596		EPA 8260	Not Detected	ug/L	50	LCS	7/25/2002	
2-Hexanone	77103		EPA 8260	Not Detected	ug/L	50	LCS	7/25/2002	
Tetrachloroethene	34475		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1,2,2-Tetrachloroethane	34516		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Toluene	34010		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2-Dibromoethane	77651		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Chlorobenzene	34301		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Ethylbenzene	34371		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1,1,2-Tetrachloroethane	77562		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Styrene	77128		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
m-Xylene	77135		EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
o-Xylene	77135		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Bromobenzene	81555		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
2-Chlorotoluene	77275		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2,4-Trimethylbenzene	77222		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,3-Dichlorobenzene	34566		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,4-Dichlorobenzene	34571		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2-Dichlorobenzene	34536		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2-Dibromo-3-chloropropane			EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2,4-Trichlorobenzene	34551		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Hexachlorobutadiene	38702		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Naphthalene	34696		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
hexane			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
1,1,2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Methyl acetate			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
<b>8270 Semi-Vol in Water QC Batch 50648</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C 29		ug/L		PS 7/22/2002	10.0 to 76.2
Phenol-d5(Surrogate QC Std.)			EPA 8270C 22		ug/L		PS 7/22/2002	11.0 to 49.6
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C 65		ug/L		PS 7/22/2002	44.4 to 125
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C 62		ug/L		PS 7/22/2002	43.2 to 115
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C 68		ug/L		PS 7/22/2002	25.7 to 126
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C 76		ug/L		PS 7/22/2002	10.0 to 131
n-Nitrosodimethylamine	34438		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Picoline	77088		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Methylmethanesulfonate	73595		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Ethylmethanesulfonate	73571		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Aniline	77089		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Phenol	34694		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Chloroethyl)ether	34273		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Chlorophenol	34586		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,3-Dichlorobenzene	34566		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,4-Dichlorobenzene	34571		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzyl alcohol	77147		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
1,2-Dichlorobenzene	34536		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Chloroisopropyl)ether	34283		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
phenone	81553		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Hexachloroethane	34396		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Nitrobenzene	34447		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
n-Nitrosopiperidine	73619		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Isophorone	34408		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Nitrophenol	34591		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4-Dimethylphenol	34606		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Chloroethoxy)methane	34278		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzoic acid	77247		EPA 8270C	Not Analyzed	ug/L	50	PS 7/22/2002	
2,4-Dichlorophenol	34601		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,2,4-Trichlorobenzene	34551		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
aa-dimethyl-Phenethylamine	73564		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Naphthalene	34696		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Chloroaniline	73529		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
2,6-Dichlorophenol	77541		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Hexachlorobutadiene	38702		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
n-Nitroso-di-n-butylamine	73609		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Chloro-3-methylphenol	34452		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
2-Methylnaphthalene	77416		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
1,2,3,4,5-Tetrachlorobenzene	77734		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Hexachlorocyclopentadiene	34386		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
2,4,6-Trichlorophenol	34621		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
2,4,5-Trichlorophenol	77687		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
2-Chloronaphthalene	34581		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
2-Nitroaniline	78142		EPA 8270C	Not Detected	ug/L	50	PS	7/22/2002	
Dimethylphthalate	34341		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Acenaphthylene	34200		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
2,6-Dinitrotoluene	34626		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
3-Nitroaniline	78300		EPA 8270C	Not Detected	ug/L	50	PS	7/22/2002	
Acenaphthene	34205		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
2,4-Dinitrophenol	34616		EPA 8270C	Not Detected	ug/L	50	PS	7/22/2002	
4-Nitrophenol	34646		EPA 8270C	Not Detected	ug/L	50	PS	7/22/2002	
Dibenzofuran	81302		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Pentachlorobenzene	77793		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
2,4-Dinitrotoluene	34611		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
1-Naphthylamine	73600		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
2-Naphthylamine	73601		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Diethylphthalate	34336		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Fluorene	34381		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
4-Chlorophenyl-phenylether	34641		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
4-Nitroaniline	30342		EPA 8270C	Not Detected	ug/L	20	PS	7/22/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
4-Nitro-2-methylphenol	34657		EPA 8270C	Not Detected	ug/L	50	PS	7/22/2002	
p-Toluidine	34433		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
1,2-Diphenylhydrazine	34346		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
4-Bromophenyl-phenylether	34636		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Phenacetin			EPA 8270C	Not Detected	ug/L	20	PS	7/22/2002	
Hexachlorobenzene	39700		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
4-Aminobiphenyl	77581		EPA 8270C	Not Detected	ug/L	20	PS	7/22/2002	
Pentachlorophenol	39032		EPA 8270C	Not Detected	ug/L	50	PS	7/22/2002	
Pronamide	39080		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Pentachloronitrobenzene	81316		EPA 8270C	Not Detected	ug/L	20	PS	7/22/2002	
Phenanthrene	34461		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Anthracene	34220		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Di-n-butylphthalate	39110		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Fluoranthene	34376		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Benzidine	39120		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Pyrene	34469		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
p-Dimethylaminoazobenzene	73558		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Butylbenzylphthalate	34292		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
Benzo[a]anthracene	34526		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
3,3'-Dichlorobenzidine	34631		EPA 8270C	Not Detected	ug/L	20	PS	7/22/2002	
Chrysene	34320		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	
bis(2-Ethylhexyl)phthalate	39100		EPA 8270C	Not Detected	ug/L	10	PS	7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Diethylphthalate	34596		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[b]fluoranthene	34230		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[k]fluoranthene	34242		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
7,12-Dimethylbenz(a)anthracene	73559		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[a]pyrene	34247		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
3-Methylcholanthrene	73591		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Dibenz(a,i)acridine			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Indeno[1,2,3-cd]pyrene	34403		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Dibenz[a,h]anthracene	34556		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[g,h,i]perylene	34521		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Pyridine	77045		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Alpha-BHC	39337		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Gamma-BHC	39340		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Beta-BHC	39338		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Delta-BHC	34259		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Heptachlor	39410		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Aldrin	39330		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Heptachlor Epoxide	39420		EPA 8270C	Not Detected	ug/L	25	PS 7/22/2002	
Endosulfan-1	34361		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Dieldrin	39380		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
p,p'-DDE	39320		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Endrin	39390		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Endosulfan 2	34356		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
p,p'-DDD	39310		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Endrin Aldehyde	34366		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Endosulfan Sulfate	34351		EPA 8270C	Not Detected	ug/L	25	PS 7/22/2002	
p,p'-DDT	39300		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Caprolactam			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Atrazine			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Carbazole			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	

#### QC Batch 50519

Total Cyanide	00720	EPA 335.4	Not Detected	ug/L	25	BS	7/19/2002
---------------	-------	-----------	--------------	------	----	----	-----------

#### Target analyte list Metals VCPMS QC Batch 50637

Beryllium 9	01012	6020	Not Detected	ug/L	5	VK	7/30/2002
Vanadium 51	01087	6020	Not Detected	ug/L	50	VK	7/30/2002
Chromium 52	01034	6020	Not Detected	ug/L	10	VK	7/30/2002
Cobalt 59	01037	6020	Not Detected	ug/L	50	VK	7/30/2002
Nickel 60	01067	6020	Not Detected	ug/L	40	VK	7/30/2002
Copper 65	01042	6020	Not Detected	ug/L	25	VK	7/30/2002
Zinc 68	01092	6020	Not Detected	ug/L	20	VK	7/30/2002
Arsenic 75	01002	6020	Not Detected	ug/L	10	VK	7/30/2002
Selenium 82	01147	6020	Not Detected	ug/L	5	VK	7/30/2002
Silver 107	01077	6020	Not Detected	ug/L	10	VK	7/30/2002
Cadmium 111	01027	6020	Not Detected	ug/L	5	VK	7/30/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Barium 121	01097		6020	Not Detected	ug/L	60	VK	7/30/2002	
Barium 137	01007		6020	Not Detected	ug/L	200	VK	7/30/2002	
Thallium 205	01059		6020	Not Detected	ug/L	10	VK	7/30/2002	
Lead 207	01051		6020	Not Detected	ug/L	3	VK	7/30/2002	
<b>ICP TAL Metals in Water QC Batch 50662</b>									
Aluminum	01105		6010B	Not Detected	ug/L	200	LA	7/29/2002	
Calcium	00916		6010B	10000	ug/L	5000	LA	7/29/2002	
Iron	01045		6010B	6900	ug/L	100	LA	7/29/2002	
Potassium	00937		6010B	Not Detected	ug/L	5000	LA	7/29/2002	
Magnesium	00927		6010B	Not Detected	ug/L	5000	LA	7/29/2002	
Manganese	01055		6010B	850	ug/L	15	LA	7/29/2002	
Sodium	00929		6010B	5200	ug/L	5000	LA	7/29/2002	
<b>QC Batch 50620</b>									
Mercury	71900		EPA 7470A	Not Detected	ug/L	0.2	PB	7/19/2002	
<b>Pesticides in Water QC Batch 50512</b>									
TCMX surr std			EPA 8081A	0.415	ug/L	D	JSM	7/28/2002	0.240 to 0.560
DCB surr std			EPA 8081A	0.723	ug/L	D	JSM	7/28/2002	0.480 to 1.12
a-BHC			EPA 8081A	Not Detected	ug/L	D 0.05	JSM	7/28/2002	
b-BHC			EPA 8081A	Not Detected	ug/L	0.06	JSM	7/28/2002	
d-BHC			EPA 8081A	Not Detected	ug/L	0.15	JSM	7/28/2002	
LINDANE (g-BHC)			EPA 8081A	Not Detected	ug/L	D 0.05	JSM	7/28/2002	
CHLORDANE			EPA 8081A	Not Detected	ug/L	2.0	JSM	7/28/2002	
4,4-DDD			EPA 8081A	Not Detected	ug/L	D 0.10	JSM	7/28/2002	
4,4-DDE			EPA 8081A	Not Detected	ug/L	0.05	JSM	7/28/2002	
4,4-DDT			EPA 8081A	Not Detected	ug/L	D 0.06	JSM	7/28/2002	
ENDRIN			EPA 8081A	Not Detected	ug/L	D 0.05	JSM	7/28/2002	
ENDOSULFAN I			EPA 8081A	Not Detected	ug/L	D 0.10	JSM	7/28/2002	
ENDOSULFAN II			EPA 8081A	Not Detected	ug/L	0.10	JSM	7/28/2002	
ENDOSULFAN SULFATE			EPA 8081A	Not Detected	ug/L	0.10	JSM	7/28/2002	
ENDRIN			EPA 8081A	Not Detected	ug/L	D 0.10	JSM	7/28/2002	
ENDRIN ALDEHYDE			EPA 8081A	Not Detected	ug/L	0.10	JSM	7/28/2002	
HEPTACHLOR			EPA 8081A	Not Detected	ug/L	D 0.05	JSM	7/28/2002	
HEPTACHLOR EPOXIDE			EPA 8081A	Not Detected	ug/L	0.05	JSM	7/28/2002	
TOXAPHENE			EPA 8081A	Not Detected	ug/L	D 3.0	JSM	7/28/2002	
CHLORPYRIFOS (DURSABAN)			EPA 8081A	Not Detected	ug/L	0.10	JSM	7/28/2002	
HEXACHLOROBENZENE			EPA 8081A	Not Detected	ug/L	0.05	JSM	7/28/2002	
METHOXYCHLOR			EPA 8081A	Not Detected	ug/L	D 0.20	JSM	7/28/2002	
MIREX			EPA 8081A	Not Detected	ug/L	D 0.30	JSM	7/28/2002	
ALDRIN			EPA 8081A	Not Detected	ug/L	0.05	JSM	7/28/2002	
gamma-CHLORDANE			EPA 8081A	Not Detected	ug/L	0.10	JSM	7/28/2002	
alpha-CHLORDANE			EPA 8081A	Not Detected	ug/L	0.10	JSM	7/28/2002	
<b>PCBs in Water QC Batch 50513</b>									
TCMX surr std			EPA 8082	0.415	ug/L		JSM	8/1/2002	0.240 to 0.560
DCB surr std			EPA 8082	0.723	ug/L		JSM	8/1/2002	0.480 to 1.12
PCB-1016			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1221			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
1232			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
1242			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1248			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1254			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1260			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1262			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	

COMMENTS: \$8081H - "D" These compounds analyzed on 8/1/02 with all QC in compliance.

COMMENTS: \$8270W - "Not Analyzed" - Sample not analyzed for this compound. No valid 5 point curve due to lack of response in the 10 ppm standard. 7-072502-316

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
n: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

JUG 26 2002

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

ANDREW TAFT (404) 656-2833

Collection Date:

WEEK OF 7/15/2002

LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER:

HW9132

*File a separate Request Sheet for each sample point.*



Sample ID AD71307

Location: HWMB

Description: VANTRAN ELECTRIC CORP/HW9132

Collector: A. TAFT

Sample ID: AD71307

Analysis Needed By:

Routine ☒

Other (spec) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_

Ground Water \_\_\_\_\_

Soil/Sediment \_\_\_\_\_

Surface Water ☒

Sludge \_\_\_\_\_

Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration):

Surface Water sample to determine absence/presence of haz. substan

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒

Volatiles ☒

Pesticides ☒

Herbicides ☒

Organophosphorous Pesticides ☒

PCB ☒

BETX ☒

Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒

(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒

Mercury ☒

Metals Special Requests: ☒

CYANIDE

1 HALF GALLONS CYANIDE

NUTRIENTS/SULFATES

Preservation Confirmed  
By pH \_\_\_\_\_

3. TCLP ORGANICS

Volatiles ☒

Semi-Volatiles (Acid & Base/Neutral) ☒

Additional Specific Organics for TCLP: 3 VOC VIALS

1 FCOL BOTTLES

1 METAL BOTTLES

0 AMBER BOTTLES

Pesticides \_\_\_\_\_

Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒

Mercury ☒

SULFIDES/PHENOLS

OIL AND GREASE

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (Use list on back):

Reviewed By: (HWMB): \_\_\_\_\_

Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By: (EPD Lab): \_\_\_\_\_

Date (EPD Lab): \_\_\_\_\_

RECPT TEMP 0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

TO: Georgia Env Protection Divison Hazardous Waste Mgmt Branch 205 Butler St SE Suite 1154E Atlanta, GA 30334		Date Collected: 7/16/2002 Time Collected: 10:10 Sample Collector: A. TAFT Chlorination: Sample Type:
Sample ID: AD71307 Facility Name: Vantran Electric Corp/Hw9132 Site ID: HWMB Location ID: Location Descr: HW9132	Received By: TNB Date Received: 7/17/2002 Time Received: 12:31 PM Project: HW Reporting Date: 8/21/2002 Received Temperature: 0.0 ° C	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>8260 in Water QC Batch 50765</b>									
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	51	ug/L		LCS	7/25/2002	43 to 60
Toluene-d8(Surrogate QC Std.)			EPA 8260	50	ug/L		LCS	7/25/2002	40 to 60
Bromofluorobenzene(Surrogate QC Std.)			EPA 8260	49	ug/L		LCS	7/25/2002	40 to 54
1,1-Dichloroethane-d4(Surrogate QC Std.)			EPA 8260	51	ug/L		LCS	7/25/2002	35 to 65
Dichlorodifluoromethane	34668		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Chloromethane	34418		EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
Bromomethane	34413		EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
Vinyl Chloride	39175		EPA 8260	Not Detected	ug/L	2	LCS	7/25/2002	
Chloroethane	34311		EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
Methylene Chloride	34423		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Trichlorofluoromethane	34488		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Acetone	81552		EPA 8260	Not Detected	ug/L	100	LCS	7/25/2002	
Dibromomethane	77596		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
trans-1,2-Dichloroethene	34546		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Iodomethane	77424		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Carbon Disulfide	77041		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1-Dichloroethene	34501		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1-Dichloroethane	34496		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Chloroform	32106		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2-Dichloroethane	32103		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppb: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
anone	81595		EPA 8260	Not Detected	ug/L	100	LCS 7/25/2002	
1,1,1-Trichloroethane	34506		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Carbon Tetrachloride	32102		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Vinyl Acetate	77057		EPA 8260	Not Detected	ug/L	50	LCS 7/25/2002	
Bromodichloromethane	32101		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2-Dichloropropane	34541		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Trichloroethene	39180		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Benzene	34030		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
2-Chloroethyl vinyl ether	34576		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
cis-1,3-Dichloropropene	34704		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
trans-1,3-Dichloropropene	34699		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Dibromochloromethane	32105		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1,2-Trichloroethane	34511		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Bromoform	32104		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2,3-Trichloropropane	77443		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
4-Methyl-2-Pentanone	81596		EPA 8260	Not Detected	ug/L	50	LCS 7/25/2002	
2-Hexanone	77103		EPA 8260	Not Detected	ug/L	50	LCS 7/25/2002	
Tetrachloroethene	34475		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1,2,2-Tetrachloroethane	34516		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Toluene	34010		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2-Dibromoethane	77651		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Chlorobenzene	34301		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Ethylbenzene	34371		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1,1,2-Tetrachloroethane	77562		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Styrene	77128		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
p-Xylene	77135		EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
o-Xylene	77135		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Bromobenzene	81555		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
2-Chlorotoluene	77275		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2,4-Trimethylbenzene	77222		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,3-Dichlorobenzene	34566		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,4-Dichlorobenzene	34571		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2-Dichlorobenzene	34536		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2-Dibromo-3-chloropropane			EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2,4-Trichlorobenzene	34551		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Hexachlorobutadiene	38702		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Naphthalene	34696		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
hexane			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
1,1,2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Methyl acetate			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
<b>8270 Semi-Vol in Water QC Batch 50648</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C 30		ug/L		PS 7/22/2002	10.0 to 76.2
Phenol-d5(Surrogate QC Std.)			EPA 8270C 20		ug/L		PS 7/22/2002	11.0 to 49.6
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C 59		ug/L		PS 7/22/2002	44.4 to 125
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C 52		ug/L		PS 7/22/2002	43.2 to 115
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C 58		ug/L		PS 7/22/2002	25.7 to 126
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C 45		ug/L		PS 7/22/2002	10.0 to 131
n-Nitrosodimethylamine	34438		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Picoline	77088		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Methylmethanesulfonate	73595		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Ethylmethanesulfonate	73571		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Aniline	77089		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Phenol	34694		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Chloroethyl)ether	34273		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Chlorophenol	34586		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,3-Dichlorobenzene	34566		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,4-Dichlorobenzene	34571		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzyl alcohol	77147		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
1,2-Dichlorobenzene	34536		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Chloroisopropyl)ether	34283		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
phenone	81553		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Hexachloroethane	34396		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Nitrobenzene	34447		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
n-Nitrosopiperidine	73619		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Isophorone	34408		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Nitrophenol	34591		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4-Dimethylphenol	34606		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Chloroethoxy)methane	34278		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzoic acid	77247		EPA 8270C	Not Analyzed	ug/L	50	PS 7/22/2002	
2,4-Dichlorophenol	34601		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,2,4-Trichlorobenzene	34551		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
aa-dimethyl-Phenethylamine	73564		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Naphthalene	34696		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Chloroaniline	73529		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
2,6-Dichlorophenol	77541		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Hexachlorobutadiene	38702		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
n-Nitroso-di-n-butylamine	73609		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Chloro-3-methylphenol	34452		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
2-Methylnaphthalene	77416		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
1,5-Tetrachlorobenzene	77734		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,2,3,4-Tetrachlorocyclopentadiene	34386		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4,6-Trichlorophenol	34621		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4,5-Trichlorophenol	77687		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Chloronaphthalene	34581		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Nitroaniline	78142		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Dimethylphthalate	34341		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Acenaphthylene	34200		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,6-Dinitrotoluene	34626		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
3-Nitroaniline	78300		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Acenaphthene	34205		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4-Dinitrophenol	34616		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
4-Nitrophenol	34646		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Dibenzofuran	81302		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Pentachlorobenzene	77793		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4-Dinitrotoluene	34611		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1-Naphthylamine	73600		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Naphthylamine	73601		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Diethylphthalate	34336		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Fluorene	34381		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Chlorophenyl-phenylether	34641		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Nitroaniline	30342		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Dinitro-2-methylphenol	34657		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
1,2-Bisodiphenylamine	34433		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,2-Diphenylhydrazine	34346		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Bromophenyl-phenylether	34636		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Phenacetin			EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Hexachlorobenzene	39700		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Aminobiphenyl	77581		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Pentachlorophenol	39032		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Pronamide	39080		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Pentachloronitrobenzene	81316		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Phenanthrene	34461		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Anthracene	34220		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Di-n-butylphthalate	39110		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Fluoranthene	34376		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzidine	39120		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Pyrene	34469		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
p-Dimethylaminoazobenzene	73558		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Butylbenzylphthalate	34292		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[a]anthracene	34526		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
3,3'-Dichlorobenzidine	34631		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Chrysene	34320		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Ethylhexyl)phthalate	39100		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
octylphthalate	34596		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[b]fluoranthene	34230		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[k]fluoranthene	34242		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
7,12-Dimethylbenz(a)anthracene	73559		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[a]pyrene	34247		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
3-Methylcholanthrene	73591		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Dibenz(a,j)acridine			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Indeno[1,2,3-cd]pyrene	34403		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Dibenz[a,h]anthracene	34556		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[g,h,i]perylene	34521		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Pyridine	77045		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Alpha-BHC	39337		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Gamma-BHC	39340		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Beta-BHC	39338		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Delta-BHC	34259		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Heptachlor	39410		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Aldrin	39330		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Heptachlor Epoxide	39420		EPA 8270C	Not Detected	ug/L	25	PS 7/22/2002	
Endosulfan 1	34361		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Dieldrin	39380		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
p,p'-DDE	39320		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Endrin	39390		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Endosulfan 2	34356		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
p,p'-DDD	39310		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Endrin Aldehyde	34366		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Endosulfan Sulfate	34351		EPA 8270C	Not Detected	ug/L	25	PS 7/22/2002	
Benzaldehyde	39300		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Caprolactam			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Atrazine			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Carbazole			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	

#### QC Batch 50519

Total Cyanide	00720		EPA 335.4	Not Detected	ug/L	25	BS 7/19/2002	
---------------	-------	--	-----------	--------------	------	----	--------------	--

#### Target analyte list Metals\CPMS QC Batch 50637

Beryllium 9	01012	6020	Not Detected	ug/L	5	VK 7/30/2002	
Vanadium 51	01087	6020	Not Detected	ug/L	50	VK 7/30/2002	
Chromium 52	01034	6020	Not Detected	ug/L	10	VK 7/30/2002	
Cobalt 59	01037	6020	Not Detected	ug/L	50	VK 7/30/2002	
Nickel 60	01067	6020	Not Detected	ug/L	40	VK 7/30/2002	
Copper 65	01042	6020	Not Detected	ug/L	25	VK 7/30/2002	
Zinc 68	01092	6020	Not Detected	ug/L	20	VK 7/30/2002	
Arsenic 75	01002	6020	Not Detected	ug/L	10	VK 7/30/2002	
Selenium 82	01147	6020	Not Detected	ug/L	5	VK 7/30/2002	
Silver 107	01077	6020	Not Detected	ug/L	10	VK 7/30/2002	
Cadmium 111	01027	6020	Not Detected	ug/L	5	VK 7/30/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Barium 121	01097		6020	Not Detected	ug/L	60	VK 7/30/2002	
Barium 137	01007		6020	Not Detected	ug/L	200	VK 7/30/2002	
Thallium 205	01059		6020	Not Detected	ug/L	10	VK 7/30/2002	
Lead 207	01051		6020	Not Detected	ug/L	3	VK 7/30/2002	
<b>ICP TAL Metals in Water QC Batch 50662</b>								
Aluminum	01105		6010B	790	ug/L	200	LA 7/29/2002	
Calcium	00916		6010B	11000	ug/L	5000	LA 7/29/2002	
Iron	01045		6010B	6900	ug/L	100	LA 7/29/2002	
Potassium	00937		6010B	Not Detected	ug/L	5000	LA 7/29/2002	
Magnesium	00927		6010B	Not Detected	ug/L	5000	LA 7/29/2002	
Manganese	01055		6010B	860	ug/L	15	LA 7/29/2002	
Sodium	00929		6010B	5300	ug/L	5000	LA 7/29/2002	
<b>QC Batch 50620</b>								
Mercury	71900		EPA 7470A	Not Detected	ug/L	0.2	PB 7/19/2002	
<b>Pesticides in Water QC Batch 50512</b>								
TCMX surr std			EPA 8081A	0.427	ug/L	D	JSM 7/27/2002	0.240 to 0.560
DCB surr std			EPA 8081A	0.705	ug/L	D	JSM 7/27/2002	0.480 to 1.12
a-BHC			EPA 8081A	Not Detected	ug/L	D 0.05	JSM 7/27/2002	
b-BHC			EPA 8081A	Not Detected	ug/L	0.06	JSM 7/27/2002	
d-BHC			EPA 8081A	Not Detected	ug/L	0.15	JSM 7/27/2002	
LINDANE (g-BHC)			EPA 8081A	Not Detected	ug/L	D 0.05	JSM 7/27/2002	
CHLORDANE			EPA 8081A	Not Detected	ug/L	2.0	JSM 7/27/2002	
4,4-DDD			EPA 8081A	Not Detected	ug/L	D 0.10	JSM 7/27/2002	
4,4-DDE			EPA 8081A	Not Detected	ug/L	0.05	JSM 7/27/2002	
4,4-DDT			EPA 8081A	Not Detected	ug/L	D 0.06	JSM 7/27/2002	
ENDRIN			EPA 8081A	Not Detected	ug/L	D 0.05	JSM 7/27/2002	
ENDOSULFAN I			EPA 8081A	Not Detected	ug/L	D 0.10	JSM 7/27/2002	
ENDOSULFAN II			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
ENDOSULFAN SULFATE			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
ENDRIN			EPA 8081A	Not Detected	ug/L	D 0.10	JSM 7/27/2002	
ENDRIN ALDEHYDE			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
HEPTACHLOR			EPA 8081A	Not Detected	ug/L	D 0.05	JSM 7/27/2002	
HEPTACHLOR EPOXIDE			EPA 8081A	Not Detected	ug/L	0.05	JSM 7/27/2002	
TOXAPHENE			EPA 8081A	Not Detected	ug/L	D 3.0	JSM 7/27/2002	
CHLORPYRIFOS (DURSBN)			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
HEXACHLOROBENZENE			EPA 8081A	Not Detected	ug/L	0.05	JSM 7/27/2002	
METHOXYCHLOR			EPA 8081A	Not Detected	ug/L	D 0.20	JSM 7/27/2002	
MIREX			EPA 8081A	Not Detected	ug/L	D 0.30	JSM 7/27/2002	
ALDRIN			EPA 8081A	Not Detected	ug/L	0.05	JSM 7/27/2002	
gamma-CHLORDANE			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
alpha-CHLORDANE			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
<b>PCBs in Water QC Batch 50513</b>								
TCMX surr std			EPA 8082	0.427	ug/L		JSM 8/1/2002	0.240 to 0.560
DCB surr std			EPA 8082	0.705	ug/L		JSM 8/1/2002	0.480 to 1.12
PCB-1016			EPA 8082	Not Detected	ug/L	1.0	JSM 8/1/2002	
PCB-1221			EPA 8082	Not Detected	ug/L	1.0	JSM 8/1/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
1232			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
1242			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1248			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1254			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1260			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1262			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	

COMMENTS: \$8081H - "D" These compounds analyzed on 8/1/02 with all QC in compliance.

COMMENTS: \$8270W - "Not Analyzed" - Sample not analyzed for this compound. No valid 5 point curve due to lack of response in the 10 ppm standard. 7-072502-316

COMMENTS: \$R\_TAL\_L: ICP Metals - Matrix Spike had one analyte, Iron (30% recovery, limits 70-130%), with a percent recovery outside acceptable control limits due to high concentration of target analytes in sample. 2-072602-204.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

AUG 26 2002

Facility Name/Location: VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone: ANDREW TAFT (404) 656-2833

Collection Date: WEEK OF 7/15/2002

LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER: HW9131

File a separate Request Sheet for each sample point)



Sample ID AD71306

Location: HWMB

Description: VANTRAN ELECTRIC CORP/HW9131

Collector: A. TAFT

Sample ID: AD71306

Analysis Needed By: Routine ☒ Other (spec) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_  
Ground Water \_\_\_\_\_

Soil/Sediment \_\_\_\_\_  
Surface Water ☒

Sludge \_\_\_\_\_  
Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

Surface Water sample to determine absence/presence of haz. substance

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly Contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒  
Volatiles ☒  
Pesticides ☒  
Herbicides ☒  
Organophosphorous Pesticides ☒  
PCB ☒  
BETX ☒  
Total Petroleum Hydrocarbon ☒

2. TOTAL METALS

ICP Metals Scan ☒  
(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒  
Mercury ☒  
Metals Special Requests: ☒

CYANIDE

Organics Special Requests: \_\_\_\_\_

1 HALF GALLONS CYANIDE

Preservation Confirmed  
By pH

NUTRIENTS/SULFATES

3. TCLP ORGANICS

Volatiles ☒  
Semi-Volatiles (Acid & Base/Neutral) ☒  
Additional Specific Organics for TCLP: \_\_\_\_\_

FCOL BOTTLES

1 METAL BOTTLES

Pesticides \_\_\_\_\_  
Herbicides \_\_\_\_\_

10 AMBER BOTTLES

3 VOC VIALS

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_  
Mercury \_\_\_\_\_

SULFIDES/PHENOLS

OIL AND GREASE

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_  
Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Reviewed By: (EPD Lab): \_\_\_\_\_  
Date (EPD Lab): \_\_\_\_\_

TNB

RECPT TEMP 0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

TO: Georgia Env Protection Divison Hazardous Waste Mgmt Branch 205 Butler St SE Suite 1154E Atlanta, GA 30334		Date Collected: 7/16/2002 Time Collected: 11:45 Sample Collector: A. TAFT Chlorination: Sample Type:
Sample ID: AD71306 Facility Name: Vantran Electric Corp/Hw9131 Site ID: HWMB Location ID: Location Descr: HW9131	Received By: TNB Date Received: 7/17/2002 Time Received: 12:31 PM Project: HW Reporting Date: 8/21/2002 Received Temperature: 0.0 °C	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
<b>8260 in Water QC Batch 50765</b>								
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	48	ug/L		LCS 7/25/2002	43 to 60
Toluene-d8(Surrogate QC Std.)			EPA 8260	49	ug/L		LCS 7/25/2002	40 to 60
Fluorobenzene(Surrogate QC Std.)			EPA 8260	50	ug/L		LCS 7/25/2002	40 to 54
1,1-Dichloroethane-d4(Surrogate QC Std.)			EPA 8260	47	ug/L		LCS 7/25/2002	35 to 65
Dichlorodifluoromethane	34668		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Chloromethane	34418		EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Bromomethane	34413		EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Vinyl Chloride	39175		EPA 8260	Not Detected	ug/L	2	LCS 7/25/2002	
Chloroethane	34311		EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Methylene Chloride	34423		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Trichlorofluoromethane	34488		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Acetone	81552		EPA 8260	Not Detected	ug/L	100	LCS 7/25/2002	
Dibromomethane	77596		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
trans-1,2-Dichloroethene	34546		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Iodomethane	77424		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Carbon Disulfide	77041		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1-Dichloroethene	34501		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1-Dichloroethane	34496		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Chloroform	32106		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2-Dichloroethane	32103		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppm: parts per million  
 ppb: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
acetone	81595		EPA 8260	Not Detected	ug/L	100	LCS	7/25/2002	
1,1,1-Trichloroethane	34506		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Carbon Tetrachloride	32102		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Vinyl Acetate	77057		EPA 8260	Not Detected	ug/L	50	LCS	7/25/2002	
Bromodichloromethane	32101		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2-Dichloropropane	34541		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Trichloroethene	39180		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Benzene	34030		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
2-Chloroethyl vinyl ether	34576		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
cis-1,3-Dichloropropene	34704		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
trans-1,3-Dichloropropene	34699		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Dibromochloromethane	32105		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1,2-Trichloroethane	34511		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Bromoform	32104		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2,3-Trichloropropane	77443		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
4-Methyl-2-Pentanone	81596		EPA 8260	Not Detected	ug/L	50	LCS	7/25/2002	
2-Hexanone	77103		EPA 8260	Not Detected	ug/L	50	LCS	7/25/2002	
Tetrachloroethene	34475		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1,2,2-Tetrachloroethane	34516		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Toluene	34010		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2-Dibromoethane	77651		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Chlorobenzene	34301		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Ethylbenzene	34371		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1,1,2-Tetrachloroethane	77562		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Styrene	77128		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
p-Xylene	77135		EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
o-Xylene	77135		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Bromobenzene	81555		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
2-Chlorotoluene	77275		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2,4-Trimethylbenzene	77222		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,3-Dichlorobenzene	34566		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,4-Dichlorobenzene	34571		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2-Dichlorobenzene	34536		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2-Dibromo-3-chloropropane			EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2,4-Trichlorobenzene	34551		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Hexachlorobutadiene	38702		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Naphthalene	34696		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
µm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
hexane			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
methylcyclohexane			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
1,1,2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Methyl acetate			EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
<b>8270 Semi-Vol in Water QC Batch 50648</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C 31		ug/L		PS 7/22/2002	10.0 to 76.2
Phenol-d5(Surrogate QC Std.)			EPA 8270C 20		ug/L		PS 7/22/2002	11.0 to 49.6
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C 63		ug/L		PS 7/22/2002	44.4 to 125
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C 54		ug/L		PS 7/22/2002	43.2 to 115
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C 67		ug/L		PS 7/22/2002	25.7 to 126
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C 51		ug/L		PS 7/22/2002	10.0 to 131
n-Nitrosodimethylamine	34438		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Picoline	77088		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Methylmethanesulfonate	73595		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Ethylmethanesulfonate	73571		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Aniline	77089		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Phenol	34694		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Chloroethyl)ether	34273		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Chlorophenol	34586		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,3-Dichlorobenzene	34566		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,4-Dichlorobenzene	34571		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzyl alcohol	77147		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
1,2-Dichlorobenzene	34536		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Chloroisopropyl)ether	34283		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
phenone	81553		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Hexachloroethane	34396		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Nitrobenzene	34447		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
n-Nitrosopiperidine	73619		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Isophorone	34408		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Nitrophenol	34591		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4-Dimethylphenol	34606		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Chloroethoxy)methane	34278		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzoic acid	77247		EPA 8270C	Not Analyzed	ug/L	50	PS 7/22/2002	
2,4-Dichlorophenol	34601		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,2,4-Trichlorobenzene	34551		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
aa-dimethyl-Phenethylamine	73564		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Naphthalene	34696		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Chloroaniline	73529		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
2,6-Dichlorophenol	77541		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Hexachlorobutadiene	38702		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
n-Nitroso-di-n-butylamine	73609		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Chloro-3-methylphenol	34452		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
2-Methylnaphthalene	77416		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
5-Tetrachlorobenzene	77734		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Hexachlorocyclopentadiene	34386		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4,6-Trichlorophenol	34621		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4,5-Trichlorophenol	77687		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Chloronaphthalene	34581		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Nitroaniline	78142		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Dimethylphthalate	34341		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Acenaphthylene	34200		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,6-Dinitrotoluene	34626		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
3-Nitroaniline	78300		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Acenaphthene	34205		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4-Dinitrophenol	34616		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
4-Nitrophenol	34646		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Dibenzofuran	81302		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Pentachlorobenzene	77793		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,4-Dinitrotoluene	34611		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1-Naphthylamine	73600		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2-Naphthylamine	73601		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Diethylphthalate	34336		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Fluorene	34381		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Chlorophenyl-phenylether	34641		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Nitroaniline	30342		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4,6-Dinitro-2-methylphenol	34657		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
p-Toluidine	34433		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,2-Diphenylhydrazine	34346		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Bromophenyl-phenylether	34636		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Phenacetin			EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Hexachlorobenzene	39700		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
4-Aminobiphenyl	77581		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Pentachlorophenol	39032		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Pronamide	39080		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Pentachloronitrobenzene	81316		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Phenanthrene	34461		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Anthracene	34220		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Di-n-butylphthalate	39110		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Fluoranthene	34376		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzidine	39120		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Pyrene	34469		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
p-Dimethylaminoazobenzene	73558		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Butylbenzylphthalate	34292		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[a]anthracene	34526		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
3,3'-Dichlorobenzidine	34631		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Chrysene	34320		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
bis(2-Ethylhexyl)phthalate	39100		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Octylphthalate	34596		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[b]fluoranthene	34230		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[k]fluoranthene	34242		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
7,12-Dimethylbenz(a)anthracene	73559		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[a]pyrene	34247		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
3-Methylcholanthrene	73591		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Dibenz(a,j)acridine			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Indeno[1,2,3-cd]pyrene	34403		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Dibenz[a,h]anthracene	34556		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzo[g,h,i]perylene	34521		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Pyridine	77045		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Alpha-BHC	39337		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Gamma-BHC	39340		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Beta-BHC	39338		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Delta-BHC	34259		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Heptachlor	39410		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Aldrin	39330		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Heptachlor Epoxide	39420		EPA 8270C	Not Detected	ug/L	25	PS 7/22/2002	
Endosulfan 1	34361		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
Dieldrin	39380		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
p,p'-DDE	39320		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Endrin	39390		EPA 8270C	Not Detected	ug/L	20	PS 7/22/2002	
Endosulfan 2	34356		EPA 8270C	Not Detected	ug/L	50	PS 7/22/2002	
p,p'-DDD	39310		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Endrin Aldehyde	34366		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Endosulfan Sulfate	34351		EPA 8270C	Not Detected	ug/L	25	PS 7/22/2002	
DDT	39300		EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Caprolactam			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Atrazine			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	
Carbazole			EPA 8270C	Not Detected	ug/L	10	PS 7/22/2002	

#### QC Batch 50519

Total Cyanide	00720		EPA 335.4	Not Detected	ug/L	25	BS 7/19/2002	
---------------	-------	--	-----------	--------------	------	----	--------------	--

#### Target analyte list Metals\CPMS QC Batch 50637

Beryllium 9	01012	6020	Not Detected	ug/L	5	VK 7/30/2002	
Vanadium 51	01087	6020	Not Detected	ug/L	50	VK 7/30/2002	
Chromium 52	01034	6020	Not Detected	ug/L	10	VK 7/30/2002	
Cobalt 59	01037	6020	Not Detected	ug/L	50	VK 7/30/2002	
Nickel 60	01067	6020	Not Detected	ug/L	40	VK 7/30/2002	
Copper 65	01042	6020	Not Detected	ug/L	25	VK 7/30/2002	
Zinc 68	01092	6020	Not Detected	ug/L	20	VK 7/30/2002	
Arsenic 75	01002	6020	Not Detected	ug/L	10	VK 7/30/2002	
Selenium 82	01147	6020	Not Detected	ug/L	5	VK 7/30/2002	
Silver 107	01077	6020	Not Detected	ug/L	10	VK 7/30/2002	
Cadmium 111	01027	6020	Not Detected	ug/L	5	VK 7/30/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
pm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Barium 121	01097		6020	Not Detected	ug/L	60	VK 7/30/2002	
Barium 137	01007		6020	Not Detected	ug/L	200	VK 7/30/2002	
Thallium 205	01059		6020	Not Detected	ug/L	10	VK 7/30/2002	
Lead 207	01051		6020	Not Detected	ug/L	3	VK 7/30/2002	
<b>ICP TAL Metals in Water QC Batch 50662</b>								
Aluminum	01105		6010B	Not Detected	ug/L	200	LA 7/29/2002	
Calcium	00916		6010B	10000	ug/L	5000	LA 7/29/2002	
Iron	01045		6010B	11000	ug/L	100	LA 7/29/2002	
Potassium	00937		6010B	Not Detected	ug/L	5000	LA 7/29/2002	
Magnesium	00927		6010B	Not Detected	ug/L	5000	LA 7/29/2002	
Manganese	01055		6010B	720	ug/L	15	LA 7/29/2002	
Sodium	00929		6010B	5600	ug/L	5000	LA 7/29/2002	
<b>QC Batch 50620</b>								
Mercury	71900		EPA 7470A	Not Detected	ug/L	0.2	PB 7/19/2002	
<b>Pesticides in Water QC Batch 50512</b>								
TCMX surr std			EPA 8081A	0.385	ug/L	D	JSM 7/27/2002	0.240 to 0.560
DCB surr std			EPA 8081A	0.550	ug/L	D	JSM 7/27/2002	0.480 to 1.12
a-BHC			EPA 8081A	Not Detected	ug/L	D 0.05	JSM 7/27/2002	
b-BHC			EPA 8081A	Not Detected	ug/L	0.06	JSM 7/27/2002	
d-BHC			EPA 8081A	Not Detected	ug/L	0.15	JSM 7/27/2002	
LINDANE (g-BHC)			EPA 8081A	Not Detected	ug/L	D 0.05	JSM 7/27/2002	
CHLORDANE			EPA 8081A	Not Detected	ug/L	2.0	JSM 7/27/2002	
4,4-DDD			EPA 8081A	Not Detected	ug/L	D 0.10	JSM 7/27/2002	
4,4-DDE			EPA 8081A	Not Detected	ug/L	0.05	JSM 7/27/2002	
4,4-DDT			EPA 8081A	Not Detected	ug/L	D 0.06	JSM 7/27/2002	
DRIN			EPA 8081A	Not Detected	ug/L	D 0.05	JSM 7/27/2002	
ENDOSULFAN I			EPA 8081A	Not Detected	ug/L	D 0.10	JSM 7/27/2002	
ENDOSULFAN II			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
ENDOSULFAN SULFATE			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
ENDRIN			EPA 8081A	Not Detected	ug/L	D 0.10	JSM 7/27/2002	
ENDRIN ALDEHYDE			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
HEPTACHLOR			EPA 8081A	Not Detected	ug/L	D 0.05	JSM 7/27/2002	
HEPTACHLOR EPOXIDE			EPA 8081A	Not Detected	ug/L	0.05	JSM 7/27/2002	
TOXAPHENE			EPA 8081A	Not Detected	ug/L	D 3.0	JSM 7/27/2002	
CHLORPYRIFOS (DURBAN)			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
HEXACHLOROBENZENE			EPA 8081A	Not Detected	ug/L	0.05	JSM 7/27/2002	
METHOXYCHLOR			EPA 8081A	Not Detected	ug/L	D 0.20	JSM 7/27/2002	
MIREX			EPA 8081A	Not Detected	ug/L	D 0.30	JSM 7/27/2002	
ALDRIN			EPA 8081A	Not Detected	ug/L	0.05	JSM 7/27/2002	
gamma-CHLORDANE			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
alpha-CHLORDANE			EPA 8081A	Not Detected	ug/L	0.10	JSM 7/27/2002	
<b>PCBs in Water QC Batch 50513</b>								
TCMX surr std			EPA 8082	0.385	ug/L		JSM 8/1/2002	0.240 to 0.560
DCB surr std			EPA 8082	0.550	ug/L		JSM 8/1/2002	0.480 to 1.12
PCB-1016			EPA 8082	Not Detected	ug/L	1.0	JSM 8/1/2002	
PCB-1221			EPA 8082	Not Detected	ug/L	1.0	JSM 8/1/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
1232			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
1242			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1248			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1254			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1260			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	
PCB-1262			EPA 8082	Not Detected	ug/L	1.0	JSM	8/1/2002	

COMMENTS: \$8081H - "D" These compounds analyzed on 8/1/02 with all QC in compliance.

COMMENTS: \$8270W - "Not Analyzed" - Sample not analyzed for this compound. No valid 5 point curve due to lack of response in the 10 ppm standard. 7-072502-316

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
pb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

JUG 26 2002

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

ANDREW TAFT

Collection Date:

WEEK OF 7/15/2002

LAB No. \_\_\_\_\_

Date Submitted To Lab:

HWMB LOG NUMBER:

HW9130

File a separate Request Sheet for each sample point)



Sample ID AD71269

Location: HWMB

Description: VANTRAN ELECTRIC CORP/HW9130

Collector: A. TAFT

Sample ID: AD71269

Analysis Needed By:

Routine ☒

Other (specify \_\_\_\_\_)

Sample Description (check one)

Waste ☐

Ground Water ☐

Soil/Sediment ☒

Surface Water ☐

Sludge ☐

Drinking Water Well ☐

Concentration of Organics Requested (estimated): High ☐ Low ☐ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

Sediment duplicate of HW9129

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions: \_\_\_\_\_

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒

(Acid & Base/Neutral) ☒

Volatiles ☒

Pesticides ☒

Herbicides ☒

Organophosphorous Pesticides ☒

PCB ☒

BETX ☒

Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒

(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒

Mercury ☒

Metals Special Requests: ☒

CYANIDE

4 OZ JARS

8 OZ JARS

16 OZ JARS plastic

4 Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_

Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_

Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_

Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_

Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back): \_\_\_\_\_

Reviewed By: (HWMB): \_\_\_\_\_

Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By (EPD Lab): \_\_\_\_\_

Date (EPD Lab): \_\_\_\_\_

RECPT TEMP 0.0

TN

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Divison</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/16/2002 <b>Time Collected:</b> 10:10 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71269 <b>Facility Name:</b> Vantran Electric Corp/Hw9130 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9130	<b>Received By:</b> TNB <b>Date Received:</b> 7/17/2002 <b>Time Received:</b> 12:31 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C	

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	QUALIFIER UNITS	RL	ANALYST	ANALYSIS DATE	MCL or QC Range
<b>8260 Volatiles in Soil/Sed. QC Batch 50678</b>								
Dibromofluoromethane(Surrogate QC Std.)		EPA 8260	54	ug/kg (dw)	0.00	KDD	7/18/2002	33 to 75
Toluene-d8(Surrogate QC Std.)		EPA 8260	45	ug/kg (dw)	0.00	KDD	7/18/2002	39 to 68
Bromofluorobenzene(Surrogate QC Std.)		EPA 8260	38	ug/kg (dw)	0.00	KDD	7/18/2002	25 to 60
1,1-Dichloroethane-d4(Surrogate QC Std.)		EPA 8260	51	ug/kg (dw)	0.00	KDD	7/18/2002	35 to 65
Dichlorodifluoromethane	34334	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Chloromethane	34421	EPA 8260	Not Detected	ug/kg (dw)	24	KDD	7/18/2002	
Bromomethane	34416	EPA 8260	Not Detected	ug/kg (dw)	24	KDD	7/18/2002	
Vinyl Chloride	34495	EPA 8260	Not Detected	ug/kg (dw)	4.8	KDD	7/18/2002	
Chloroethane	34314	EPA 8260	Not Detected	ug/kg (dw)	24	KDD	7/18/2002	
Methylene Chloride	34426	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Trichlorofluoromethane	34491	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Acetone	75059	EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/18/2002	
Dibromomethane	78756	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
trans-1,2-Dichloroethene	34549	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Iodomethane	73121	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Carbon Disulfide	78544	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
1,1-Dichloroethene	34504	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
1,1-Dichloroethane	34499	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
cis-1,2-Dichloroethene	77093	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
2,2-Dichloropropane	77170	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Bromochloromethane	77297	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Chloroform	34318	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
1,1-Dichloropropene	77168	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
1,2-Dichloroethane	34534	EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
anone	75078		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/18/2002	
Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	120	KDD 7/18/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	120	KDD 7/18/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	120	KDD 7/18/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Toluene	34483		EPA 8260	Trace	ug/kg (dw)	12	KDD 7/18/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	24	KDD 7/18/2002	
ne	78362		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
p-Isopropyltoluene	77356		EPA 8260	66	ug/kg (dw) J	12	KDD 7/18/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw) J	12	KDD 7/18/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw) J	12	KDD 7/18/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw) J	12	KDD 7/18/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw) J	12	KDD 7/18/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw) J	12	KDD 7/18/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw) J	12	KDD 7/18/2002	
Naphthalene	34445		EPA 8260	Not Detected	ug/kg (dw) J	12	KDD 7/18/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw) J	12	KDD 7/18/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
b: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	24	KDD 7/18/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	24	KDD 7/18/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	24	KDD 7/18/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	24	KDD 7/18/2002	
Total Aldehydes			EPA 8260	120 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
Total Hydrocarbons			EPA 8260	1600 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
Total Alcohols			EPA 8260	70 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
<b>8270 Semi-Vol In Soil/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	77	ug/kg (dw)	0.00	PS 7/24/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	79	ug/kg (dw)	0.00	PS 7/24/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	77	ug/kg (dw)	0.00	PS 7/24/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	78	ug/kg (dw)	0.00	PS 7/24/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	87	ug/kg (dw)	0.00	PS 7/24/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	100	ug/kg (dw)	0.00	PS 7/24/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	9200	PS 7/24/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	23000	PS 7/24/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	9200	PS 7/24/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
2,4,6-Trichlorophenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	9200	PS	7/24/2002	
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
1,2,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Hexachlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	23000	PS	7/24/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	23000	PS	7/24/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	23000	PS	7/24/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	23000	PS	7/24/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
1-Naphthylamine			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
4,6-Dinitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	23000	PS	7/24/2002	
n-Nitrosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
1,2-Diphenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	23000	PS	7/24/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS	7/24/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	9200	PS	7/24/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Benzene	34323		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Diethylhexylphthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Di-n-octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Dibenz(a,i)acridine			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	12000	PS 7/24/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	23000	PS 7/24/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	9400	PS 7/24/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	23000	PS 7/24/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	12000	PS 7/24/2002	
p,p'-DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	4700	PS 7/24/2002	
1,2-Dimethylcyclooctane			EPA 8270C	5300 TIE	ug/kg (dw)		PS 7/24/2002	
Hexadecanoic acid			EPA 8270C	8600 TIE	ug/kg (dw)		PS 7/24/2002	
6-Cyclohexylododecane			EPA 8270C	5800 TIE	ug/kg (dw)		PS 7/24/2002	
Eicosane			EPA 8270C	20000 TIE	ug/kg (dw)		PS 7/24/2002	
1-Pentadecanol			EPA 8270C	7106 TIE	ug/kg (dw)		PS 7/24/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	18200	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	6800000	ug/kg (dw)	20000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	54000	ug/kg (dw)	20000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Barium	01013		6010 B	Not Detected	ug/kg (dw)	500	LA 7/23/2002	
Cadmium	00917		6010 B	680000	ug/kg (dw)	500000	LA 7/23/2002	
Cadmium	01028		6010 B	Not Detected	ug/kg (dw)	500	LA 7/23/2002	
Cobalt	01038		6010 B	6700	ug/kg (dw)	5000	LA 7/23/2002	
Chromium	01029		6010 B	9400	ug/kg (dw)	1000	LA 7/23/2002	
Copper	01043		6010 B	3300	ug/kg (dw)	2500	LA 7/23/2002	
Iron	01170		6010 B	17000000	ug/kg (dw)	100000	LA 7/23/2002	
Potassium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA 7/23/2002	
Magnesium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA 7/23/2002	
Manganese	01053		6010 B	650000	ug/kg (dw)	1500	LA 7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA 7/23/2002	
Nickel	01068		6010 B	Not Detected	ug/kg (dw)	4000	LA 7/23/2002	
Lead	01052		6010 B	Not Detected	ug/kg (dw)	9000	LA 7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA 7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA 7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA 7/23/2002	
Vanadium	01088		6010 B	15000	ug/kg (dw)	5000	LA 7/23/2002	
Zinc	01093		6010 B	19000	ug/kg (dw)	2000	LA 7/23/2002	

#### QC Batch 50675

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/25/2002
---------	-----------	--------------	------------	-----	----	-----------

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	13.7	ug/kg (dw)		PM	8/8/2002	10.0 to 30.0
DCB surr std	EPA 8081A	30.4	ug/kg (dw)		PM	8/8/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	16	PM	8/8/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	9.4	PM	8/8/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	14	PM	8/8/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	21	PM	8/8/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	4.7	PM	8/8/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	240	PM	8/8/2002	
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)	14	PM	8/8/2002	
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/8/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	31	PM	8/8/2002	
DIELDRIN	EPA 8081A	Not Detected	ug/kg (dw)	9.4	PM	8/8/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	24	PM	8/8/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/8/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	38	PM	8/8/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/8/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	16	PM	8/8/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	24	PM	8/8/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	19	PM	8/8/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	610	PM	8/8/2002	
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)	24	PM	8/8/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	4.7	PM	8/8/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	94	PM	8/8/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	16	PM	8/8/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	24	PM	8/8/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	24	PM	8/8/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
n: parts per million  
p: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>PCBs In Sediments or Soils QC Batch 50515</b>									
PCB-1016			EPA 8082	12.9	ug/kg (dw)		PM	8/2/2002	10.0 to 30.0
PCB-1221			EPA 8082	35.8	ug/kg (dw)		PM	8/2/2002	20.0 to 60.0
PCB-1232			EPA 8082	Not Detected	ug/kg (dw)	160	PM	8/2/2002	
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	160	PM	8/2/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	160	PM	8/2/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	160	PM	8/2/2002	
PCB-1260			EPA 8082	Not Detected	ug/kg (dw)	160	PM	8/2/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	160	PM	8/2/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/10/02 for this compound with all QC in compliance.

\$8081S - Reporting Limits elevated due to high concentrations of target and/or non-target compounds in the sample.

COMMENTS: \$8082S - Reporting Limits elevated due to high levels of target and/or non-target compounds.

COMMENTS: \$8260S- Sample had one internal standard compounds, 1,4-Dichlorobenzene-d4 (30% response, limits 50-200%) with response outside acceptable control limits due to matrix interferences. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-073102-328.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

AUG 28 2002

Facility Name/Location: VANTRAN ELECTRIC CORPORATION  
Sample Collected By/Phone: ANDREW TAFT (404) 656-2833  
Collection Date: WEEK OF 7/15/2001 LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER: HW 9129

File a separate Request Sheet for each sample point



Sample ID AD71268

Location: HWMB

Description: VANTRAN ELECTRIC CORP/HW9129

Collector: A. TAFT

Sample ID: AD71268

Analysis Needed By: Routine ☒ Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_  
Ground Water \_\_\_\_\_

Soil/Sediment ☒  
Surface Water \_\_\_\_\_

Sludge \_\_\_\_\_  
Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

Off-site sediment sample to determine absence/presence of haz substance

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could result)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒  
Volatiles ☒  
Pesticides ☒  
Herbicides ☒  
Organophosphorous Pesticides ☒  
PCB ☒  
BETX ☒  
Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒  
(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒  
Mercury ☒  
Metals Special Requests: ☒

CYANIDE

4 OZ JARS

8 OZ JARS

16 OZ JARS plastic

4 Enclaves

3. TCLP ORGANICS

Volatiles \_\_\_\_\_  
Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_  
Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_  
Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_  
Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB) \_\_\_\_\_  
Approved By: (HWMB) \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Reviewed By: (EPD Lab) \_\_\_\_\_  
Date (EPD Lab): \_\_\_\_\_

RECPT TEMP

0.0

TNE

# GEORGIA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

## LABORATORY REPORT

<b>TO:</b> Georgia Env Protection Division Hazardous Waste Mgmt Branch 205 Butler St SE Suite 1154E Atlanta, GA 30334	<b>Date Collected:</b> 7/16/2002 <b>Time Collected:</b> 9:45 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b> <b>Received By:</b> TNB <b>Date Received:</b> 7/17/2002 <b>Time Received:</b> 12:31 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C
<b>Sample ID:</b> AD71268 <b>Facility Name:</b> Vantran Electric Corp/Hw9129 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9129	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
<b>8260 Volatiles in Soil/Sed. QC Batch 50678</b>								
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	57	ug/kg (dw)	0.00	KDD 7/18/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	45	ug/kg (dw)	0.00	KDD 7/18/2002	39 to 68
Pentafluorobenzene(Surrogate QC Std.)			EPA 8260	39	ug/kg (dw)	0.00	KDD 7/18/2002	25 to 60
Perchloroethane-d4(Surrogate QC Std.)			EPA 8260	53	ug/kg (dw)	0.00	KDD 7/18/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	22	KDD 7/18/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	22	KDD 7/18/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	4.4	KDD 7/18/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	22	KDD 7/18/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	220	KDD 7/18/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
Chloroform	34318		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/18/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppm: parts per million  
 ppb: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
anone	75078		EPA 8260	Not Detected	ug/kg (dw)	220	KDD	7/18/2002	
1,1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	110	KDD	7/18/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	110	KDD	7/18/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	110	KDD	7/18/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Toluene	34483		EPA 8260	Trace	ug/kg (dw)	11	KDD	7/18/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	22	KDD	7/18/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	
p-Isopropyltoluene	77356		EPA 8260	210	ug/kg (dw)	J 11	KDD	7/18/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw)	J 11	KDD	7/18/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw)	J 11	KDD	7/18/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw)	J 11	KDD	7/18/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw)	J 11	KDD	7/18/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	J 11	KDD	7/18/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw)	J 11	KDD	7/18/2002	
Naphthalene	34445		EPA 8260	Not Detected	ug/kg (dw)	J 11	KDD	7/18/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw)	J 11	KDD	7/18/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/18/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
1,2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	22	KDD 7/18/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	22	KDD 7/18/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	22	KDD 7/18/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	22	KDD 7/18/2002	
Total Aldehydes			EPA 8260	520 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
Total Hydrocarbons			EPA 8260	2600 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
Total Alcohols			EPA 8260	100 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
<b>8270 Semi-Vol in Soil/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	84	ug/kg (dw)	0.00	PS 7/24/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	87	ug/kg (dw)	0.00	PS 7/24/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	84	ug/kg (dw)	0.00	PS 7/24/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	85	ug/kg (dw)	0.00	PS 7/24/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	99	ug/kg (dw)	0.00	PS 7/24/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	110	ug/kg (dw)	0.00	PS 7/24/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	8700	PS 7/24/2002	
2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/24/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	8700	PS 7/24/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS 7/24/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	8700	PS	7/24/2002	
1-methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
1,2,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Hexachlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/24/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/24/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/24/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/24/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
1-Naphthylamine			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
4,6-Dinitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/24/2002	
n-Nitrosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
1,2-Diphenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/24/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	8700	PS	7/24/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
n: parts per million  
p: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
Benzo[a]pyrene	34323		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
2-Ethylhexylphthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Di-n-octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Dibenz(a,i)acridine			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/24/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/24/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	8800	PS	7/24/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/24/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/24/2002	
p,p'-DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	4400	PS	7/24/2002	
Hexadecanoic acid			EPA 8270C	8500 TIE	ug/kg (dw)		PS	7/24/2002	
Cinnamyl cinnamate			EPA 8270C	12000 TIE	ug/kg (dw)		PS	7/24/2002	
Octadecane			EPA 8270C	24000 TIE	ug/kg (dw)		PS	7/24/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	19700	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	7300000	ug/kg (dw)	20000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	72000	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	1400000	ug/kg (dw)	500000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Barium	01028		6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002	
Cadmium	01038		6010 B	8000	ug/kg (dw)	5000	LA	7/23/2002	
Chromium	01029		6010 B	9400	ug/kg (dw)	1000	LA	7/23/2002	
Copper	01043		6010 B	4500	ug/kg (dw)	2500	LA	7/23/2002	
Iron	01170		6010 B	21000000	ug/kg (dw)	D 100000	LA	7/23/2002	
Potassium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Magnesium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	600000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	Not Detected	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	Not Detected	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	16000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	24000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50675

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/25/2002
---------	-----------	--------------	------------	-----	----	-----------

#### Pesticides In Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	15.8	ug/kg (dw)		PM	8/8/2002	10.0 to 30.0
DCB surr std	EPA 8081A	33.5	ug/kg (dw)		PM	8/8/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	16	PM	8/8/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	8.9	PM	8/8/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	13	PM	8/8/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/8/2002	
LINURANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	4.4	PM	8/8/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	220	PM	8/8/2002	
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)	13	PM	8/8/2002	
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	33	PM	8/8/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	29	PM	8/8/2002	
DIELDRIN	EPA 8081A	Not Detected	ug/kg (dw)	8.9	PM	8/8/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	22	PM	8/8/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	33	PM	8/8/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	36	PM	8/8/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	33	PM	8/8/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	16	PM	8/8/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	22	PM	8/8/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	18	PM	8/8/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	D 580	PM	8/8/2002	
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)	22	PM	8/8/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	4.4	PM	8/8/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	89	PM	8/8/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	16	PM	8/8/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	22	PM	8/8/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	22	PM	8/8/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>Bs in Sediments or Soils QC Batch 50515</b>									
MX surr std			EPA 8082	14.7	ug/kg (dw)		PM	8/2/2002	10.0 to 30.0
DCBP surr std			EPA 8082	34.6	ug/kg (dw)		PM	8/2/2002	20.0 to 60.0
PCB-1016			EPA 8082	Not Detected	ug/kg (dw)	150	PM	8/2/2002	
PCB-1221			EPA 8082	Not Detected	ug/kg (dw)	150	PM	8/2/2002	
PCB-1232			EPA 8082	Not Detected	ug/kg (dw)	150	PM	8/2/2002	
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	150	PM	8/2/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	150	PM	8/2/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	150	PM	8/2/2002	
PCB-1260			EPA 8082	Not Detected	ug/kg (dw)	150	PM	8/2/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	150	PM	8/2/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/10/02 for this compound with all QC in compliance.

\$8081S - Reporting Limits elevated due to high concentrations of target and/or non-target compounds in the sample.

COMMENTS: \$8082S - Reporting Limits elevated due to high levels of target and/or non-target compounds.

COMMENTS: \$8260S - Sample had one internal standard compounds, 1,4-Dichlorobenzene-d4 (29% response, limits 50-200%) with response outside acceptable control limits due to matrix interferences. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-073102-328.

COMMENTS: \$8270S - Reporting limits raised due to elevated concentrations of non-target compounds.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

1

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
pb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

10-26-2002

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

ANDREW TAFT (404) 656-2833

Collection Date:

WEEK OF 7/15/2001

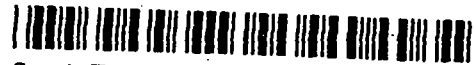
LAB No. \_\_\_\_\_

Date Submitted To Lab:

HWMB LOG NUMBER:

HW9128

File a separate Request Sheet for each sample point.



Sample ID AD71266

Location: HWMB

Description: VANTRAN ELECTRIC CORP/HW9128

Collector: A. TAFT

Sample ID: AD71266

Analysis Needed By:

Routine ☒

Other (spec)

Sample Description (check one)

Waste

Ground Water

Soil/Sediment

Surface Water

Sludge

Drinking Water Well

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

Off-site sediment sample to determine absence/presence of haz substance

Applicable Hazardous Waste Codes (if known)

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles

(Acid & Base/Neutral)

Volatiles

Pesticides

Herbicides

Organophosphorous Pesticides

PCB

BETX

Total Petroleum Hydrocarbon

Organics Special Requests:

2. TOTAL METALS

ICP Metals Scan

(Ag,As,Ba,Cd,Cr,Ni,Pb,Se)

Mercury

Metals Special Requests:

CYANIDE

4 OZ. JARS

8 OZ. JARS

16 OZ. JARS plastic

4 Encores

3. TCLP ORGANICS

Volatiles

Semi-Volatiles (Acid & Base/Neutral)

Additional Specific Organics for TCLP:

Pesticides

Herbicides

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se)

Mercury

Additional Metals for TCLP:

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB):

Approved By: (HWMB):

Date:

Date:

Reviewed By: (EPD Lab):

Date: (EPD Lab):

RECPT TEMP

0.0

TNE

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Division</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/16/2002 <b>Time Collected:</b> 11:52 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71266 <b>Facility Name:</b> Vantran Electric Corp/Hw9128 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9128	<b>Received By:</b> TNB <b>Date Received:</b> 7/17/2002 <b>Time Received:</b> 12:31 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 ° C	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>8260 Volatiles in Soil/Sed. QC Batch 50678</b>									
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	53	ug/kg (dw)	0.00	KDD	7/18/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	46	ug/kg (dw)	0.00	KDD	7/18/2002	39 to 68
p-fluorobenzene(Surrogate QC Std.)			EPA 8260	38	ug/kg (dw)	0.00	KDD	7/18/2002	25 to 60
1,1-dichloroethane-d4(Surrogate QC Std.)			EPA 8260	48	ug/kg (dw)	0.00	KDD	7/18/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	19	KDD	7/18/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	19	KDD	7/18/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	3.8	KDD	7/18/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	19	KDD	7/18/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	190	KDD	7/18/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
Chloroform	34318		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD	7/18/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
pb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
acetone	75078		EPA 8260	Not Detected	ug/kg (dw)	190	KDD 7/18/2002	
1,1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	95	KDD 7/18/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	95	KDD 7/18/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	95	KDD 7/18/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Toluene	34483		EPA 8260	Trace	ug/kg (dw)	9.5	KDD 7/18/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	19	KDD 7/18/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	
p-Isopropyltoluene	77356		EPA 8260	70	ug/kg (dw) J	9.5	KDD 7/18/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw) J	9.5	KDD 7/18/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw) J	9.5	KDD 7/18/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw) J	9.5	KDD 7/18/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw) J	9.5	KDD 7/18/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw) J	9.5	KDD 7/18/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw) J	9.5	KDD 7/18/2002	
Naphthalene	34445		EPA 8260	Not Detected	ug/kg (dw) J	9.5	KDD 7/18/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw) J	9.5	KDD 7/18/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	9.5	KDD 7/18/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
1,1,1-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	19	KDD 7/18/2002	
1,1-Dichloroethyl acetate			EPA 8260	Not Detected	ug/kg (dw)	19	KDD 7/18/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	19	KDD 7/18/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	19	KDD 7/18/2002	
Total Aldehydes			EPA 8260	460 TIE	ug/kg (dw)		KDD 7/18/2002	
Total Hydrocarbons			EPA 8260	700 TIE	ug/kg (dw)		KDD 7/18/2002	
<b>8270 Semi-Vol in Sol/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C 73		ug/kg (dw)	0.00	PS 7/29/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C 85		ug/kg (dw)	0.00	PS 7/29/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C 84		ug/kg (dw)	0.00	PS 7/29/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C 89		ug/kg (dw)	0.00	PS 7/29/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C 87		ug/kg (dw)	0.00	PS 7/29/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C 85		ug/kg (dw)	0.00	PS 7/29/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	2900	PS 7/29/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	7300	PS 7/29/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	2900	PS 7/29/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS 7/29/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	2900	PS 7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
p: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA		QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE	METHOD	RESULT	UNITS	RL	ANALYST DATE		
1-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
1,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Hexachlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	7300	PS	7/29/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	7300	PS	7/29/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	7300	PS	7/29/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	7300	PS	7/29/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
4-Nitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	7300	PS	7/29/2002	
n-Nitrosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
1,2-Diphenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	7300	PS	7/29/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	2900	PS	7/29/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
(2-Ethylhexyl)phthalate	39102	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
n-octylphthalate	34599	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Benzo[b]fluoranthene	34233	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Benzo[k]fluoranthene	34245	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
7,12-Dimethylbenz(a)anthracene	73115	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Benzo[a]pyrene	34250	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
3-Methylcholanthrene	73156	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Dibenz(a,i)acridine		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Indeno[1,2,3-cd]pyrene	34406	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Dibenz[a,h]anthracene	34559	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Benzo[g,h,i]perylene	34524	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Pyridine	73312	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Alpha-BHC	39076	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Gamma-BHC	39343	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Beta-BHC	34257	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Delta-BHC	34262	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Heptachlor	39413	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Aldrin	39333	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Heptachlor Epoxide	39423	EPA 8270C	Not Detected	ug/kg (dw)	3600	PS	7/29/2002	
Endosulfan 1	34364	EPA 8270C	Not Detected	ug/kg (dw)	7300	PS	7/29/2002	
Dieldrin	39383	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
p,p'-DDE	39321	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Endrin	39393	EPA 8270C	Not Detected	ug/kg (dw)	2900	PS	7/29/2002	
Endosulfan 2	34359	EPA 8270C	Not Detected	ug/kg (dw)	7300	PS	7/29/2002	
p,p'-DDD	39311	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Endrin Aldehyde	34369	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Endosulfan Sulfate	34354	EPA 8270C	Not Detected	ug/kg (dw)	3600	PS	7/29/2002	
p,p'-DDT	39301	EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Benzaldehyde		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Caprolactam		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
1,1'-Biphenyl		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Atrazine		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Carbazole		EPA 8270C	Not Detected	ug/kg (dw)	1500	PS	7/29/2002	
Hexatriacontane		EPA 8270C	2700 TIE	ug/kg (dw)	0.00	PS	7/29/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	14500	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	16000000	ug/kg (dw)	D 200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	44000	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	28000	ug/kg (dw)	1000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
pm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Mercury	01043		6010 B	7800	ug/kg (dw)		LA	7/23/2002	
Potassium	01170		6010 B	19000000	ug/kg (dw)	D	LA	7/23/2002	
Magnesium	00938		6010 B	Not Detected	ug/kg (dw)		LA	7/23/2002	
Manganese	00924		6010 B	Not Detected	ug/kg (dw)		LA	7/23/2002	
Sodium	01053		6010 B	150000	ug/kg (dw)		LA	7/23/2002	
Nickel	00934		6010 B	Not Detected	ug/kg (dw)		LA	7/23/2002	
Lead	01068		6010 B	5900	ug/kg (dw)		LA	7/23/2002	
Antimony	01052		6010 B	23000	ug/kg (dw)		LA	7/23/2002	
Selenium	01098		6010 B	Not Detected	ug/kg (dw)		LA	7/23/2002	
Thallium	01148		6010 B	Not Detected	ug/kg (dw)		LA	7/23/2002	
Vanadium	34480		6010 B	Not Detected	ug/kg (dw)		LA	7/23/2002	
Zinc	01088		6010 B	33000	ug/kg (dw)		LA	7/23/2002	
	01093		6010 B	48000	ug/kg (dw)		LA	7/23/2002	

#### QC Batch 50675

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/25/2002
---------	-----------	--------------	------------	-----	----	-----------

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	14.5	ug/kg (dw)		PM	8/8/2002	10.0 to 30.0
DCB surr std	EPA 8081A	34.4	ug/kg (dw)		PM	8/8/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	2.0	PM	8/8/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	3.0	PM	8/8/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	4.5	PM	8/8/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	1.0	PM	8/8/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/8/2002	
4,4-DDE	EPA 8081A	19	ug/kg (dw)	3.0	PM	8/8/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
4,4'-DDT	EPA 8081A	Not Detected	ug/kg (dw)	6.5	PM	8/8/2002	
DIELDRIN	EPA 8081A	Not Detected	ug/kg (dw)	2.0	PM	8/8/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	8.0	PM	8/8/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	4.0	PM	8/8/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	130	PM	8/8/2002	
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	1.0	PM	8/8/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/8/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std	EPA 8082	14.1	ug/kg (dw)		PM	8/6/2002	10.0 to 30.0
DCBP surr std	EPA 8082	36.7	ug/kg (dw)		PM	8/6/2002	20.0 to 60.0
PCB-1016	EPA 8082	Not Detected	ug/kg (dw)	48	PM	8/6/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics: Pat Sammons 404-206-5239  
Metals: Mark Tolbert 404-206-5240  
Organics: Danny Reed 404-206-5252  
GC Mass Spec: Steve Bryan 404-206-5260  
Microbiology: Viola Reynolds 404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
3-1221			EPA 8082	Not Detected	ug/kg (dw)	48	PM	8/6/2002	
3-1232			EPA 8082	Not Detected	ug/kg (dw)	48	PM	8/6/2002	
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	48	PM	8/6/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	48	PM	8/6/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	48	PM	8/6/2002	
PCB-1260			EPA 8082	Not Detected	ug/kg (dw)	48	PM	8/6/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	48	PM	8/6/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/10/02 for this compound with all QC in compliance.

COMMENTS: \$8082S - Reporting Limits elevated for all analytes due to high levels of target and/or non-target compounds.

COMMENTS: \$8260S- Sample had one internal standard compounds, 1,4-Dichlorobenzene-d4 (33% response, limits 50-200%) with response outside acceptable control limits due to matrix interferences. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-073102-328.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
b: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

AUG 26 2002

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

ANDREW TAFT (404) 656-2833

Collection Date:

WEEK OF 7/15/2001

LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER:

HW9127

*File a separate Request Sheet for each sample point*

Analysis Needed By:

Routine ☒

Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_

Ground Water \_\_\_\_\_

Soil/Sediment \_\_\_\_\_

Surface Water ☒

Sludge \_\_\_\_\_

Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample including Source and Known Properties (e.g. pH, concentration):

Off-site sediment sample to determine absence/presence of haz substances

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒

(Acid & Base/Neutral) ☒

Volatiles ☒

Pesticides ☒

Herbicides ☒

Organophosphorous Pesticides ☒

PCB ☒

BETX ☒

Total Petroleum Hydrocarbon ☒

Organics Special Requests: 4

2. TOTAL METALS

ICP Metals Scan ☒

(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒

Mercury ☒

Metals Special Requests: ☒

CYANIDE

4 OZ. JARS

8 OZ. JARS

16 OZ. JARS plastic

4 Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_

Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_

Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_

Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_

Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_

Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By (EPD Lab): TB

Date (EPD Lab): 7-16-02

TNB

RECPT TEMP 0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Divison</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/15/2002 <b>Time Collected:</b> 14:40 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71060 <b>Facility Name:</b> Vantran Electric Corp./ Hw9127 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9127	<b>Received By:</b> TNB <b>Date Received:</b> 7/16/2002 <b>Time Received:</b> 1:40 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
<b>8260 Volatiles in Soil/Sed. QC Batch 50679</b>									
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	53	ug/kg (dw)	0.00	KDD	7/22/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	51	ug/kg (dw)	0.00	KDD	7/22/2002	39 to 68
Fluorobenzene(Surrogate QC Std.)			EPA 8260	49	ug/kg (dw)	0.00	KDD	7/22/2002	25 to 60
1,1-Dichloroethane-d4(Surrogate QC Std.)			EPA 8260	50	ug/kg (dw)	0.00	KDD	7/22/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	2.1	KDD	7/22/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	110	KDD	7/22/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Chloroform	34318		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
pb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
	CODE	NOTE					ANALYST	DATE	
acetone	75078		EPA 8260	Not Detected	ug/kg (dw)	110	KDD	7/22/2002	
1,1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	54	KDD	7/22/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	54	KDD	7/22/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	54	KDD	7/22/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Toluene	34483		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Isopropylbenzene	78362		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Bromobenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
n-Propylbenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
2-Chlorotoluene	77224		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,3,5-Trimethylbenzene	77225		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
4-Chlorotoluene	77226		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
tert-Butylbenzene	77277		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,4-Trimethylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
sec-Butylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,3-Dichlorobenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
p-Isopropyltoluene	34569		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,4-Dichlorobenzene	77356		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
n-Butylbenzene	34574		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dichlorobenzene	77342		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dibromo-3-chloropropane	34539		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,4-Trichlorobenzene	99999		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Hexachlorobutadiene	34554		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Naphthalene	39705		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,3-Trichlorobenzene	34445		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Methyl tert-butyl ether	77613		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
n: parts per million  
p: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/22/2002	
ethyl acetate			EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/22/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/22/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	11	KDD 7/22/2002	
Hexanal			EPA 8260	15 TIE	ug/kg (dw)	0.00	KDD 7/22/2002	
<b>8270 Semi-Vol in Sol/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	61	ug/kg (dw)	0.00	PS 7/29/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	68	ug/kg (dw)	0.00	PS 7/29/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	64	ug/kg (dw)	0.00	PS 7/29/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	72	ug/kg (dw)	0.00	PS 7/29/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	87	ug/kg (dw)	0.00	PS 7/29/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	80	ug/kg (dw)	0.00	PS 7/29/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
phenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	29000	PS 7/29/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS 7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
n: parts per million  
p: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
1,2,3,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
1,2,3,4,6-Pentachlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	29000	PS	7/29/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	29000	PS	7/29/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	29000	PS	7/29/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	29000	PS	7/29/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
4,6-Dinitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	29000	PS	7/29/2002	
1,4-Bisodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
1,2-Diphenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	29000	PS	7/29/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
bis(2-Ethylhexyl)phthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppm: parts per million  
 ppb: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
Octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Dibenz(a,j)acridine			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	15000	PS	7/29/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	29000	PS	7/29/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	12000	PS	7/29/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	29000	PS	7/29/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	15000	PS	7/29/2002	
Endrin DT	39301		EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	5800	PS	7/29/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	10000	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	8700000	ug/kg (dw)	20000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	20000	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	7500	ug/kg (dw)	1000	LA	7/23/2002
Copper	01043	6010 B	4800	ug/kg (dw)	2500	LA	7/23/2002
Iron	01170	6010 B	1500000	ug/kg (dw)	10000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
Potassium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Magnesium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	16000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	Not Detected	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	Not Detected	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	11000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	15000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50621

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/22/2002	
---------	-----------	--------------	------------	-----	----	-----------	--

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	15.9	ug/kg (dw)		PM	8/8/2002	10.0 to 30.0
DCB surr std	EPA 8081A	36.0	ug/kg (dw)		PM	8/8/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	2.0	PM	8/8/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	3.0	PM	8/8/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	4.5	PM	8/8/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	1.0	PM	8/8/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/8/2002	
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)	3.0	PM	8/8/2002	
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	6.5	PM	8/8/2002	
DRIN	EPA 8081A	Not Detected	ug/kg (dw)	2.0	PM	8/8/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	8.0	PM	8/8/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	4.0	PM	8/8/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	D 130	PM	8/8/2002	
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
HEXACHLORO BENZENE	EPA 8081A	Not Detected	ug/kg (dw)	1.0	PM	8/8/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/8/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std	EPA 8082	15.9	ug/kg (dw)		PM	8/2/2002	10.0 to 30.0
DCBP surr std	EPA 8082	37.5	ug/kg (dw)		PM	8/2/2002	20.0 to 60.0
PCB-1016	EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1221	EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1232	EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA	RESULT	UNITS	QUALIFIER	ANALYSIS		MCL or QC Range
	CODE	NOTE	METHOD			RL	ANALYST	DATE	
1242			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1260			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/11/02 for this compound with all QC in compliance.

COMMENTS: \$8270S - Reporting limits raised due to elevated concentrations of non-target compounds.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
um: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

JUG 26 2001

Facility Name/Location: VANTRAN ELECTRIC CORPORATION  
Sample Collected By/Phone: ANDREW TAFT (404) 656-2833  
Collection Date: WEEK OF 7/15/2001 LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER: HW9126

File a separate Request Sheet for each sample point)



Sample ID AD71264

Location: HWMB

Description: VANTRAN ELECTRIC CORP/HW9126

Collector: A. TAFT

Sample ID: AD71264

Analysis Needed By: Routine ☒ Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_  
Ground Water \_\_\_\_\_

Soil/Sediment ☒  
Surface Water \_\_\_\_\_

Sludge \_\_\_\_\_  
Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration):

Off-site sediment sample to determine absence/presence of haz substan

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒  
Volatiles ☒  
Pesticides ☒  
Herbicides ☒  
Organophosphorous Pesticides ☒  
PCB ☒  
BETX ☒  
Total Petroleum Hydrocarbon ☒

2. TOTAL METALS

ICP Metals Scan ☒  
(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒  
Mercury ☒  
Metals Special Requests: ☒

CYANIDE

Organics Special Requests: \_\_\_\_\_

4 OZ JARS

8 OZ JARS

16 OZ JARS plastic

4 Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_  
Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_  
Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_  
Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_  
Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_  
Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Reviewed By (EPD Lab): \_\_\_\_\_  
Date (EPD Lab): \_\_\_\_\_

RECPT TEMP 0.0

TNE

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

TO: Georgia Env Protection Division Hazardous Waste Mgmt Branch 205 Butler St SE Suite 1154E Atlanta, GA 30334		Date Collected: 7/16/2002 Time Collected: 8:30 Sample Collector: A. TAFT Chlorination: Sample Type:
Sample ID: AD71264 Facility Name: Vantran Electric Corp/Hw9126 Site ID: HWMB Location ID: Location Descr: HW9126	Received By: TNB Date Received: 7/17/2002 Time Received: 12:31 PM Project: HW Reporting Date: 8/22/2002 Received Temperature: 0.0 °C	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
<b>8260 Volatiles in Soil/Sed. QC Batch 50678</b>									
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	51	ug/kg (dw)	0.00	KDD	7/25/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	49	ug/kg (dw)	0.00	KDD	7/25/2002	39 to 68
Bromofluorobenzene(Surrogate QC Std.)			EPA 8260	44	ug/kg (dw)	0.00	KDD	7/25/2002	25 to 60
1,1,1-trichloroethane-d4(Surrogate QC Std.)			EPA 8260	49	ug/kg (dw)	0.00	KDD	7/25/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/25/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/25/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	2.1	KDD	7/25/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/25/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	100	KDD	7/25/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
Chloroform	34318		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD	7/25/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 n: parts per million  
 p: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Pentanone	75078	EPA 8260	Not Detected	ug/kg (dw)	100	KDD 7/25/2002	
Trichloroethane	34509	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Carbon Tetrachloride	34299	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Vinyl Acetate	78498	EPA 8260	Not Detected	ug/kg (dw)	52	KDD 7/25/2002	
Bromodichloromethane	34330	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,2-Dichloropropane	34544	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Trichloroethene	34487	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Benzene	34237	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
cis-1,3-Dichloropropene	34702	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
trans-1,3-Dichloropropene	34697	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Dibromochloromethane	34309	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,1,2-Trichloroethane	34514	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Bromoform	34290	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,2,3-Trichloropropane	78490	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
4-Methyl-2-Pentanone	75169	EPA 8260	Not Detected	ug/kg (dw)	52	KDD 7/25/2002	
2-Hexanone	75166	EPA 8260	Not Detected	ug/kg (dw)	52	KDD 7/25/2002	
Tetrachloroethene	34478	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,3-Dichloropropane	77173	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,1,2,2-Tetrachloroethane	34519	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Toluene	34483	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,2-Dibromoethane	79749	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Chlorobenzene	34304	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Ethylbenzene	34374	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,1,1,2-Tetrachloroethane		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Styrene	75192	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
p,m-Xylene	45510	EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
o-Xylene	78362	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Isopropylbenzene	77223	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Bromobenzene	78491	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
n-Propylbenzene	77224	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
2-Chlorotoluene	77225	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,3,5-Trimethylbenzene	77226	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
4-Chlorotoluene	77277	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
tert-Butylbenzene	77353	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,2,4-Trimethylbenzene	34554	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
sec-Butylbenzene	77350	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,3-Dichlorobenzene	34569	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
p-Isopropyltoluene	77356	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,4-Dichlorobenzene	34574	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
n-Butylbenzene	77342	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,2-Dichlorobenzene	34539	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,2-Dibromo-3-chloropropane	99999	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
1,2,4-Trichlorobenzene	34554	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Hexachlorobutadiene	39705	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Naphthalene	34445	EPA 8260	Trace	ug/kg (dw)	5.2	KDD 7/25/2002	
1,2,3-Trichlorobenzene	77613	EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	
Methyl tert-butyl ether		EPA 8260	Not Detected	ug/kg (dw)	5.2	KDD 7/25/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Ethyl acetate			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Total Aldehydes			EPA 8260	92 TIE	ug/kg (dw)	0.00	KDD 7/25/2002	
Total Hydrocarbons			EPA 8260	28 TIE	ug/kg (dw)	0.00	KDD 7/25/2002	
<b>8270 Semi-Vol in Soil/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	91	ug/kg (dw)	0.00	PS 7/24/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	97	ug/kg (dw)	0.00	PS 7/24/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	95	ug/kg (dw)	0.00	PS 7/24/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	95	ug/kg (dw)	0.00	PS 7/24/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	98	ug/kg (dw)	0.00	PS 7/24/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	130	ug/kg (dw)	0.00	PS 7/24/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS 7/24/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
1-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	5600	PS 7/24/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS 7/24/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 7/24/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS 7/24/2002	
<div> <div> ug/L: micrograms/liter  mg/L: milligrams/liter  mg/kg: milligrams/kilogram  ug/kg: micrograms/kilogram  ug/g: micrograms/gram  m: parts per million  p: parts per billion  org/L: organisms/liter </div> <div> &lt;: less than  MCL: Maximum Contaminant Level  RL: Reporting Limit  LSPC: result less than lower specification  USPC: result greater than upper specification  TIE: Tentatively Identified or Estimated  VIOL: Violation (result exceeds MCL) </div> <div> <b>Laboratory Contacts:</b>  Inorganics: Pat Sammons 404-206-5239  Metals: Mark Tolbert 404-206-5240  Organics: Danny Reed 404-206-5252  GC Mass Spec: Steve Bryan 404-206-5260  Microbiology: Viola Reynolds 404-206-5210 </div> </div>								

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
1-Ethynaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Hexachlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	7/24/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	7/24/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	7/24/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	7/24/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-nitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	7/24/2002	
n-Nitrosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1,2-Diphenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	7/24/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS	7/24/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
1-Ethylhexylphthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1-Octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Dibenz(a,j)acridine			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	2800	PS	7/24/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	7/24/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS	7/24/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	7/24/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	2800	PS	7/24/2002	
p,p'-DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
7,12-Dimethylbenz(a)anthracene			EPA 8270C	Not Detected	ug/kg (dw)	0.00	PS	7/24/2002	
Tricosane			EPA 8270C	1700 TIE	ug/kg (dw)		PS	7/24/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	10400	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	22000000	ug/kg (dw)	D 200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	25000	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
ug/kg: milligrams/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
Mercury	01029		6010 B	26000	ug/kg (dw)	1000	LA	7/23/2002	
Iron	01043		6010 B	6300	ug/kg (dw)	2500	LA	7/23/2002	
Potassium	01170		6010 B	7900000	ug/kg (dw)	10000	LA	7/23/2002	
Magnesium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Sodium	01053		6010 B	14000	ug/kg (dw)	1500	LA	7/23/2002	
Nickel	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Lead	01068		6010 B	5800	ug/kg (dw)	4000	LA	7/23/2002	
Antimony	01052		6010 B	11000	ug/kg (dw)	9000	LA	7/23/2002	
Selenium	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Thallium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Vanadium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Zinc	01088		6010 B	48000	ug/kg (dw)	5000	LA	7/23/2002	
	01093		6010 B	11000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50675

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/25/2002	
---------	-----------	--------------	------------	-----	----	-----------	--

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	17.4	ug/kg (dw)		PM	8/8/2002	10.0 to 30.0
DCB surr std	EPA 8081A	42.6	ug/kg (dw)		PM	8/8/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	2.0	PM	8/8/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	3.0	PM	8/8/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	4.5	PM	8/8/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	1.0	PM	8/8/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/8/2002	
DDT	EPA 8081A	Not Detected	ug/kg (dw)	3.0	PM	8/8/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
DIELDRIN	EPA 8081A	Not Detected	ug/kg (dw)	6.5	PM	8/8/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	2.0	PM	8/8/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	8.0	PM	8/8/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/8/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	4.0	PM	8/8/2002	
CHLORPYRIFOS (DURSABAN)	EPA 8081A	Not Detected	ug/kg (dw)	130	PM	8/8/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	1.0	PM	8/8/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/8/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/8/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/8/2002	

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std	EPA 8082	15.1	ug/kg (dw)		PM	8/6/2002	10.0 to 30.0
DCBP surr std	EPA 8082	37.9	ug/kg (dw)		PM	8/6/2002	20.0 to 60.0

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
PCB-1016			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/6/2002	
PCB-1221			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/6/2002	
PCB-1232			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/6/2002	
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/6/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/6/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/6/2002	
PCB-1260			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/6/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/6/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/11/02 for this compound with all QC in compliance.

COMMENTS: \$P\_TAL\_S : ICP Metals - Matrix Spike Duplicate had one analyte, Selenium (19.7 RPD precision, limits 0-15 ) , with a precision outside acceptable control limits due to high concentration of analytes in sample. 2-072302-197

COMMENTS: \$R\_TAL\_S: ICP Metals - Matrix Spike had four analytes, Aluminum ( 11000% recovery, limits 70-130%), Iron (0.0% recovery, limits 70-130%)Potassium( 133% recovery, limits 70-130%),and Zinc (135% recovery, limits 70-130%),with a percent recovery outside acceptable control limits due to high concentration of target analytes in sample. Matrix spike had one analyte, Antimony (58% recovery, limits 70-130%), with a percent recovery outside acceptable control limits due to matrix interference. 2-072302-197.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

JUG 26 2001

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

ANDREW TAFT (404) 656-2833

Collection Date:

WEEK OF 7/15/2001

LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER:

HW9125

File a separate Request Sheet for each sample point



Sample ID AD71262

Location: HWMB

Description: VANTRAN ELECTRIC CORP/HW9125

Collector: A. TAFT

Sample ID: AD71262

Analysis Needed By:

Routine ☒

Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_

Ground Water \_\_\_\_\_

Soil/Sediment ☒

Surface Water \_\_\_\_\_

Sludge \_\_\_\_\_

Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample including Source and Known Properties (e.g. pH, concentration);

Off-site sediment sample to determine absence/presence of haz substance

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒

(Acid & Base/Neutral) ☒

Volatiles ☒

Pesticides ☒

Herbicides ☒

Organophosphorous Pesticides ☒

PCB ☒

BETX ☒

Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒

(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒

Mercury ☒

Metals Special Requests: ☒

CYANIDE

4 OZ. JARS

8 OZ. JARS

16 OZ. JARS plastic

4 Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_

Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_

Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_

Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_

Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_

Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By: (EPD Lab): \_\_\_\_\_

Date: (EPD Lab): \_\_\_\_\_

TNB

RECPT TEMP 0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Divison</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/16/2002 <b>Time Collected:</b> 9:30 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71262 <b>Facility Name:</b> Vantran Electric Corp/Hw9125 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9125	<b>Received By:</b> TNB <b>Date Received:</b> 7/17/2002 <b>Time Received:</b> 12:31 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>8260 Volatiles in Soil/Sed. QC Batch 50678</b>									
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	52	ug/kg (dw)	0.00	KDD	7/18/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	45	ug/kg (dw)	0.00	KDD	7/18/2002	39 to 68
Bromofluorobenzene(Surrogate QC Std.)			EPA 8260	35	ug/kg (dw)	0.00	KDD	7/18/2002	25 to 60
1,1-Dichloroethane-d4(Surrogate QC Std.)			EPA 8260	48	ug/kg (dw)	0.00	KDD	7/18/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	2.4	KDD	7/18/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	120	KDD	7/18/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Chloroform	34318		EPA 8260	Trace	ug/kg (dw)	6.1	KDD	7/18/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppb: parts per billion  
 pfu/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
2-Pentanone	75078		EPA 8260	Not Detected	ug/kg (dw)	120	KDD 7/18/2002	
1,1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	61	KDD 7/18/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	61	KDD 7/18/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	61	KDD 7/18/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Toluene	34483		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw) J	6.1	KDD 7/18/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw) J	6.1	KDD 7/18/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw) J	6.1	KDD 7/18/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw) J	6.1	KDD 7/18/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw) J	6.1	KDD 7/18/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw) J	6.1	KDD 7/18/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw) J	6.1	KDD 7/18/2002	
Naphthalene	34445		EPA 8260	Trace	ug/kg (dw) J	6.1	KDD 7/18/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw) J	6.1	KDD 7/18/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD 7/18/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
cfu/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Pentane			EPA 8260	7.3 TIE	ug/kg (dw)		KDD 7/18/2002	
Total Aldehydes			EPA 8260	80 TIE	ug/kg (dw)		KDD 7/18/2002	
1-Hexanol			EPA 8260	8 TIE	ug/kg (dw)		KDD 7/18/2002	
Total Hydrocarbons			EPA 8260	210 TIE	ug/kg (dw)		KDD 7/18/2002	
3-Octanone			EPA 8260	7 TIE	ug/kg (dw)		KDD 7/18/2002	
<b>8270 Semi-Vol in Soil/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	80	ug/kg (dw)	0.00	PS 7/29/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	88	ug/kg (dw)	0.00	PS 7/29/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	85	ug/kg (dw)	0.00	PS 7/29/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	86	ug/kg (dw)	0.00	PS 7/29/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	96	ug/kg (dw)	0.00	PS 7/29/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	85	ug/kg (dw)	0.00	PS 7/29/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Methyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS 7/29/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
1-Chlorobutadiene	38705	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1,2-Dichloro-di-n-butylamine	73159	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Chloro-3-methylphenol	34455	EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/29/2002	
2-Methylnaphthalene	78868	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1,2,4,5-Tetrachlorobenzene	79787	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Hexachlorocyclopentadiene	34389	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4,6-Trichlorophenol	34624	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4,5-Trichlorophenol	78401	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2-Chloronaphthalene	34584	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1-Chloronaphthalene		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2-Nitroaniline	78299	EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Dimethylphthalate	34344	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Acenaphthylene	34203	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,6-Dinitrotoluene	34629	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
3-Nitroaniline	78869	EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Acenaphthene	34208	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4-Dinitrophenol	34619	EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
4-Nitrophenol	34649	EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Dibenzofuran	75647	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pentachlorobenzene	79790	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4-Dinitrotoluene	34614	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1-Naphthylamine	73143	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2-Naphthylamine	73124	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,3,4,6-Tetrachlorophenol		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Diethylphthalate	34339	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Fluorene	34384	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Bromophenyl-phenylether	34644	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Nitroaniline	78870	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Diphenylamine		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4,6-Dinitro-2-methylphenol	34660	EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
n-Nitrosodiphenylamine	34436	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1,2-Diphenylhydrazine	34349	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Bromophenyl-phenylether	34639	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Phenacetin	73117	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Hexachlorobenzene	39701	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Aminobiphenyl	73125	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pentachlorophenol	39061	EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Pronamide	73031	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pentachloronitrobenzene	81808	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Phenanthrene	34464	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Anthracene	34223	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Di-n-butylphthalate	39112	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Fluoranthene	34379	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzidine	39121	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pyrene	34472	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
p-Dimethylaminoazobenzene	73116	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Butylbenzylphthalate	34295	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Ethylhexyl)phthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Di-n-octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Dibenz(a,j)acridine			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	28000	PS 7/29/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS 7/29/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS 7/29/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	28000	PS 7/29/2002	
p,p'-DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	9980	BS	7/24/2002
---------------------	-------	------------	--------------	------------	------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	22000000	ug/kg (dw)	D 200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	40000	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
n: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA	RESULT	QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE	METHOD		UNITS	RL	ANALYST	DATE	
Barium	01038		6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002	
Bromine	01029		6010 B	18000	ug/kg (dw)	1000	LA	7/23/2002	
Copper	01043		6010 B	18000	ug/kg (dw)	2500	LA	7/23/2002	
Iron	01170		6010 B	5100000	ug/kg (dw)	10000	LA	7/23/2002	
Potassium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Magnesium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	38000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	6000	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	19000	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	22000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	19000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50675

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/25/2002	
---------	-----------	--------------	------------	-----	----	-----------	--

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	Not Detected	ug/kg (dw)		PM	8/4/2002	10.0 to 30.0
DCB surr std	EPA 8081A	23.9	ug/kg (dw)		PM	8/4/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	30	PM	8/4/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	45	PM	8/4/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	10	PM	8/4/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	500	PM	8/4/2002	
DDE	EPA 8081A	Not Detected	ug/kg (dw)	30	PM	8/4/2002	
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	65	PM	8/4/2002	
DIELDRIN	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	80	PM	8/4/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	40	PM	8/4/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	D 1300	PM	8/4/2002	
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	10	PM	8/4/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	200	PM	8/4/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std	EPA 8082	21.6	ug/kg (dw)		PM	8/3/2002	10.0 to 30.0
---------------	----------	------	------------	--	----	----------	--------------

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
surrogate std	U		EPA 8082	62.0	ug/kg (dw)		PM 8/3/2002	20.0 to 60.0
1016			EPA 8082	Not Detected	ug/kg (dw)	330	PM 8/3/2002	
PCB-1221			EPA 8082	Not Detected	ug/kg (dw)	330	PM 8/3/2002	
PCB-1232			EPA 8082	Not Detected	ug/kg (dw)	330	PM 8/3/2002	
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	330	PM 8/3/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	330	PM 8/3/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	330	PM 8/3/2002	
PCB-1260			EPA 8082	3200	ug/kg (dw)	330	PM 8/3/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	330	PM 8/3/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/10/02 for this compound with all QC in compliance.

\$8081S - Reporting Limits elevated due to high concentrations of target and/or non-target compounds in the sample.

\$8081S - One surrogate, TCMX, lost to sample dilution for high levels of target and/or non-target compounds. 1-082102-604

COMMENTS: \$8082S - Sample surrogate compound, DCB (155% recovery, limits 50 - 150%) had a percent recovery outside acceptable limits due to matrix interferences. 1-081402-580

\$8082S - Reporting Limits elevated due to high levels of target and/or non-target compounds.

COMMENTS: \$8260S - Sample had one internal standard compounds, 1,4-Dichlorobenzene-d4 (29% response, limits 50-200%) with response outside acceptable control limits due to matrix interferences. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-073102-328.

COMMENTS: \$8270S - Reporting limits raised due to elevated concentrations of non-target compounds.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

AUG 26 2002

Facility Name/Location: VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone: ANDREW TAFT (404) 656-2833

Collection Date: WEEK OF 7/15/2001

LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER: HW9124

File a separate Request Sheet for each sample point



Sample ID AD71261

Location: HWMB

Description: VANTRAN ELECTRIC CORP/HW91

Collector: A. TAFT

Sample ID: AD71261

Analysis Needed By: Routine ☒ Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_  
Ground Water \_\_\_\_\_

Soil/Sediment ☒  
Surface Water \_\_\_\_\_

Sludge \_\_\_\_\_  
Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

Off-site sediment sample to determine absence/presence of haz substance

Applicable Hazardous Waste Codes (If known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒  
Volatiles ☒  
Pesticides ☒  
Herbicides ☒  
Organophosphorous Pesticides ☒  
PCB ☒  
BETX ☒  
Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒  
(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒  
Mercury ☒  
Metals Special Requests: ☒

CYANIDE

4 4 OZ JARS

4 8 OZ JARS

4 16 OZ JARS plastic

4 Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_  
Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_  
Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_  
Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_  
Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_  
Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Reviewed By: (EPD Lab): \_\_\_\_\_  
Date (EPD Lab): \_\_\_\_\_

RECPT TEMP 0.0

TNB

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Division</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/16/2002 <b>Time Collected:</b> 10:15 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71261 <b>Facility Name:</b> Vantran Electric Corp/Hw9124 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9124	<b>Received By:</b> TNB <b>Date Received:</b> 7/17/2002 <b>Time Received:</b> 12:31 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C	

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
<b>8260 Volatiles in Soil/Sed. QC Batch 50678</b>									
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	50	ug/kg (dw)	0.00	KDD	7/18/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	47	ug/kg (dw)	0.00	KDD	7/18/2002	39 to 68
p-fluorobenzene(Surrogate QC Std.)			EPA 8260	44	ug/kg (dw)	0.00	KDD	7/18/2002	25 to 60
1,1-dichloroethane-d4(Surrogate QC Std.)			EPA 8260	45	ug/kg (dw)	0.00	KDD	7/18/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	2.4	KDD	7/18/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	120	KDD	7/18/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Chloroform	34318		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppb: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE			UNITS	RL	ANALYST	DATE	
acetone	75078		EPA 8260	Not Detected	ug/kg (dw)	120	KDD	7/18/2002	
1,1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	60	KDD	7/18/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	60	KDD	7/18/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	60	KDD	7/18/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Toluene	34483		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Naphthalene	34445		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw)	6.1	KDD	7/18/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	12	KDD	7/18/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
pb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	12	KDD 7/18/2002	
Hexanal			EPA 8260	41 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
Tricyclene			EPA 8260	6.2 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
alpha-Pipene			EPA 8260	360 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
Camphene			EPA 8260	30 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
1-Limonene			EPA 8260	73 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
Terpinolene			EPA 8260	22 TIE	ug/kg (dw)	0.00	KDD 7/18/2002	
Fenchol			EPA 8260	7.3 TIE	ug/kg (dw)		KDD 7/18/2002	
alpha-Terpineol			EPA 8260	14 TIE	ug/kg (dw)		KDD 7/18/2002	
<b>8270 Semi-Vol in Soil/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	89	ug/kg (dw)	0.00	PS 7/24/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	93	ug/kg (dw)	0.00	PS 7/24/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	89	ug/kg (dw)	0.00	PS 7/24/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	89	ug/kg (dw)	0.00	PS 7/24/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	110	ug/kg (dw)	0.00	PS 7/24/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	110	ug/kg (dw)	0.00	PS 7/24/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
2-Picoline	73110		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	2500	PS 7/24/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	6300	PS 7/24/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS 7/24/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
g/g: micrograms/gram  
m: parts per million  
pb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
	CODE	NOTE					ANALYST	DATE	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
4-Bromobiphenyl	78867		EPA 8270C	Not Detected	ug/kg (dw)	2500	PS	7/24/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	2500	PS	7/24/2002	
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
1,2,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Hexachlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	6300	PS	7/24/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	6300	PS	7/24/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	6300	PS	7/24/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	6300	PS	7/24/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
2,4,6-Trichlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
4,6-Dinitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	6300	PS	7/24/2002	
n-Nitrosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
1,2-Diphenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	6300	PS	7/24/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	EPA NOTE	METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
F 79	34472		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
p,p'-diethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	2500	PS	7/24/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
bis(2-Ethylhexyl)phthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Di-n-octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Dibenz(a,i)acridine			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	3100	PS	7/24/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	6300	PS	7/24/2002	
p,p'-DDE	39383		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	2500	PS	7/24/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	6300	PS	7/24/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	3100	PS	7/24/2002	
p,p'-DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/24/2002	
Nonacosane			EPA 8270C	3700 TIE	ug/kg (dw)		PS	7/24/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	11100	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	61000000	ug/kg (dw)	D 200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002

ug/L: micrograms/liter mg/L: milligrams/liter mg/kg: milligrams/kilogram ug/kg: micrograms/kilogram ug/g: micrograms/gram ppb: parts per million ppt: parts per billion org/L: organisms/liter	<: less than MCL: Maximum Contaminant Level RL: Reporting Limit LSPC: result less than lower specification USPC: result greater than upper specification TIE: Tentatively Identified or Estimated VIOL: Violation (result exceeds MCL)	<b>Laboratory Contacts:</b> Inorganics: Pat Sammons 404-206-5239 Metals: Mark Tolbert 404-206-5240 Organics: Danny Reed 404-206-5252 GC Mass Spec: Steve Bryan 404-206-5260 Microbiology: Viola Reynolds 404-206-5210
---	--	--

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Mercury	01008		6010 B	150000	ug/kg (dw)	20000	LA 7/23/2002	
Thallium	01013		6010 B	730	ug/kg (dw)	500	LA 7/23/2002	
Calcium	00917		6010 B	820000	ug/kg (dw)	500000	LA 7/23/2002	
Cadmium	01028		6010 B	Not Detected	ug/kg (dw)	500	LA 7/23/2002	
Cobalt	01038		6010 B	Not Detected	ug/kg (dw)	5000	LA 7/23/2002	
Chromium	01029		6010 B	56000	ug/kg (dw)	1000	LA 7/23/2002	
Copper	01043		6010 B	18000	ug/kg (dw)	2500	LA 7/23/2002	
Iron	01170		6010 B	6100000	ug/kg (dw)	10000	LA 7/23/2002	
Potassium	00938		6010 B	770000	ug/kg (dw)	500000	LA 7/23/2002	
Magnesium	00924		6010 B	680000	ug/kg (dw)	500000	LA 7/23/2002	
Manganese	01053		6010 B	41000	ug/kg (dw)	1500	LA 7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA 7/23/2002	
Nickel	01068		6010 B	16000	ug/kg (dw)	4000	LA 7/23/2002	
Lead	01052		6010 B	26000	ug/kg (dw)	9000	LA 7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA 7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA 7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA 7/23/2002	
Vanadium	01088		6010 B	81000	ug/kg (dw)	5000	LA 7/23/2002	
Zinc	01093		6010 B	37000	ug/kg (dw)	2000	LA 7/23/2002	

#### QC Batch 50675

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/25/2002
---------	-----------	--------------	------------	-----	----	-----------

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	15.1	ug/kg (dw)		PM	8/4/2002	10.0 to 30.0
DCB surr std	EPA 8081A	36.1	ug/kg (dw)		PM	8/4/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/4/2002	
beta-BHC	EPA 8081A	Not Detected	ug/kg (dw)	2.0	PM	8/4/2002	
delta-BHC	EPA 8081A	Not Detected	ug/kg (dw)	3.0	PM	8/4/2002	
LINDANE (gamma-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	4.5	PM	8/4/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	1.0	PM	8/4/2002	
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	3.0	PM	8/4/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/4/2002	
DIELDRIN	EPA 8081A	Not Detected	ug/kg (dw)	6.5	PM	8/4/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	2.0	PM	8/4/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/4/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/4/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	8.0	PM	8/4/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	7.5	PM	8/4/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/4/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/4/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	4.0	PM	8/4/2002	
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)	130	PM	8/4/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/4/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	1.0	PM	8/4/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	3.5	PM	8/4/2002	
	EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/4/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics: Pat Sammons 404-206-5239  
Metals: Mark Tolbert 404-206-5240  
Organics: Danny Reed 404-206-5252  
GC Mass Spec: Steve Bryan 404-206-5260  
Microbiology: Viola Reynolds 404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
3-CHLORDANE			EPA 8081A	Not Detected	ug/kg (dw)	5.0	PM	8/4/2002	
Results in Sediments or Soils QC Batch 50515									
TCMX surr std			EPA 8082	14.3	ug/kg (dw)		PM	8/2/2002	10.0 to 30.0
DCBP surr std			EPA 8082	36.0	ug/kg (dw)		PM	8/2/2002	20.0 to 60.0
PCB-1016			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1221			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1232			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	
PCB-1260			EPA 8082	160	ug/kg (dw)	33	PM	8/2/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	33	PM	8/2/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/11/02 for this compound with all QC in compliance.

COMMENTS:

COMMENTS: \$P\_8260S - Matrix Spike had two compounds, 1,1-Dichloroethene (54% RPD, limit <40%), and Benzene (49% RPD, limit <40%) with precisions outside acceptable control limits due to matrix interferences. LCS results were within acceptable control limits. 7-073102-328.

COMMENTS: \$R\_8260S- Matrix spike had two compounds, 1,1-Dichloroethene (166% recovery, limits 20-162%) and Benzene (147% recovery, limits 39-140%) with recoveries outside acceptable control limits due to matrix interferences. LCS results were within acceptable control limits. 7-073102-328.

COMMENTS: \$8260S- Matrix spike had one surrogate compound, 1,2-Dichloroethane-d4 (134% recovery, limits 78-118%) with recovery outside acceptable control limits due to matrix interferences. LCS results were within acceptable control limits. 7-073102-328.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

AUG 26 2002

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

ANDREW TAFT (404) 656-2833

Collection Date:

LAB No. \_\_\_\_\_

Date Submitted To Lab:

HWMB LOG NUMBER:

HW9123

File a separate Request Sheet for each sample point)



Sample ID AD71059

Location: HWMB

Description: VANTRAN ELECTRIC CORP / HW9123

Collector: A. TAFT

Sample ID: AD71059

Analysis Needed By:

Routine ☒

Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_

Ground Water \_\_\_\_\_

Soil/Sediment ☒

Surface Water \_\_\_\_\_

Sludge \_\_\_\_\_

Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

Soil duplicate of HW9122

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions: \_\_\_\_\_

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒

(Acid & Base/Neutral) ☒

Volatiles ☒

Pesticides ☒

Herbicides ☒

Organophosphorous Pesticides ☒

PCB ☒

BETX ☒

Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒

(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒

Mercury ☒

Metals Special Requests: ☒

CYANIDE

4 4 OZ JARS

4 8 OZ JARS

1 16 OZ JARS plastic

4 Ecores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_

Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_

Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_

Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_

Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back): \_\_\_\_\_

Reviewed By: (HWMB): \_\_\_\_\_

Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By: (EPD Lab): TB

Date (EPD Lab): 7-16-02

TNB

RECPT TEMP 0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Divison</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/15/2002 <b>Time Collected:</b> 0:00 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71059 <b>Facility Name:</b> Vantran Electric Corp./ Hw9123 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9123	<b>Received By:</b> TNB <b>Date Received:</b> 7/16/2002 <b>Time Received:</b> 1:40 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C	

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
<b>8260 Volatiles in Soil/Sed. QC Batch 50679</b>							
Dibromofluoromethane(Surrogate QC Std.)		EPA 8260	58	ug/kg (dw)	0.00	KDD 7/22/2002	33 to 75
Toluene-d8(Surrogate QC Std.)		EPA 8260	44	ug/kg (dw)	0.00	KDD 7/22/2002	39 to 68
Bromobenzene(Surrogate QC Std.)		EPA 8260	36	ug/kg (dw)	0.00	KDD 7/22/2002	25 to 60
1,1-Dichloroethane-d4(Surrogate QC Std.)		EPA 8260	56	ug/kg (dw)	0.00	KDD 7/22/2002	35 to 65
Dichlorodifluoromethane	34334	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
Chloromethane	34421	EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
Bromomethane	34416	EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
Vinyl Chloride	34495	EPA 8260	Not Detected	ug/kg (dw)	2.1	KDD 7/22/2002	
Chloroethane	34314	EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
Methylene Chloride	34426	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
Trichlorofluoromethane	34491	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
Acetone	75059	EPA 8260	Not Detected	ug/kg (dw)	100	KDD 7/22/2002	
Dibromomethane	78756	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
trans-1,2-Dichloroethene	34549	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
Iodomethane	73121	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
Carbon Disulfide	78544	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
1,1-Dichloroethene	34504	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
1,1-Dichloroethane	34499	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
cis-1,2-Dichloroethene	77093	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
2,2-Dichloropropane	77170	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
Bromochloromethane	77297	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
Chloroform	34318	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
1,1-Dichloropropene	77168	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	
1,2-Dichloroethane	34534	EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD 7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE			UNITS	RL	ANALYST	DATE	
anone	75078		EPA 8260	Not Detected	ug/kg (dw)	100	KDD	7/22/2002	
p,p'-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	52	KDD	7/22/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	52	KDD	7/22/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	52	KDD	7/22/2002	
Tetrachloroethane	34478		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Toluene	34483		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
ne	78362		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw) J	5.1	KDD	7/22/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw) J	5.1	KDD	7/22/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw) J	5.1	KDD	7/22/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw) J	5.1	KDD	7/22/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw) J	5.1	KDD	7/22/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw) J	5.1	KDD	7/22/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw) J	5.1	KDD	7/22/2002	
Naphthalene	34445		EPA 8260	Trace	ug/kg (dw) J	5.1	KDD	7/22/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw) J	5.1	KDD	7/22/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	5.1	KDD	7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
pb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
1,1,1-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
Total Aldehydes			EPA 8260	32 TIE	ug/kg (dw)	0.00	KDD 7/22/2002	
<b>8270 Semi-Vol in Soil/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	68	ug/kg (dw)	0.00	PS 7/29/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	73	ug/kg (dw)	0.00	PS 7/29/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	80	ug/kg (dw)	0.00	PS 7/29/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	82	ug/kg (dw)	0.00	PS 7/29/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	64	ug/kg (dw)	0.00	PS 7/29/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	88	ug/kg (dw)	0.00	PS 7/29/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
phenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS 7/29/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
1,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
1,2,3,4-Tetrachlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	56000 PS	7/29/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	56000 PS	7/29/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	56000 PS	7/29/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	56000 PS	7/29/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
4,6-Dinitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	56000 PS	7/29/2002	
4,4'-Diosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
1,2-Diphenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	56000 PS	7/29/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	22000 PS	7/29/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	
bis(2-Ethylhexyl)phthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	11000 PS	7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
n-octylphthalate	34599	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
benzo[b]fluoranthene	34233	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzo[k]fluoranthene	34245	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
7,12-Dimethylbenz(a)anthracene	73115	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzo[a]pyrene	34250	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
3-Methylcholanthrene	73156	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Dibenz(a,j)acridine		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Indeno[1,2,3-cd]pyrene	34406	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Dibenz[a,h]anthracene	34559	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzo[g,h,i]perylene	34524	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pyridine	73312	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Alpha-BHC	39076	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Gamma-BHC	39343	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Beta-BHC	34257	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Delta-BHC	34262	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Heptachlor	39413	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Aldrin	39333	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Heptachlor Epoxide	39423	EPA 8270C	Not Detected	ug/kg (dw)	28000	PS	7/29/2002	
Endosulfan 1	34364	EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Dieldrin	39383	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
p,p'-DDE	39321	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Endrin	39393	EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/29/2002	
Endosulfan 2	34359	EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
p,p'-DDD	39311	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Endrin Aldehyde	34369	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Endosulfan Sulfate	34354	EPA 8270C	Not Detected	ug/kg (dw)	28000	PS	7/29/2002	
DDT	39301	EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzaldehyde		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Caprolactam		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1,1'-Biphenyl		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Atrazine		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Carbazole		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	10100	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	15000000	ug/kg (dw)	D 200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	21000	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	12000	ug/kg (dw)	1000	LA	7/23/2002
Copper	01043	6010 B	200000	ug/kg (dw)	2500	LA	7/23/2002
Iron	01170	6010 B	7600000	ug/kg (dw)	10000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics: Pat Sammons 404-206-5239  
Metals: Mark Tolbert 404-206-5240  
Organics: Danny Reed 404-206-5252  
GC Mass Spec: Steve Bryan 404-206-5260  
Microbiology: Viola Reynolds 404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
assium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
cesium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	82000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	5500	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	32000	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	21000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	48000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50621

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/22/2002
---------	-----------	--------------	------------	-----	----	-----------

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	Not Detected	ug/kg (dw)		PM	8/4/2002	10.0 to 30.0
DCB surr std	EPA 8081A	20.4	ug/kg (dw)		PM	8/4/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	30	PM	8/4/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	45	PM	8/4/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	10	PM	8/4/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	500	PM	8/4/2002	
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)	30	PM	8/4/2002	
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	65	PM	8/4/2002	
DRIN	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	80	PM	8/4/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	40	PM	8/4/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	D 1300	PM	8/4/2002	
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	10	PM	8/4/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	200	PM	8/4/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std		EPA 8082	20.9	ug/kg (dw)		PM	8/2/2002	10.0 to 30.0
DCBP surr std	U	EPA 8082	62.0	ug/kg (dw)		PM	8/2/2002	20.0 to 60.0
PCB-1016		EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1221		EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1232		EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
-1242			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
-1248			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1260			EPA 8082	4800	ug/kg (dw)	330	PM	8/2/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/11/02 for this compound with all QC in compliance.

\$8081S - Reporting Limits elevated due to high concentrations of target and/or non-target compounds in the sample.

\$8081S - One surrogate, TCMX, lost to sample dilution for high levels of target and/or non-target compounds. 1-082102-604

COMMENTS: \$8082S - Sample surrogate compound, DCB (155% recovery, limits 50 - 150%) had a percent recovery outside acceptable limits due to matrix interferences. 1-081402-580

\$8082S - Reporting Limits elevated due to high levels of target and/or non-target compounds.

COMMENTS: \$8260S - Sample had one internal standard compounds, 1,4-Dichlorobenzene-d4 (29% response; limits 50-200%) with response outside acceptable control limits due to matrix interferences. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-073102-325.

COMMENTS: \$8270S - Reporting limits raised due to elevated concentrations of non-target compounds.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
µm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

AUG 26 2002

Facility Name/Location: VANTRAN ELECTRIC CORPORATION  
Sample Collected By/Phone: ANDREW TAFT (404) 656-2833  
Collection Date: WEEK OF 7/15/2002 LAB No. \_\_\_\_\_  
Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER: HW9122

File a separate Request Sheet for each sample point



Sample ID AD71058  
Location: HWMB  
Description: VANTRAN ELECTRIC CORP. / HW9122  
Collector: A. TAFT  
Sample ID: AD71058

Analysis Needed By: Routine ☒ Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_ Soil/Sediment ☒ Sludge \_\_\_\_\_  
Ground Water \_\_\_\_\_ Surface Water \_\_\_\_\_ Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

On-site soil sample to determine absence/presence of haz. substances.

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒  
Volatiles ☒  
Pesticides ☒  
Herbicides ☒  
Organophosphorous Pesticides ☒  
PCB ☒  
BETX ☒  
Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒  
(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒  
Mercury ☒  
Metals Special Requests: ☒

CYANIDE

4 OZ. JARS

8 OZ. JARS

16 OZ. JARS plastic

4 Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_ Pesticides \_\_\_\_\_  
Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_ Herbicides \_\_\_\_\_  
Additional Specific Organics for TCLP: \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_ Additional Metals for TCLP: \_\_\_\_\_  
Mercury \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_  
Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Reviewed By: (EPD Lab): TB  
Date (EPD Lab): 7-16-02

TNB

RECPT TEMP 0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Division</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/15/2002 <b>Time Collected:</b> 12:00 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71058 <b>Facility Name:</b> Vantran Electric Corp./ Hw9122 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9122	<b>Received By:</b> TNB <b>Date Received:</b> 7/16/2002 <b>Time Received:</b> 1:40 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
<b>8260 Volatiles in Sol/Sed. QC Batch 50679</b>									
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	49	ug/kg (dw)		KDD	7/22/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	45	ug/kg (dw)		KDD	7/22/2002	39 to 68
P-fluorobenzene(Surrogate QC Std.)			EPA 8260	39	ug/kg (dw)		KDD	7/22/2002	25 to 60
1,1,1-trichloroethane-d4(Surrogate QC Std.)			EPA 8260	39	ug/kg (dw)		KDD	7/22/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	2	KDD	7/22/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	100	KDD	7/22/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Chloroform	34318		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
	CODE	NOTE					ANALYST	DATE	
2-Pentanone	75078		EPA 8260	Not Detected	ug/kg (dw)	100	KDD	7/22/2002	
1,1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/22/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/22/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/22/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Toluene	34483		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	J 10	KDD	7/22/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Trace	ug/kg (dw)	J 5	KDD	7/22/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Trace	ug/kg (dw)	J 5	KDD	7/22/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/22/2002	
Naphthalene	34445		EPA 8260	Trace	ug/kg (dw)	J 5	KDD	7/22/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Trace	ug/kg (dw)	J 5	KDD	7/22/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
2-Furancarboxaldehyde			EPA 8260	9 TIE	ug/kg (dw)		KDD 7/22/2002	
<b>8270 Semi-Vol in Soil/Sed QC Batch 50936</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	76	ug/kg (dw)	0.00	PS 8/2/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	82	ug/kg (dw)	0.00	PS 8/2/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	81	ug/kg (dw)	0.00	PS 8/2/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	86	ug/kg (dw)	0.00	PS 8/2/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	100	ug/kg (dw)	0.00	PS 8/2/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	110	ug/kg (dw)	0.00	PS 8/2/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS 8/2/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
phenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Benzoic acid	75315		EPA 8270C	Not Analyzed	ug/kg (dw)	5600	PS 8/2/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS 8/2/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS 8/2/2002	
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS 8/2/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
pm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
1,2,3,4,5-Tetrachlorobenzene	79787	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1,2,3,4,6-Pentachlorocyclopentadiene	34389	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,4,6-Trichlorophenol	34624	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,4,5-Trichlorophenol	78401	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2-Chloronaphthalene	34584	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1-Chloronaphthalene		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2-Nitroaniline	78299	EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	8/2/2002	
Dimethylphthalate	34344	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Acenaphthylene	34203	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,6-Dinitrotoluene	34629	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
3-Nitroaniline	78869	EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	8/2/2002	
Acenaphthene	34208	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,4-Dinitrophenol	34619	EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	8/2/2002	
4-Nitrophenol	34649	EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	8/2/2002	
Dibenzofuran	75647	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Pentachlorobenzene	79790	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,4-Dinitrotoluene	34614	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1-Naphthylamine	73143	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2-Naphthylamine	73124	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,3,4,6-Tetrachlorophenol		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Diethylphthalate	34339	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Fluorene	34384	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Chlorophenyl-phenylether	34644	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Nitroaniline	78870	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Diphenylamine		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4,6-Dinitro-2-methylphenol	34660	EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	8/2/2002	
n,N'-Disodiphenylamine	34436	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1,2-Diphenylhydrazine	34349	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Bromophenyl-phenylether	34639	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Phenacetin	73117	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Hexachlorobenzene	39701	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Aminobiphenyl	73125	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Pentachlorophenol	39061	EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	8/2/2002	
Pronamide	73031	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Pentachloronitrobenzene	81808	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Phenanthrene	34464	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Anthracene	34223	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Di-n-butylphthalate	39112	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Fluoranthene	34379	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Benzidine	39121	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Pyrene	34472	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
p-Dimethylaminoazobenzene	73116	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Butylbenzylphthalate	34295	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Benzo[a]anthracene	34529	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
3,3'-Dichlorobenzidine	34634	EPA 8270C	Not Detected	ug/kg (dw)	2200	PS	8/2/2002	
Chrysene	34323	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
bis(2-Ethylhexyl)phthalate	39102	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Di-n-octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Dibenz(a,j)acridine			EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	2800 PS	8/2/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	5600 PS	8/2/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	2200 PS	8/2/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	5600 PS	8/2/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	2800 PS	8/2/2002	
DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	1100 PS	8/2/2002	
Hexadecanoic acid			EPA 8270C	1400 TIE	ug/kg (dw)	0.00 PS	8/2/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	10200	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	19000000	ug/kg (dw)	D 200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	26000	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	16000	ug/kg (dw)	1000	LA	7/23/2002
Copper	01043	6010 B	260000	ug/kg (dw)	2500	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
Barium	01170		6010 B	9900000	ug/kg (dw)	D	100000	LA	7/23/2002
Magnesium	00938		6010 B	Not Detected	ug/kg (dw)		500000	LA	7/23/2002
Manganese	00924		6010 B	Not Detected	ug/kg (dw)		500000	LA	7/23/2002
Sodium	01053		6010 B	96000	ug/kg (dw)		1500	LA	7/23/2002
Nickel	00934		6010 B	Not Detected	ug/kg (dw)		500000	LA	7/23/2002
Lead	01068		6010 B	6500	ug/kg (dw)		4000	LA	7/23/2002
Antimony	01052		6010 B	42000	ug/kg (dw)		9000	LA	7/23/2002
Selenium	01098		6010 B	Not Detected	ug/kg (dw)		12000	LA	7/23/2002
Thallium	01148		6010 B	Not Detected	ug/kg (dw)		19000	LA	7/23/2002
Vanadium	34480		6010 B	Not Detected	ug/kg (dw)		20000	LA	7/23/2002
Zinc	01088		6010 B	27000	ug/kg (dw)		5000	LA	7/23/2002
	01093		6010 B	58000	ug/kg (dw)		2000	LA	7/23/2002

#### QC Batch 50621

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/22/2002
---------	-----------	--------------	------------	-----	----	-----------

#### Pesticides In Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	Not Detected	ug/kg (dw)		PM	8/4/2002	10.0 to 30.0
DCB surr std	EPA 8081A	22.6	ug/kg (dw)		PM	8/4/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	30	PM	8/4/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	45	PM	8/4/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	10	PM	8/4/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	500	PM	8/4/2002	
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)	30	PM	8/4/2002	
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	65	PM	8/4/2002	
DURIN	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	80	PM	8/4/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	40	PM	8/4/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	D 1300	PM	8/4/2002	
CHLORPYRIFOS (DURBAN)	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	10	PM	8/4/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	200	PM	8/4/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	

#### PCBs In Sediments or Soils QC Batch 50515

TCMX surr std	EPA 8082	20.2	ug/kg (dw)		PM	8/2/2002	10.0 to 30.0
DCBP surr std	EPA 8082	60.0	ug/kg (dw)		PM	8/2/2002	20.0 to 60.0
PCB-1016	EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1221	EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA	RESULT	UNITS	QUALIFIER	ANALYSIS		MCL or QC Range
	CODE	NOTE	METHOD			RL	ANALYST	DATE	
3-1232			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
3-1242			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1260			EPA 8082	3200	ug/kg (dw)	330	PM	8/2/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/10/02 for this compound with all QC in compliance.

\$8081S - Reporting Limits elevated due to high concentrations of target and/or non-target compounds in the sample.

\$8081S - One surrogate, TCMX, lost to sample dilution for high levels of target and/or non-target compounds. 1-082102-604

COMMENTS: \$8082S - Reporting Limits elevated due to high levels of target and/or non-target compounds.

COMMENTS: \$8260S- Sample had two internal standard compounds, Chlorobenzene-d5 (49.6% response, limits 50-200%), and 1,4-Dichlorobenzene-d4 (29% response, limits 50-200%) with responses outside acceptable control limits. Sample also had one surrogate compound, 1,2-Dichloroethane-d4 (77% recovery, limits 78-118%) with recovery outside acceptable control limits due to matrix interferences. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-073102-325.

COMMENTS: \$8270S - "Not analyzed" Sample not analyzed for Benzoic Acid. No valid curve for this compound. 7-080602-337

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
pm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



~~SECRET~~

HAZARDOUS WASTE MANAGEMENT BRANC

RECPT TEMP 0.0 °

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO:</b> Georgia Env Protection Divison Hazardous Waste Mgmt Branch 205 Butler St SE Suite 1154E Atlanta, GA 30334		<b>Date Collected:</b> 7/15/2002 <b>Time Collected:</b> 13:45 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71057 <b>Facility Name:</b> Vantran Electric Corp./ Hw9121 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9121	<b>Received By:</b> TNB <b>Date Received:</b> 7/16/2002 <b>Time Received:</b> 1:40 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 ° C	

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>8260 Volatiles in Soil/Sed. QC Batch 50679</b>								
Dibromofluoromethane(Surrogate QC Std.)		EPA 8260	53	ug/kg (dw)	0.00	KDD	7/22/2002	33 to 75
Toluene-d8(Surrogate QC Std.)		EPA 8260	50	ug/kg (dw)	0.00	KDD	7/22/2002	39 to 68
Bromobenzene(Surrogate QC Std.)		EPA 8260	47	ug/kg (dw)	0.00	KDD	7/22/2002	25 to 60
1,2-Dichloroethane-d4(Surrogate QC Std.)		EPA 8260	51	ug/kg (dw)	0.00	KDD	7/22/2002	35 to 65
Dichlorodifluoromethane	34334	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Chloromethane	34421	EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Bromomethane	34416	EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Vinyl Chloride	34495	EPA 8260	Not Detected	ug/kg (dw)	2.1	KDD	7/22/2002	
Chloroethane	34314	EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Methylene Chloride	34426	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Trichlorofluoromethane	34491	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Acetone	75059	EPA 8260	Not Detected	ug/kg (dw)	110	KDD	7/22/2002	
Dibromomethane	78756	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
trans-1,2-Dichloroethene	34549	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Iodomethane	73121	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Carbon Disulfide	78544	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1-Dichloroethene	34504	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1-Dichloroethane	34499	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
cis-1,2-Dichloroethene	77093	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
2,2-Dichloropropane	77170	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Bromochloromethane	77297	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Chloroform	34318	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1-Dichloropropene	77168	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dichloroethane	34534	EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 ug/kg: micrograms/kilogram  
 mg/kg: milligrams/kilogram  
 parts per million  
 parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
2,2,4-Trichloroethane	75078		EPA 8260	Not Detected	ug/kg (dw)	110	KDD	7/22/2002	
1,1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	54	KDD	7/22/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	54	KDD	7/22/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	54	KDD	7/22/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Toluene	34483		EPA 8260	Trace	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Naphthalene	34445		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	5.4	KDD	7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ppm: micrograms/gram  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**  
Inorganics: Pat Sammons 404-206-5239  
Metals: Mark Tolbert 404-206-5240  
Organics: Danny Reed 404-206-5252  
GC Mass Spec: Steve Bryan 404-206-5260  
Microbiology: Viola Reynolds 404-206-5210

ANALYTE	PARAMETER		EPA		QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE	METHOD	RESULT	UNITS	RL	ANALYST	DATE	
1,1,1-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	11	KDD	7/22/2002	
<b>8270 Semi-Vol In Soil/Sed QC Batch 50936</b>									
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	76	ug/kg (dw)	0.00	PS	8/2/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	80	ug/kg (dw)	0.00	PS	8/2/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	81	ug/kg (dw)	0.00	PS	8/2/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	87	ug/kg (dw)	0.00	PS	8/2/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	110	ug/kg (dw)	0.00	PS	8/2/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	110	ug/kg (dw)	0.00	PS	8/2/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	2100	PS	8/2/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Benzoic acid	75315		EPA 8270C	Not Analyzed	ug/kg (dw)	5300	PS	8/2/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	2100	PS	8/2/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	2100	PS	8/2/2002	
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1,2,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA		QUALIFIER	ANALYSIS			MCL or QC Range
	CODE	NOTE	METHOD	RESULT		RL	ANALYST	DATE	
1,2,3,4,5-Halocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	8/2/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	8/2/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	8/2/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	8/2/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4,6-Dinitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	8/2/2002	
1,2-Bis(4-chlorophenyl)ethane	34436		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1,2-Bis(4-chlorophenyl)hydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	8/2/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	2100	PS	8/2/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
bis(2-Ethylhexyl)phthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Di-n-octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppm: parts per million  
 ppb: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
Fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Dibenz(a,i)acridine			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	2600	PS	8/2/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	8/2/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	2100	PS	8/2/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	8/2/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	2600	PS	8/2/2002	
p,p'-DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Benzo[e]pyrene			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	8/2/2002	
3,5,7-Trihydroxy-2-4H-1-benzopyran-4-one			EPA 8270C	3000 TIE	ug/kg (dw)	0.00	PS	8/2/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	9860	BS	7/24/2002
---------------------	-------	------------	--------------	------------	------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	7700000	ug/kg (dw)	20000	LA	7/23/2002
Arsenic	01003	6010 B	18000	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	10000	ug/kg (dw)	1000	LA	7/23/2002
Copper	01043	6010 B	26000	ug/kg (dw)	2500	LA	7/23/2002
Iron	01170	6010 B	5600000	ug/kg (dw)	10000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
'g: micrograms/gram  
': parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Pr	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Magnesium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	80000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	Not Detected	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	13000	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	14000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	91000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50621

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/22/2002	
---------	-----------	--------------	------------	-----	----	-----------	--

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	Not Detected	ug/kg (dw)		PM	8/4/2002	10.0 to 30.0
DCB surr std	EPA 8081A	26.9	ug/kg (dw)		PM	8/4/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	30	PM	8/4/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	45	PM	8/4/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	10	PM	8/4/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	500	PM	8/4/2002	
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)	30	PM	8/4/2002	
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	65	PM	8/4/2002	
DI	EPA 8081A	Not Detected	ug/kg (dw)	20	PM	8/4/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	80	PM	8/4/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	75	PM	8/4/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	40	PM	8/4/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	D 1300	PM	8/4/2002	
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	10	PM	8/4/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	200	PM	8/4/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	35	PM	8/4/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	50	PM	8/4/2002	

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std	EPA 8082	22.1	ug/kg (dw)		PM	8/2/2002	10.0 to 30.0
DCBP surr std	U EPA 8082	65.0	ug/kg (dw)		PM	8/2/2002	20.0 to 60.0
PCB-1016	EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1221	EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1232	EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
micrograms/gram  
parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics: Pat Sammons 404-206-5239  
Metals: Mark Tolbert 404-206-5240  
Organics: Danny Reed 404-206-5252  
GC Mass Spec: Steve Bryan 404-206-5260  
Microbiology: Viola Reynolds 404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1254			EPA 8082	4900	ug/kg (dw)	330	PM	8/2/2002	
PCB-1260			EPA 8082	16000	ug/kg (dw)	3300	PM	8/2/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/10/02 for this compound with all QC in compliance.

\$8081S - Reporting Limits elevated due to high concentrations of target and/or non-target compounds in the sample.

\$8081S - One surrogate, TCMX, lost to sample dilution for high levels of target and/or non-target compounds. 1-082102-604

COMMENTS: \$8082S - Sample surrogate compound, DCB (163% recovery, limits 50 - 150%) had a percent recovery outside acceptable limits due to matrix interferences. 1-081402-580

\$8082S - Reporting Limits elevated due to high levels of target compounds.

COMMENTS: \$8270S - "Not analyzed" Sample not analyzed for Benzoic Acid. No valid curve for this compound. 7-080602-337

COMMENTS: \$S\_8270S - No MS/MSD extracted with the batch. 7-080602-337

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
micrograms/gram  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

AUG 26 2002

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

ANDREW TAFT (404) 656-2833

Collection Date:

WEEK OF 7/15/2002

LAB No. \_\_\_\_\_

Date Submitted To Lab:

HWMB LOG NUMBER:

HW9120

File a separate Request Sheet for each sample point

Analysis Needed By:

Routine ☒

Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_

Ground Water \_\_\_\_\_

Soil/Sediment ☒

Surface Water \_\_\_\_\_

Sludge \_\_\_\_\_

Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration):

On-site soil sample to determine absence/presence of haz. substances.

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒

(Acid & Base/Neutral) ☒

Volatiles ☒

Pesticides ☒

Herbicides ☒

Organophosphorous Pesticides ☒

PCB ☒

BETX ☒

Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒

(Ag,As,Ba,Cd,Cr,NI,Pb,Se) ☒

Mercury ☒

Metals Special Requests: ☒

CYANIDE

4 OZ JARS

8 OZ JARS

1 16 OZ JARS plastic

4 Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_

Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_

Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_

Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,NI,Pb,Se) \_\_\_\_\_

Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_

Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By: (EPD Lab): TB

Date (EPD Lab): 7-16-02

RECPT TEMP 0.0

TNB

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO:</b> Georgia Env Protection Division Hazardous Waste Mgmt Branch 205 Butler St SE Suite 1154E Atlanta, GA 30334		<b>Date Collected:</b> 7/15/2002 <b>Time Collected:</b> 14:15 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71056 <b>Facility Name:</b> Vantran Electric Corp./ Hw9120 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9120	<b>Received By:</b> TNB <b>Date Received:</b> 7/16/2002 <b>Time Received:</b> 1:40 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 ° C	

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
<b>8260 Volatiles In Soil/Sed. QC Batch 50925</b>							
Dibromofluoromethane(Surrogate QC Std.)		EPA 8260	60	ug/kg (dw)		KDD 7/25/2002	33 to 75
Toluene-d8(Surrogate QC Std.)		EPA 8260	42	ug/kg (dw)		KDD 7/25/2002	39 to 68
P olofluorobenzene(Surrogate QC Std.)		EPA 8260	39	ug/kg (dw)		KDD 7/25/2002	25 to 60
ichloroethane-d4(Surrogate QC Std.)		EPA 8260	59	ug/kg (dw)		KDD 7/25/2002	35 to 65
Dichlorodifluoromethane	34334	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
Chloromethane	34421	EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Bromomethane	34416	EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Vinyl Chloride	34495	EPA 8260	Not Detected	ug/kg (dw)	2	KDD 7/25/2002	
Chloroethane	34314	EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Methylene Chloride	34426	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
Trichlorofluoromethane	34491	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
Acetone	75059	EPA 8260	Not Detected	ug/kg (dw)	100	KDD 7/25/2002	
Dibromomethane	78756	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
trans-1,2-Dichloroethene	34549	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
Iodomethane	73121	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
Carbon Disulfide	78544	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
1,1-Dichloroethene	34504	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
1,1-Dichloroethane	34499	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
cis-1,2-Dichloroethene	77093	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
2,2-Dichloropropane	77170	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
Bromochloromethane	77297	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
Chloroform	34318	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
1,1-Dichloropropene	77168	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	
1,2-Dichloroethane	34534	EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/25/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppm: parts per million  
 ppb: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
	CODE	NOTE					ANALYST	DATE	
anone	75078		EPA 8260	Not Detected	ug/kg (dw)	100	KDD	7/25/2002	
1,1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/25/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/25/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/25/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Toluene	34483		EPA 8260	Trace	ug/kg (dw)	5	KDD	7/25/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
p m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/25/2002	
ene	78362		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/25/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/25/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/25/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/25/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/25/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/25/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/25/2002	
Naphthalene	34445		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/25/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw)	J 5	KDD	7/25/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Total Aldehydes			EPA 8260	35 TIE	ug/kg (dw)		KDD 7/25/2002	
Total Hydrocarbons			EPA 8260	68 TIE	ug/kg (dw)		KDD 7/25/2002	
<b>8270 Semi-Vol In Soil/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	67	ug/kg (dw)	0.00	PS 7/29/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	74	ug/kg (dw)	0.00	PS 7/29/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	76	ug/kg (dw)	0.00	PS 7/29/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	90	ug/kg (dw)	0.00	PS 7/29/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	87	ug/kg (dw)	0.00	PS 7/29/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	95	ug/kg (dw)	0.00	PS 7/29/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	47000	PS 7/29/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
1-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS 7/29/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	47000	PS 7/29/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS 7/29/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	47000	PS 7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA		QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE	METHOD	RESULT	UNITS	RL	ANALYST	DATE	
1-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1,2,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Hexachlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,3,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Nitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
n-Nitrosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1,2-Diphenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	47000	PS	7/29/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER / RL	ANALYST	ANALYSIS DATE	MCL or QC Range
2-Ethylhexyl)phthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Dibenz(a,i)acridine			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	59000	PS	7/29/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	48000	PS	7/29/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	59000	PS	7/29/2002	
p,p'-DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Total hydrocarbons			EPA 8270C	160000 TIE	ug/kg (dw)	0.00	PS	7/29/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	10500	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	22000000	ug/kg (dw)	D 200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	65000	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	1300000	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	2100	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	45000	ug/kg (dw)	1000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Copper	01043		6010 B	1200000	ug/kg (dw)	2500	LA	7/23/2002	
Iron	01170		6010 B	12000000	ug/kg (dw)	D 100000	LA	7/23/2002	
Potassium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Magnesium	00924		6010 B	630000	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	97000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	16000	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	260000	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	30000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	300000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50621

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/22/2002	
---------	-----------	--------------	------------	-----	----	-----------	--

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	Not Detected	ug/kg (dw)		PM	8/4/2002	10.0 to 30.0
DCB surr std	EPA 8081A	Not Detected	ug/kg (dw)		PM	8/4/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)	350	PM	8/4/2002	
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)	200	PM	8/4/2002	
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)	300	PM	8/4/2002	
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)	450	PM	8/4/2002	
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)	100	PM	8/4/2002	
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	5000	PM	8/4/2002	
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)	300	PM	8/4/2002	
4-DDD	EPA 8081A	Not Detected	ug/kg (dw)	750	PM	8/4/2002	
4-DDT	EPA 8081A	Not Detected	ug/kg (dw)	650	PM	8/4/2002	
DIELDRIN	EPA 8081A	Not Detected	ug/kg (dw)	200	PM	8/4/2002	
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)	500	PM	8/4/2002	
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)	750	PM	8/4/2002	
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)	800	PM	8/4/2002	
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)	750	PM	8/4/2002	
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)	350	PM	8/4/2002	
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)	500	PM	8/4/2002	
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)	400	PM	8/4/2002	
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	D 13000	PM	8/4/2002	
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)	500	PM	8/4/2002	
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)	100	PM	8/4/2002	
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)	2000	PM	8/4/2002	
MIREX	EPA 8081A	Not Detected	ug/kg (dw)	350	PM	8/4/2002	
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	500	PM	8/4/2002	
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)	500	PM	8/4/2002	

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std	EPA 8082	Not Detected	ug/kg (dw)		PM	8/2/2002	10.0 to 30.0
DCBP surr std	EPA 8082	Not Detected	ug/kg (dw)		PM	8/2/2002	20.0 to 60.0
PCB-1016	EPA 8082	17000	ug/kg (dw)	3300	PM	8/2/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
PCB-1221			EPA 8082	Not Detected	ug/kg (dw)	3300	PM	8/2/2002	
PCB-1232			EPA 8082	Not Detected	ug/kg (dw)	3300	PM	8/2/2002	
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	3300	PM	8/2/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	3300	PM	8/2/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	3300	PM	8/2/2002	
PCB-1260			EPA 8082	21000	ug/kg (dw)	3300	PM	8/2/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	3300	PM	8/2/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/10/02 for this compound with all QC in compliance.

\$8081S - Reporting Limits elevated due to high concentrations of target and/or non-target compounds in the sample.

\$8081S - Both surrogates, TCMX and DCB, lost to dilution for high levels of target and/or non-target compounds. 1-082102-604

COMMENTS: \$8082S - Reporting Limits elevated due to high levels of target compounds.

\$8082S - Surrogates TCMX and DCB were lost to sample dilution required for high levels of target compounds. 1-081402-580

COMMENTS: \$8260S - Sample had two surrogate compounds, Dibromofluoromethane (121% recovery, limits 80-117%), and 1,2-Dichloroethane-d4 (119% recovery, limits 78-118%) with recoveries outside acceptable control limits. One internal standard compound, 1,4-Dichlorobenzene-d4 (30% response, limits 50-200%) with response outside acceptable control limits due to matrix interferences. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-080502-332.

COMMENTS: \$8270S - Reporting limits raised due to elevated concentrations of non-target compounds.

COMMENTS: \$P\_8260S - Matrix Spike had two compounds, 1,1-Dichloroethene (40.9% RPD, limit <40%), and Chlorobenzene (43.5% RPD, limits <40%) with precisions outside acceptable control limits due to matrix interferences. LCS results were within acceptable control limits. 7-080502-332.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

JUG 26 2002

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

ANDREW TAFT (404) 656-2833

Collection Date:

WEEK OF 7/15/2002

LAB No. \_\_\_\_\_

Date Submitted To Lab:

HWMB LOG NUMBER:

HW9119

*File a separate Request Sheet for each sample point*



Sample ID AD71055

Location: HWMB

Description: VANTRAN ELECTRIC CORP / HW9119

Collector: A. TAFT

Sample ID: AD71055

Analysis Needed By:

Routine ☒

Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_

Ground Water \_\_\_\_\_

Soil/Sediment ☒

Surface Water \_\_\_\_\_

Sludge \_\_\_\_\_

Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

On-site soil sample to determine absence/presence of haz. substances.

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒

(Acid & Base/Neutral) ☒

Volatiles ☒

Pesticides ☒

Herbicides ☒

Organophosphorous Pesticides ☒

PCB ☒

BETX ☒

Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒

(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒

Mercury ☒

Metals Special Requests: ☒

CYANIDE

4 OZ. JARS

8 OZ. JARS

16 OZ. JARS plastic

4 Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_

Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_

Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_

Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_

Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back): \_\_\_\_\_

Reviewed By: (HWMB): \_\_\_\_\_

Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By (EPD Lab): TB

Date (EPD Lab): 7-16-02

TNB

RECPT TEMP 0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO:</b> Georgia Env Protection Divison Hazardous Waste Mgmt Branch 205 Butler St SE Suite 1154E Atlanta, GA 30334		<b>Date Collected:</b> 7/15/2002 <b>Time Collected:</b> 13:30 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71055 <b>Facility Name:</b> Vantran Electric Corp./ Hw9119 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9119	<b>Received By:</b> TNB <b>Date Received:</b> 7/16/2002 <b>Time Received:</b> 1:40 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C	

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>8260 Volatiles In Soil/Sed. QC Batch 50925</b>								
Dibromofluoromethane(Surrogate QC Std.)		EPA 8260	54	ug/kg (dw)		KDD	7/25/2002	33 to 75
Toluene-d8(Surrogate QC Std.)		EPA 8260	45	ug/kg (dw)		KDD	7/25/2002	39 to 68
Bromofluorobenzene(Surrogate QC Std.)		EPA 8260	38	ug/kg (dw)		KDD	7/25/2002	25 to 60
1,1-Dichloroethane-d4(Surrogate QC Std.)		EPA 8260	52	ug/kg (dw)		KDD	7/25/2002	35 to 65
Dichlorodifluoromethane	34334	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Chloromethane	34421	EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/25/2002	
Bromomethane	34416	EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/25/2002	
Vinyl Chloride	34495	EPA 8260	Not Detected	ug/kg (dw)	2	KDD	7/25/2002	
Chloroethane	34314	EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/25/2002	
Methylene Chloride	34426	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Trichlorofluoromethane	34491	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Acetone	75059	EPA 8260	Not Detected	ug/kg (dw)	100	KDD	7/25/2002	
Dibromomethane	78756	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
trans-1,2-Dichloroethene	34549	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Iodomethane	73121	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Carbon Disulfide	78544	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,1-Dichloroethene	34504	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,1-Dichloroethane	34499	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
cis-1,2-Dichloroethene	77093	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
2,2-Dichloropropane	77170	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Bromochloromethane	77297	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Chloroform	34318	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,1-Dichloropropene	77168	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,2-Dichloroethane	34534	EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppm: parts per million  
 ppb: parts per billion  
 org/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
	CODE	NOTE					ANALYST	DATE	
2-Pentanone	75078		EPA 8260	Not Detected	ug/kg (dw)	100	KDD	7/25/2002	
Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/25/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/25/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	50	KDD	7/25/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Toluene	34483		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/25/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw) J	5	KDD	7/25/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw) J	5	KDD	7/25/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw) J	5	KDD	7/25/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw) J	5	KDD	7/25/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw) J	5	KDD	7/25/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw) J	5	KDD	7/25/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw) J	5	KDD	7/25/2002	
Naphthalene	34445		EPA 8260	Trace	ug/kg (dw) J	5	KDD	7/25/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw) J	5	KDD	7/25/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/25/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
m: parts per million  
b: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Ethyl acetate			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/25/2002	
Total Aldehydes			EPA 8260	60 TIE	ug/kg (dw)		KDD 7/25/2002	
<b>8270 Semi-Vol In Soil/Sed QC Batch 50864</b>								
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	74	ug/kg (dw)	0.00	PS 7/29/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	78	ug/kg (dw)	0.00	PS 7/29/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	80	ug/kg (dw)	0.00	PS 7/29/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	82	ug/kg (dw)	0.00	PS 7/29/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	82	ug/kg (dw)	0.00	PS 7/29/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	84	ug/kg (dw)	0.00	PS 7/29/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
phenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS 7/29/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS 7/29/2002	
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS 7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
pm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
	CODE	NOTE					ANALYST	DATE	
1,2,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1,2,3,4-Tetrachlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4,6-Dinitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
4-Nitrosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1-Naphthylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/29/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
bis(2-Ethylhexyl)phthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
cfu/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS		MCL or QC Range
	CODE	NOTE					ANALYST	DATE	
Nonylphenol	34599		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Dibenz(a,i)acridine			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	28000	PS	7/29/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	22000	PS	7/29/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	56000	PS	7/29/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	28000	PS	7/29/2002	
DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	11000	PS	7/29/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	10100	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	13000000	ug/kg (dw)	D 200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	23000	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	12000	ug/kg (dw)	1000	LA	7/23/2002
Copper	01043	6010 B	36000	ug/kg (dw)	2500	LA	7/23/2002
Iron	01170	6010 B	6000000	ug/kg (dw)	10000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Potassium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Magnesium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	38000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	4300	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	Not Detected	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	19000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	19000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50621

Mercury	EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/22/2002	
---------	-----------	--------------	------------	-----	----	-----------	--

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std	EPA 8081A	Not Detected	ug/kg (dw)		PM	8/4/2002	10.0 to 30.0
DCB surr std	EPA 8081A	21.4	ug/kg (dw)		PM	8/4/2002	20.0 to 60.0
ALDRIN	EPA 8081A	Not Detected	ug/kg (dw)		35	PM	8/4/2002
a-BHC	EPA 8081A	Not Detected	ug/kg (dw)		20	PM	8/4/2002
b-BHC	EPA 8081A	Not Detected	ug/kg (dw)		30	PM	8/4/2002
d-BHC	EPA 8081A	Not Detected	ug/kg (dw)		45	PM	8/4/2002
LINDANE (g-BHC)	EPA 8081A	Not Detected	ug/kg (dw)		10	PM	8/4/2002
CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)		500	PM	8/4/2002
4,4-DDE	EPA 8081A	Not Detected	ug/kg (dw)		30	PM	8/4/2002
4,4-DDD	EPA 8081A	Not Detected	ug/kg (dw)		75	PM	8/4/2002
4,4-DDT	EPA 8081A	Not Detected	ug/kg (dw)		65	PM	8/4/2002
DIELDRIN	EPA 8081A	Not Detected	ug/kg (dw)		20	PM	8/4/2002
ENDOSULFAN I	EPA 8081A	Not Detected	ug/kg (dw)		50	PM	8/4/2002
ENDOSULFAN II	EPA 8081A	Not Detected	ug/kg (dw)		75	PM	8/4/2002
ENDOSULFAN SULFATE	EPA 8081A	Not Detected	ug/kg (dw)		80	PM	8/4/2002
ENDRIN	EPA 8081A	Not Detected	ug/kg (dw)		75	PM	8/4/2002
ENDRIN ALDEHYDE	EPA 8081A	Not Detected	ug/kg (dw)		35	PM	8/4/2002
HEPTACHLOR	EPA 8081A	Not Detected	ug/kg (dw)		50	PM	8/4/2002
HEPTACHLOR EPOXIDE	EPA 8081A	Not Detected	ug/kg (dw)		40	PM	8/4/2002
TOXAPHENE	EPA 8081A	Not Detected	ug/kg (dw)	D	1300	PM	8/4/2002
CHLORPYRIFOS (DURSBAN)	EPA 8081A	Not Detected	ug/kg (dw)		50	PM	8/4/2002
HEXACHLOROBENZENE	EPA 8081A	Not Detected	ug/kg (dw)		10	PM	8/4/2002
METHOXYCHLOR	EPA 8081A	Not Detected	ug/kg (dw)		200	PM	8/4/2002
MIREX	EPA 8081A	Not Detected	ug/kg (dw)		35	PM	8/4/2002
gamma-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)		50	PM	8/4/2002
alpha-CHLORDANE	EPA 8081A	Not Detected	ug/kg (dw)		50	PM	8/4/2002

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std	EPA 8082	20.2	ug/kg (dw)		PM	8/2/2002	10.0 to 30.0
DCBP surr std	EPA 8082	57.0	ug/kg (dw)		PM	8/2/2002	20.0 to 60.0
PCB-1016	EPA 8082	Not Detected	ug/kg (dw)		330	PM	8/2/2002
PCB-1221	EPA 8082	Not Detected	ug/kg (dw)		330	PM	8/2/2002
PCB-1232	EPA 8082	Not Detected	ug/kg (dw)		330	PM	8/2/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	
PCB-1260			EPA 8082	2600	ug/kg (dw)	330	PM	8/2/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/2/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/10/02 for this compound with all QC in compliance.

\$8081S - Reporting Limits elevated due to high concentrations of target and/or non-target compounds in the sample.

\$8081S - Sample had one surrogate, TCMX lost to dilution for high levels of target and/or non-target compounds. 1-082102-604

COMMENTS: \$8082S - Reporting Limits elevated for all analytes due to high levels of target and/or non-target compounds.

COMMENTS: \$8260S- Sample had one internal standard compound, 1,4-Dichlorobenzene-d4 (34% response, limits 50-200%) with response outside acceptable control limits. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-080502-332.

COMMENTS: \$8270S - Reporting limits raised due to elevated concentrations of non-target compounds.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
opm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

AUG 26 20

Facility Name/Location: VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone: ANDREW TAFT (404) 656-2833

Collection Date: WEEK OF 7/15/2002 LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER: HW9118

File a separate Request Sheet for each sample point



Sample ID AD71049  
Location: HWMB  
Description: VANTRAN ELECTRIC CORP./HW9118  
Collector: A. TAFT  
Sample ID: AD71049

Analysis Needed By: Routine ☒ Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_ Soil/Sediment ☒ Sludge \_\_\_\_\_  
Ground Water \_\_\_\_\_ Surface Water \_\_\_\_\_ Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample including Source and Known Properties (e.g. pH, concentration);

On-site soil sample to determine absence/presence of haz. substances

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒  
Volatiles ☒  
Pesticides ☒  
Herbicides ☒  
Organophosphorous Pesticides ☒  
PCB ☒  
BETX ☒  
Total Petroleum Hydrocarbon ☒

2. TOTAL METALS

ICP Metals Scan ☒  
(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒  
Mercury ☒  
Metals Special Requests: ☒

CYANIDE

4 OZ JARS  
8 OZ JARS  
16 OZ JARS plastic  
4 Encores

Organics Special Requests: \_\_\_\_\_

3. TCLP ORGANICS

Volatiles \_\_\_\_\_ Pesticides \_\_\_\_\_  
Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_ Herbicides \_\_\_\_\_  
Additional Specific Organics for TCLP: \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_ Additional Metals for TCLP: \_\_\_\_\_  
Mercury \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_  
Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_  
Date: \_\_\_\_\_

Reviewed By: (EPD Lab): TB  
Date: (EPD Lab): 7-16-02



RECPT TEMP 0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Divison</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/15/2002 <b>Time Collected:</b> 15:30 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b> <b>Received By:</b> TNB <b>Date Received:</b> 7/16/2002 <b>Time Received:</b> 1:40 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C
<b>Sample ID:</b> AD71049 <b>Facility Name:</b> Vantran Electric Corp./ Hw9118 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9118		

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
<b>8260 Volatiles In Soil/Sed. QC Batch 50925</b>								
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	53	ug/kg (dw)	0.00	KDD 7/24/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	51	ug/kg (dw)	0.00	KDD 7/24/2002	39 to 68
Bromofluorobenzene(Surrogate QC Std.)			EPA 8260	50	ug/kg (dw)	0.00	KDD 7/24/2002	25 to 60
Dichloroethane-d4(Surrogate QC Std.)			EPA 8260	51	ug/kg (dw)	0.00	KDD 7/24/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	470	KDD 7/24/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	470	KDD 7/24/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	94	KDD 7/24/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	470	KDD 7/24/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	4700	KDD 7/24/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
Chloroform	34318		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	240	KDD 7/24/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA		QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE	METHOD	RESULT	UNITS	RL	ANALYST	DATE	
2-Butanone	75078		EPA 8260	Not Detected	ug/kg (dw)	4700	KDD	7/24/2002	
1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	2400	KDD	7/24/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	2400	KDD	7/24/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	2400	KDD	7/24/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Toluene	34483		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	470	KDD	7/24/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
n-Propylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Naphthalene	34445		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	240	KDD	7/24/2002	

ug/L: micrograms/liter  
 mg/L: milligrams/liter  
 mg/kg: milligrams/kilogram  
 ug/kg: micrograms/kilogram  
 ug/g: micrograms/gram  
 ppm: parts per million  
 ppb: parts per billion  
 cfu/L: organisms/liter

<: less than  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit  
 LSPC: result less than lower specification  
 USPC: result greater than upper specification  
 TIE: Tentatively Identified or Estimated  
 VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
1,1,2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	470	KDD	7/24/2002	
Methyl acetate			EPA 8260	Not Detected	ug/kg (dw)	470	KDD	7/24/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	470	KDD	7/24/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	470	KDD	7/24/2002	
Total Hydrocarbons			EPA 8260	20000 TIE	ug/kg (dw)	0.00	KDD	7/24/2002	
Cis-Isopulegone			EPA 8260	1600 TIE	ug/kg (dw)	0.00	KDD	7/24/2002	
<b>8270 Semi-Vol In Soil/Sed QC Batch 50864</b>									
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	75	ug/kg (dw)	0.00	PS	7/29/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	78	ug/kg (dw)	0.00	PS	7/29/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	101	ug/kg (dw)	0.00	PS	7/29/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	91	ug/kg (dw)	0.00	PS	7/29/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	93	ug/kg (dw)	0.00	PS	7/29/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	80	ug/kg (dw)	0.00	PS	7/29/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	47000	PS	7/29/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	47000	PS	7/29/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	47000	PS	7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,4,5-Tetrachlorobenzene	79787		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Hexachlorocyclopentadiene	34389		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,4,6-Trichlorophenol	34624		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,4,5-Trichlorophenol	78401		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Chloronaphthalene	34584		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Nitroaniline	78299		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Dimethylphthalate	34344		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Acenaphthylene	34203		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,6-Dinitrotoluene	34629		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
3-Nitroaniline	78869		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Acenaphthene	34208		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,4-Dinitrophenol	34619		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
4-Nitrophenol	34649		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Dibenzofuran	75647		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Pentachlorobenzene	79790		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,4-Dinitrotoluene	34614		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1-Naphthylamine	73143		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2-Naphthylamine	73124		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Diethylphthalate	34339		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Fluorene	34384		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Chlorophenyl-phenylether	34644		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Nitroaniline	78870		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Diphenylamine			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Dinitro-2-methylphenol	34660		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Nitrosodiphenylamine	34436		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1,2-Diphenylhydrazine	34349		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Bromophenyl-phenylether	34639		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Phenacetin	73117		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Hexachlorobenzene	39701		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
4-Aminobiphenyl	73125		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Pentachlorophenol	39061		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Pronamide	73031		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Pentachloronitrobenzene	81808		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Phenanthrene	34464		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Anthracene	34223		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Di-n-butylphthalate	39112		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Fluoranthene	34379		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzidine	39121		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Pyrene	34472		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
p-Dimethylaminoazobenzene	73116		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Butylbenzylphthalate	34295		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzo[a]anthracene	34529		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
3,3'-Dichlorobenzidine	34634		EPA 8270C	Not Detected	ug/kg (dw)	47000	PS	7/29/2002	
Chrysene	34323		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Diethylhexylphthalate	39102		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
n-octylphthalate	34599		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzo[b]fluoranthene	34233		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzo[k]fluoranthene	34245		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
7,12-Dimethylbenz(a)anthracene	73115		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzo[a]pyrene	34250		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
3-Methylcholanthrene	73156		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Dibenz(a,i)acridine			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Indeno[1,2,3-cd]pyrene	34406		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Dibenz[a,h]anthracene	34559		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzo[g,h,i]perylene	34524		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Pyridine	73312		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Alpha-BHC	39076		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Gamma-BHC	39343		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Beta-BHC	34257		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Delta-BHC	34262		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Heptachlor	39413		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Aldrin	39333		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Heptachlor Epoxide	39423		EPA 8270C	Not Detected	ug/kg (dw)	59000	PS	7/29/2002	
Endosulfan 1	34364		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
Dieldrin	39383		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
p,p'-DDE	39321		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Endrin	39393		EPA 8270C	Not Detected	ug/kg (dw)	48000	PS	7/29/2002	
Endosulfan 2	34359		EPA 8270C	Not Detected	ug/kg (dw)	120000	PS	7/29/2002	
p,p'-DDD	39311		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Endrin Aldehyde	34369		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Endosulfan Sulfate	34354		EPA 8270C	Not Detected	ug/kg (dw)	59000	PS	7/29/2002	
DDT	39301		EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Atrazine			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Carbazole			EPA 8270C	Not Detected	ug/kg (dw)	24000	PS	7/29/2002	
Total Hydrocarbons			EPA 8270C	1200000 TIE	ug/kg (dw)		PS	7/29/2002	

#### QC Batch 50520

Cyanide in Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	11000	BS	7/24/2002
---------------------	-------	------------	--------------	------------	-------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	23000000	ug/kg (dw)	200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	27000	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	19000	ug/kg (dw)	1000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Copper	01043		6010 B	18000	ug/kg (dw)	2500	LA	7/23/2002	
Iron	01170		6010 B	11000000	ug/kg (dw)	D 100000	LA	7/23/2002	
Potassium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Magnesium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	50000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	8600	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	51000	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	29000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	43000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50621

Mercury			EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/22/2002	
---------	--	--	-----------	--------------	------------	-----	----	-----------	--

#### Pesticides In Sediment/Soil QC Batch 50514

TCMX surr std			EPA 8081A	Not Detected	ug/kg (dw)		JSM	8/4/2002	10.0 to 30.0
DCB surr std			EPA 8081A	Not Detected	ug/kg (dw)		JSM	8/4/2002	20.0 to 60.0
ALDRIN			EPA 8081A	Not Detected	ug/kg (dw)	35	JSM	8/4/2002	
a-BHC			EPA 8081A	Not Detected	ug/kg (dw)	20	JSM	8/4/2002	
b-BHC			EPA 8081A	Not Detected	ug/kg (dw)	30	JSM	8/4/2002	
d-BHC			EPA 8081A	Not Detected	ug/kg (dw)	45	JSM	8/4/2002	
LINDANE (g-BHC)			EPA 8081A	Not Detected	ug/kg (dw)	10	JSM	8/4/2002	
CHLORDANE			EPA 8081A	Not Detected	ug/kg (dw)	500	JSM	8/4/2002	
4,4-DDE			EPA 8081A	Not Detected	ug/kg (dw)	30	JSM	8/4/2002	
4,4-DDD			EPA 8081A	Not Detected	ug/kg (dw)	75	JSM	8/4/2002	
DDT			EPA 8081A	Not Detected	ug/kg (dw)	65	JSM	8/4/2002	
DIELDRIN			EPA 8081A	Not Detected	ug/kg (dw)	20	JSM	8/4/2002	
ENDOSULFAN I			EPA 8081A	Not Detected	ug/kg (dw)	50	JSM	8/4/2002	
ENDOSULFAN II			EPA 8081A	Not Detected	ug/kg (dw)	75	JSM	8/4/2002	
ENDOSULFAN SULFATE			EPA 8081A	Not Detected	ug/kg (dw)	80	JSM	8/4/2002	
ENDRIN			EPA 8081A	Not Detected	ug/kg (dw)	75	JSM	8/4/2002	
ENDRIN ALDEHYDE			EPA 8081A	Not Detected	ug/kg (dw)	35	JSM	8/4/2002	
HEPTACHLOR			EPA 8081A	Not Detected	ug/kg (dw)	50	JSM	8/4/2002	
HEPTACHLOR EPOXIDE			EPA 8081A	Not Detected	ug/kg (dw)	40	JSM	8/4/2002	
TOXAPHENE			EPA 8081A	Not Detected	ug/kg (dw)	D 1300	JSM	8/4/2002	
CHLORPYRIFOS (DURSBAN)			EPA 8081A	Not Detected	ug/kg (dw)	50	JSM	8/4/2002	
HEXACHLORO BENZENE			EPA 8081A	Not Detected	ug/kg (dw)	10	JSM	8/4/2002	
METHOXYCHLOR			EPA 8081A	Not Detected	ug/kg (dw)	200	JSM	8/4/2002	
MIREX			EPA 8081A	Not Detected	ug/kg (dw)	35	JSM	8/4/2002	
gamma-CHLORDANE			EPA 8081A	Not Detected	ug/kg (dw)	50	JSM	8/4/2002	
alpha-CHLORDANE			EPA 8081A	Not Detected	ug/kg (dw)	50	JSM	8/4/2002	

#### PCBs In Sediments or Soils QC Batch 50515

TCMX surr std			EPA 8082	17.1	ug/kg (dw)		PM	8/3/2002	10.0 to 30.0
DCBP surr std			EPA 8082	53.5	ug/kg (dw)		PM	8/3/2002	20.0 to 60.0
PCB-1016			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics: Pat Sammons 404-206-5239  
Metals: Mark Tolbert 404-206-5240  
Organics: Danny Reed 404-206-5252  
GC Mass Spec: Steve Bryan 404-206-5260  
Microbiology: Viola Reynolds 404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
PCB-1221			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1232			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1260			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	330	PM	8/3/2002	

COMMENTS: \$8081S - "D" Sample analyzed on 8/10/02 for this compound with all QC in compliance.

\$8081S - Reporting Limits elevated due to high concentrations of target and/or non-target compounds in the sample.

\$8081S - Both surrogates, TCMX and DCB lost to dilution for high levels of target and/or non-target compounds. 1-082102-604

COMMENTS: \$8082S - Reporting Limits elevated due to high levels of non-target compounds.

COMMENTS: \$8260S - Reporting limits raised due to elevated concentrations of non-target compounds.

COMMENTS: \$8270S - Reporting limits raised due to elevated concentrations of non-target compounds.

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

AUG 26 2002

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

ANDREW TAFT (404) 656-2833

Collection Date:

WEEK OF 7/15/2002

LAB No. \_\_\_\_\_

Date Submitted To Lab: \_\_\_\_\_

HWMB LOG NUMBER:

HW9117

*File a separate Request Sheet for each sample point*



Sample ID AD71045

Location: HWMB

Description: VANTRAN ELECTRIC CORP / HW9117

Collector: A. TAFT

Sample ID: AD71045

Analysis Needed By:

Routine ☒

Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_

Ground Water \_\_\_\_\_

Soil/Sediment ☒

Surface Water \_\_\_\_\_

Sludge \_\_\_\_\_

Drinking Water Well \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other (e.g., rinse blank - specify) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

On-site soil sample to determine absence/presence of haz. substances.

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions:

Possibly contains PCBs

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒

(Acid & Base/Neutral) ☒

Volatiles ☒

Pesticides ☒

Herbicides ☒

Organophosphorous Pesticides ☒

PCB ☒

BETX ☒

Total Petroleum Hydrocarbon ☒

Organics Special Requests: \_\_\_\_\_

2. TOTAL METALS

ICP Metals Scan ☒

(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒

Mercury ☒

Metals Special Requests: ☒

4 OZ JARS

8 OZ JARS CYANIDE

16 OZ JARS plastic

Encores

3. TCLP ORGANICS

Volatiles \_\_\_\_\_

Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_

Additional Specific Organics for TCLP: \_\_\_\_\_

Pesticides \_\_\_\_\_

Herbicides \_\_\_\_\_

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_

Mercury \_\_\_\_\_

Additional Metals for TCLP: \_\_\_\_\_

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_

Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By: (EPD Lab): TB

Date (EPD Lab): 7-16-02

TNB

RECPT TEMP

0.0

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Division</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/15/2002 <b>Time Collected:</b> 11:15 <b>Sample Collector:</b> A. TAFT <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71045 <b>Facility Name:</b> Vantran Electric Corp./ Hw9117 <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9117	<b>Received By:</b> TNB <b>Date Received:</b> 7/16/2002 <b>Time Received:</b> 1:40 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/22/2002 <b>Received Temperature:</b> 0.0 °C	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>8260 Volatiles In Soil/Sed. QC Batch 50679</b>									
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260	53	ug/kg (dw)		KDD	7/22/2002	33 to 75
Toluene-d8(Surrogate QC Std.)			EPA 8260	49	ug/kg (dw)		KDD	7/22/2002	39 to 68
Bromofluorobenzene(Surrogate QC Std.)			EPA 8260	44	ug/kg (dw)		KDD	7/22/2002	25 to 60
Dichloroethane-d4(Surrogate QC Std.)			EPA 8260	50	ug/kg (dw)		KDD	7/22/2002	35 to 65
Dichlorodifluoromethane	34334		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Chloromethane	34421		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Bromomethane	34416		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Vinyl Chloride	34495		EPA 8260	Not Detected	ug/kg (dw)	2	KDD	7/22/2002	
Chloroethane	34314		EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Methylene Chloride	34426		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Trichlorofluoromethane	34491		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Acetone	75059		EPA 8260	Not Detected	ug/kg (dw)	100	KDD	7/22/2002	
Dibromomethane	78756		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
trans-1,2-Dichloroethene	34549		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Iodomethane	73121		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Carbon Disulfide	78544		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1-Dichloroethene	34504		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1-Dichloroethane	34499		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
cis-1,2-Dichloroethene	77093		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
2,2-Dichloropropane	77170		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Bromochloromethane	77297		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
Chloroform	34318		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,1-Dichloropropene	77168		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	
1,2-Dichloroethane	34534		EPA 8260	Not Detected	ug/kg (dw)	5	KDD	7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
2-Butanone	75078		EPA 8260	Not Detected	ug/kg (dw)	100	KDD 7/22/2002	
1,1-Trichloroethane	34509		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Carbon Tetrachloride	34299		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Vinyl Acetate	78498		EPA 8260	Not Detected	ug/kg (dw)	50	KDD 7/22/2002	
Bromodichloromethane	34330		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,2-Dichloropropane	34544		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Trichloroethene	34487		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Benzene	34237		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
cis-1,3-Dichloropropene	34702		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
trans-1,3-Dichloropropene	34697		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Dibromochloromethane	34309		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,1,2-Trichloroethane	34514		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Bromoform	34290		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,2,3-Trichloropropane	78490		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
4-Methyl-2-Pentanone	75169		EPA 8260	Not Detected	ug/kg (dw)	50	KDD 7/22/2002	
2-Hexanone	75166		EPA 8260	Not Detected	ug/kg (dw)	50	KDD 7/22/2002	
Tetrachloroethene	34478		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,1,2,2-Tetrachloroethane	34519		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Toluene	34483		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,2-Dibromoethane	79749		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Chlorobenzene	34304		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Ethylbenzene	34374		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,1,1,2-Tetrachloroethane			EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Styrene	75192		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
p,m-Xylene	45510		EPA 8260	Not Detected	ug/kg (dw)	10	KDD 7/22/2002	
o-Xylene	78362		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
m-Propylbenzene	77223		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Bromobenzene	78491		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
2-Chlorotoluene	77225		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,2,4-Trimethylbenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,3-Dichlorobenzene	34569		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,4-Dichlorobenzene	34574		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,2-Dichlorobenzene	34539		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,2-Dibromo-3-chloropropane	99999		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,2,4-Trichlorobenzene	34554		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Hexachlorobutadiene	39705		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Naphthalene	34445		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	
Methyl tert-butyl ether			EPA 8260	Not Detected	ug/kg (dw)	5	KDD 7/22/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
1,1,2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
ethyl acetate			EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Cyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Methylcyclohexane			EPA 8260	Not Detected	ug/kg (dw)	10	KDD	7/22/2002	
Total Aldehydes			EPA 8260	51 TIE	ug/kg (dw)		KDD	7/22/2002	
<b>8270 Semi-Vol In Soil/Sed QC Batch 50864</b>									
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	78	ug/kg (dw)	0.00	PS	7/24/2002	10 to 113
Phenol-d5(Surrogate QC Std.)			EPA 8270C	84	ug/kg (dw)	0.00	PS	7/24/2002	10 to 125
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	83	ug/kg (dw)	0.00	PS	7/24/2002	12 to 127
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	84	ug/kg (dw)	0.00	PS	7/24/2002	14 to 136
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	87	ug/kg (dw)	0.00	PS	7/24/2002	10 to 133
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	100	ug/kg (dw)	0.00	PS	7/24/2002	25 to 148
n-Nitrosodimethylamine	34441		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-Picoline	73310		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Methylmethanesulfonate	73119		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Ethylmethanesulfonate	73118		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Aniline	73185		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Phenol	34695		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
bis(2-Chloroethyl)ether	34276		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-Chlorophenol	34589		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1,3-Dichlorobenzene	34569		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1,4-Dichlorobenzene	34574		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzyl alcohol	75212		EPA 8270C	Not Detected	ug/kg (dw)	2100	PS	7/24/2002	
1,2-Dichlorobenzene	34539		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
bis(2-Chloroisopropyl)ether	34286		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
acetophenone	73272		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-ethylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
n-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Hexachloroethane	34399		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Nitrobenzene	34450		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
n-Nitrosopiperidine	73129		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Isophorone	34411		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-Nitrophenol	34594		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,4-Dimethylphenol	34609		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
bis(2-Chloroethoxy)methane	34281		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzoic acid	75315		EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	7/24/2002	
2,4-Dichlorophenol	34604		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1,2,4-Trichlorobenzene	34554		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
aa-dimethyl-Phenethylamine	73136		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Naphthalene	34445		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-Chloroaniline	78867		EPA 8270C	Not Detected	ug/kg (dw)	2100	PS	7/24/2002	
2,6-Dichlorophenol	73122		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Hexachlorobutadiene	38705		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
n-Nitroso-di-n-butylamine	73159		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-Chloro-3-methylphenol	34455		EPA 8270C	Not Detected	ug/kg (dw)	2100	PS	7/24/2002	
2-Methylnaphthalene	78868		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
opm: parts per million  
pb: parts per billion  
cfu/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
1,2,4,5-Tetrachlorobenzene	79787	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Hexachlorocyclopentadiene	34389	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,4,6-Trichlorophenol	34624	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,4,5-Trichlorophenol	78401	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-Chloronaphthalene	34584	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1-Chloronaphthalene		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-Nitroaniline	78299	EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	7/24/2002	
Dimethylphthalate	34344	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Acenaphthylene	34203	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,6-Dinitrotoluene	34629	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
3-Nitroaniline	78869	EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	7/24/2002	
Acenaphthene	34208	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,4-Dinitrophenol	34619	EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	7/24/2002	
4-Nitrophenol	34649	EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	7/24/2002	
Dibenzofuran	75647	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Pentachlorobenzene	79790	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,4-Dinitrotoluene	34614	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1-Naphthylamine	73143	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2-Naphthylamine	73124	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
2,3,4,6-Tetrachlorophenol		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Diethylphthalate	34339	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Fluorene	34384	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-Chlorophenyl-phenylether	34644	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-Nitroaniline	78870	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Diphenylamine		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4,6-Dinitro-2-methylphenol	34660	EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	7/24/2002	
4-Tolrosodiphenylamine	34436	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-TolDiphenylhydrazine	34349	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-Bromophenyl-phenylether	34639	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Phenacetin	73117	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Hexachlorobenzene	39701	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
4-Aminobiphenyl	73125	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Pentachlorophenol	39061	EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	7/24/2002	
Pronamide	73031	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Pentachloronitrobenzene	81808	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Phenanthrene	34464	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Anthracene	34223	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Di-n-butylphthalate	39112	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Fluoranthene	34379	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzidine	39121	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Pyrene	34472	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
p-Dimethylaminoazobenzene	73116	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Butylbenzylphthalate	34295	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzo[a]anthracene	34529	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
3,3'-Dichlorobenzidine	34634	EPA 8270C	Not Detected	ug/kg (dw)	2100	PS	7/24/2002	
Chrysene	34323	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
bis(2-Ethylhexyl)phthalate	39102	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	EPA NOTE METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
n-octylphthalate	34599	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzo[b]fluoranthene	34233	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzo[k]fluoranthene	34245	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
7,12-Dimethylbenz(a)anthracene	73115	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzo[a]pyrene	34250	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
3-Methylcholanthrene	73156	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Dibenz(a,h)acridine		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Indeno[1,2,3-cd]pyrene	34406	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Dibenz[a,h]anthracene	34559	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzo[g,h,i]perylene	34524	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Pyridine	73312	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Alpha-BHC	39076	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Gamma-BHC	39343	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Beta-BHC	34257	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Delta-BHC	34262	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Heptachlor	39413	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Aldrin	39333	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Heptachlor Epoxide	39423	EPA 8270C	Not Detected	ug/kg (dw)	2600	PS	7/24/2002	
Endosulfan 1	34364	EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	7/24/2002	
Dieldrin	39383	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
p,p'-DDE	39321	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Endrin	39393	EPA 8270C	Not Detected	ug/kg (dw)	2100	PS	7/24/2002	
Endosulfan 2	34359	EPA 8270C	Not Detected	ug/kg (dw)	5300	PS	7/24/2002	
p,p'-DDD	39311	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Endrin Aldehyde	34369	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Endosulfan Sulfate	34354	EPA 8270C	Not Detected	ug/kg (dw)	2600	PS	7/24/2002	
DDT	39301	EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Benzaldehyde		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Caprolactam		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
1,1'-Biphenyl		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Atrazine		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Carbazole		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/24/2002	
Hexadecanoic acid		EPA 8270C	1600 TIE	ug/kg (dw)	0.00	PS	7/24/2002	
3-(4-Methoxyphenyl)-2-propenoic acid		EPA 8270C	1500 TIE	ug/kg (dw)	0.00	PS	7/24/2002	

#### QC Batch 50520

Cyanide In Sediment	00721	9010B/9012	Not Detected	ug/kg (dw)	9400	BS	7/24/2002
---------------------	-------	------------	--------------	------------	------	----	-----------

#### Target analyte list for solids by ICP QC Batch 50616

Silver	01078	6010 B	Not Detected	ug/kg (dw)	1000	LA	7/23/2002
Aluminum	01108	6010 B	11000000	ug/kg (dw)	200000	LA	7/23/2002
Arsenic	01003	6010 B	Not Detected	ug/kg (dw)	8000	LA	7/23/2002
Barium	01008	6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002
Beryllium	01013	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Calcium	00917	6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002
Cadmium	01028	6010 B	Not Detected	ug/kg (dw)	500	LA	7/23/2002
Cobalt	01038	6010 B	Not Detected	ug/kg (dw)	5000	LA	7/23/2002
Chromium	01029	6010 B	10000	ug/kg (dw)	1000	LA	7/23/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA		QUALIFIER	ANALYSIS			MCL or QC Range
	CODE	NOTE	METHOD	RESULT		RL	ANALYST	DATE	
Copper	01043		6010 B	5800	ug/kg (dw)	2500	LA	7/23/2002	
	01170		6010 B	5100000	ug/kg (dw)	10000	LA	7/23/2002	
Potassium	00938		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Magnesium	00924		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Manganese	01053		6010 B	48000	ug/kg (dw)	1500	LA	7/23/2002	
Sodium	00934		6010 B	Not Detected	ug/kg (dw)	500000	LA	7/23/2002	
Nickel	01068		6010 B	4100	ug/kg (dw)	4000	LA	7/23/2002	
Lead	01052		6010 B	Not Detected	ug/kg (dw)	9000	LA	7/23/2002	
Antimony	01098		6010 B	Not Detected	ug/kg (dw)	12000	LA	7/23/2002	
Selenium	01148		6010 B	Not Detected	ug/kg (dw)	19000	LA	7/23/2002	
Thallium	34480		6010 B	Not Detected	ug/kg (dw)	20000	LA	7/23/2002	
Vanadium	01088		6010 B	15000	ug/kg (dw)	5000	LA	7/23/2002	
Zinc	01093		6010 B	21000	ug/kg (dw)	2000	LA	7/23/2002	

#### QC Batch 50621

Mercury		EPA 7471A	Not Detected	ug/kg (dw)	100	PB	7/22/2002	
---------	--	-----------	--------------	------------	-----	----	-----------	--

#### Pesticides in Sediment/Soil QC Batch 50514

TCMX surr std		EPA 8081A	15.7	ug/kg (dw)	D2	JSM	8/4/2002	10.0 to 30.0
DCB surr std		EPA 8081A	37.4	ug/kg (dw)	D2	JSM	8/4/2002	20.0 to 60.0
ALDRIN		EPA 8081A	Not Detected	ug/kg (dw)		3.5	JSM	8/4/2002
a-BHC		EPA 8081A	Not Detected	ug/kg (dw)	D2	2.0	JSM	8/4/2002
b-BHC		EPA 8081A	Not Detected	ug/kg (dw)		3.0	JSM	8/4/2002
d-BHC		EPA 8081A	Not Detected	ug/kg (dw)		4.5	JSM	8/4/2002
LINDANE (g-BHC)		EPA 8081A	Not Detected	ug/kg (dw)	D2	1.0	JSM	8/4/2002
CHLORDANE		EPA 8081A	Not Detected	ug/kg (dw)		50	JSM	8/4/2002
4,4-DDE		EPA 8081A	Not Detected	ug/kg (dw)		3.0	JSM	8/4/2002
4-DDD		EPA 8081A	Not Detected	ug/kg (dw)	D2	7.5	JSM	8/4/2002
DT		EPA 8081A	Not Detected	ug/kg (dw)	D2	6.5	JSM	8/4/2002
DIELDRIN		EPA 8081A	Not Detected	ug/kg (dw)	D2	2.0	JSM	8/4/2002
ENDOSULFAN I		EPA 8081A	Not Detected	ug/kg (dw)	D2	5.0	JSM	8/4/2002
ENDOSULFAN II		EPA 8081A	Not Detected	ug/kg (dw)		7.5	JSM	8/4/2002
ENDOSULFAN SULFATE		EPA 8081A	Not Detected	ug/kg (dw)		8.0	JSM	8/4/2002
ENDRIN		EPA 8081A	Not Detected	ug/kg (dw)	D2	7.5	JSM	8/4/2002
ENDRIN ALDEHYDE		EPA 8081A	Not Detected	ug/kg (dw)		3.5	JSM	8/4/2002
HEPTACHLOR		EPA 8081A	Not Detected	ug/kg (dw)	D2	5.0	JSM	8/4/2002
HEPTACHLOR EPOXIDE		EPA 8081A	Not Detected	ug/kg (dw)		4.0	JSM	8/4/2002
TOXAPHENE		EPA 8081A	Not Detected	ug/kg (dw)	D1	130	JSM	8/4/2002
CHLORPYRIFOS (DURSABN)		EPA 8081A	Not Detected	ug/kg (dw)		5.0	JSM	8/4/2002
HEXACHLOROBENZENE		EPA 8081A	Not Detected	ug/kg (dw)		1.0	JSM	8/4/2002
METHOXYCHLOR		EPA 8081A	Not Detected	ug/kg (dw)	D2	20	JSM	8/4/2002
MIREX		EPA 8081A	Not Detected	ug/kg (dw)	D2	3.5	JSM	8/4/2002
gamma-CHLORDANE		EPA 8081A	Not Detected	ug/kg (dw)		5.0	JSM	8/4/2002
alpha-CHLORDANE		EPA 8081A	Not Detected	ug/kg (dw)		5.0	JSM	8/4/2002

#### PCBs in Sediments or Soils QC Batch 50515

TCMX surr std		EPA 8082	14.1	ug/kg (dw)	D	PM	8/2/2002	10.0 to 30.0
DCBP surr std		EPA 8082	37.4	ug/kg (dw)	D	PM	8/2/2002	20.0 to 60.0
PCB-1016		EPA 8082	Not Detected	ug/kg (dw)	D	33	PM	8/2/2002

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
cfu/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA	RESULT	QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE	METHOD		UNITS	RL	ANALYST	DATE	
PCB-1221			EPA 8082	Not Detected	ug/kg (dw)	D	33	PM	8/2/2002
B-1232			EPA 8082	Not Detected	ug/kg (dw)	D	33	PM	8/2/2002
PCB-1242			EPA 8082	Not Detected	ug/kg (dw)	D	33	PM	8/2/2002
PCB-1248			EPA 8082	Not Detected	ug/kg (dw)	D	33	PM	8/2/2002
PCB-1254			EPA 8082	Not Detected	ug/kg (dw)	D	33	PM	8/2/2002
PCB-1260			EPA 8082	1400	ug/kg (dw)		330	PM	8/2/2002
PCB-1262			EPA 8082	Not Detected	ug/kg (dw)	D	33	PM	8/2/2002

COMMENTS: \$8081S - "D1" Sample analyzed on 8/10/02 for this compound with all QC in compliance.

\$8081S - "D2" Sample analyzed on 8/13/02 for these compounds with all QC in compliance.

COMMENTS: \$8082S - Reporting Limits elevated for PCB 1260 due to high levels of target and/or non-target compounds.

\$8082S - "D" - Sample analyzed for these compounds on 8/3/02 with all QC in compliance.

COMMENTS: \$P\_8270S - Matrix Spike had two compounds, 4-Nitrophenol (54.0% RPD, limit <40%), and Pentachlorophenol (59.3% RPD, limit <40%), with precision outside acceptable control limits due to matrix interferences. LCS results are within acceptable control limits. 7-073102-329.

COMMENTS: \$R\_TAL\_S: ICP Metals - Matrix Spike had two analytes, Aluminum (3000% recovery, limits 70-130%), and Iron (0.0% recovery, limits 70-130%), with a percent recovery outside acceptable control limits due to high concentration of target analytes in sample. Matrix spike had two analytes, Barium (140% recovery, limits 70-130%), and Antimony (60.4% recovery, limits 70-130%), with a percent recovery outside acceptable control limits due to matrix interference. 2-072302-196.

COMMENTS: \$R\_8082S - Matrix Spike had one compound PCB 1260 (48.0% recovery, limits 50 - 150%), with a percent recovery outside of acceptable limits due to matrix interferences. LCS/LCSD results were within acceptable control limits. 1-081402-580

COMMENTS: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

COMMENTS:

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
opm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210



HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)  
REQUEST FOR LABORATORY ANALYSIS

AUG 26 2002

Facility Name/Location:

VANTRAN ELECTRIC CORPORATION

Sample Collected By/Phone:

ANDREW TAFT (404) 656-2833

Collection Date:

WEEK OF 7/15/2002

LAB No. \_\_\_\_\_

Date Submitted To Lab:

HWMB LOG NUMBER:

HW9116 7-9-02

File a separate Request Sheet for each sample point

Analysis Needed By:

Routine ☒

Other (specify) \_\_\_\_\_

Sample Description (check one)

Waste \_\_\_\_\_

Ground Water \_\_\_\_\_

Soil/Sediment \_\_\_\_\_

Surface Water \_\_\_\_\_

Concentration of Organics Requested (estimated): High \_\_\_\_\_ Low \_\_\_\_\_ Other ( ) \_\_\_\_\_

Describe Sample Including Source and Known Properties (e.g. pH, concentration);

Groundwater Trip Blank Surface Water Blank (Trip)

Applicable Hazardous Waste Codes (if known) \_\_\_\_\_

Special Precautions: \_\_\_\_\_

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles ☒  
(Acid & Base/Neutral) ☒  
Volatiles ☒  
Pesticides ☒  
Herbicides ☒  
Organophosphorous Pesticides ☒  
PCB ☒  
BETX ☒  
Total Petroleum Hydrocarbon ☒

2. TOTAL METALS

ICP Metals Scan ☒  
(Ag,As,Ba,Cd,Cr,Ni,Pb,Se) ☒  
Mercury ☒  
Metals Special Requests: ☒

3. TCLP ORGANICS

Volatiles \_\_\_\_\_  
Semi-Volatiles (Acid & Base/Neutral) \_\_\_\_\_  
Additional Specific Organics for TCLP: \_\_\_\_\_

HALF GALLONS/CYANIDE

NUTRIENTS/SULFATES

FCOL BOTTLES

METAL BOTTLES

AMBER BOTTLES

VOC VIALS BIK

4. TCLP METALS ANALYSIS

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se) \_\_\_\_\_  
Mercury \_\_\_\_\_

SULFIDES/PHENOLS

OIL AND GREASE

5. ADDITIONAL ANALYSIS REQUESTED (see list on back):

Reviewed By: (HWMB): \_\_\_\_\_

Approved By: (HWMB): \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By: (EPD Lab): \_\_\_\_\_

Date (EPD Lab): \_\_\_\_\_

RECPT TEMP

TNB

**GEORGIA DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION**

455 14th Street NW, Atlanta, GA 30318-7900  
(404) 206-5269

**LABORATORY REPORT**

<b>TO: Georgia Env Protection Divison</b> <b>Hazardous Waste Mgmt Branch</b> <b>205 Butler St SE Suite 1154E</b> <b>Atlanta, GA 30334</b>		<b>Date Collected:</b> 7/9/2002 <b>Time Collected:</b> 0:00 <b>Sample Collector:</b> EPD LABORATO <b>Chlorination:</b> <b>Sample Type:</b>
<b>Sample ID:</b> AD71310 <b>Facility Name:</b> Vantran Electric/Hw9116.Tblank <b>Site ID:</b> HWMB <b>Location ID:</b> <b>Location Descr:</b> HW9116 TRIP BLANK	<b>Received By:</b> TNB <b>Date Received:</b> 7/17/2002 <b>Time Received:</b> 12:31 PM <b>Project:</b> HW <b>Reporting Date:</b> 8/21/2002 <b>Received Temperature:</b> 0.0 ° C	

ANALYTE	PARAMETER CODE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST	DATE	MCL or QC Range
<b>8260 In Water QC Batch 50765</b>								
Dibromofluoromethane(Surrogate QC Std.)		EPA 8260	48	ug/L		LCS	7/25/2002	43 to 60
Toluene-d8(Surrogate QC Std.)		EPA 8260	50	ug/L		LCS	7/25/2002	40 to 60
Bromofluorobenzene(Surrogate QC Std.)		EPA 8260	48	ug/L		LCS	7/25/2002	40 to 54
1,1-Dichloroethane-d4(Surrogate QC Std.)		EPA 8260	48	ug/L		LCS	7/25/2002	35 to 65
Dichlorodifluoromethane	34668	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Chloromethane	34418	EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
Bromomethane	34413	EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
Vinyl Chloride	39175	EPA 8260	Not Detected	ug/L	2	LCS	7/25/2002	
Chloroethane	34311	EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
Methylene Chloride	34423	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Trichlorofluoromethane	34488	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Acetone	81552	EPA 8260	Not Detected	ug/L	100	LCS	7/25/2002	
Dibromomethane	77596	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
trans-1,2-Dichloroethene	34546	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Iodomethane	77424	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Carbon Disulfide	77041	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1-Dichloroethene	34501	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1-Dichloroethane	34496	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
cis-1,2-Dichloroethene	77093	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
2,2-Dichloropropane	77170	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Bromochloromethane	77297	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
Chloroform	32106	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,1-Dichloropropene	77168	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	
1,2-Dichloroethane	32103	EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

**Laboratory Contacts:**

Inorganics: Pat Sammons 404-206-5239  
Metals: Mark Tolbert 404-206-5240  
Organics: Danny Reed 404-206-5252  
GC Mass Spec: Steve Bryan 404-206-5260  
Microbiology: Viola Reynolds 404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYSIS ANALYST DATE	MCL or QC Range
Butanone	81595		EPA 8260	Not Detected	ug/L	100	LCS 7/25/2002	
1,1-Trichloroethane	34506		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Carbon Tetrachloride	32102		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Vinyl Acetate	77057		EPA 8260	Not Detected	ug/L	50	LCS 7/25/2002	
Bromodichloromethane	32101		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2-Dichloropropane	34541		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Trichloroethane	39180		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Benzene	34030		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
2-Chloroethyl vinyl ether	34576		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
cis-1,3-Dichloropropene	34704		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
trans-1,3-Dichloropropene	34699		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Dibromochloromethane	32105		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1,2-Trichloroethane	34511		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Bromoform	32104		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2,3-Trichloropropane	77443		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
4-Methyl-2-Pentanone	81596		EPA 8260	Not Detected	ug/L	50	LCS 7/25/2002	
2-Hexanone	77103		EPA 8260	Not Detected	ug/L	50	LCS 7/25/2002	
Tetrachloroethene	34475		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,3-Dichloropropane	77173		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1,2,2-Tetrachloroethane	34516		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Toluene	34010		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2-Dibromoethane	77651		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Chlorobenzene	34301		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Ethylbenzene	34371		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,1,1,2-Tetrachloroethane	77562		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Styrene	77128		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
m-Xylene	77135		EPA 8260	Not Detected	ug/L	10	LCS 7/25/2002	
o-Xylene	77135		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Isopropylbenzene	77223		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Bromobenzene	81555		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
n-Propylbenzene	77224		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
2-Chlorotoluene	77275		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,3,5-Trimethylbenzene	77226		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
4-Chlorotoluene	77277		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
tert-Butylbenzene	77353		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2,4-Trimethylbenzene	77222		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
sec-Butylbenzene	77350		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,3-Dichlorobenzene	34566		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
p-Isopropyltoluene	77356		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,4-Dichlorobenzene	34571		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
n-Butylbenzene	77342		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2-Dichlorobenzene	34536		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2-Dibromo-3-chloropropane			EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2,4-Trichlorobenzene	34551		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Hexachlorobutadiene	38702		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
Naphthalene	34696		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	
1,2,3-Trichlorobenzene	77613		EPA 8260	Not Detected	ug/L	5	LCS 7/25/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER		EPA METHOD	RESULT	QUALIFIER		ANALYSIS		MCL or QC Range
	CODE	NOTE			UNITS	RL	ANALYST	DATE	
cyclohexane			EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
methylcyclohexane			EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
1,1,2-Trichlorotrifluoroethane			EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
Methyl acetate			EPA 8260	Not Detected	ug/L	10	LCS	7/25/2002	
methyl tert-butyl ether			EPA 8260	Not Detected	ug/L	5	LCS	7/25/2002	

ug/L: micrograms/liter  
mg/L: milligrams/liter  
mg/kg: milligrams/kilogram  
ug/kg: micrograms/kilogram  
ug/g: micrograms/gram  
ppm: parts per million  
ppb: parts per billion  
org/L: organisms/liter

<: less than  
MCL: Maximum Contaminant Level  
RL: Reporting Limit  
LSPC: result less than lower specification  
USPC: result greater than upper specification  
TIE: Tentatively Identified or Estimated  
VIOL: Violation (result exceeds MCL)

#### Laboratory Contacts:

Inorganics:	Pat Sammons	404-206-5239
Metals:	Mark Tolbert	404-206-5240
Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

# QA/QC BATCH REPORT

To: Georgia Env Protection Division  
Hazardous Waste Mgmt Branch  
205 Buller St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71045  
Location Code: HWMB  
Date Collected: 7/15/2002 11:15:00 AM  
Date Received: 7/16/2002 1:40:00 PM

QA/QC Batch Name: \$8270S-50864  
Project: HW  
Sample Description: VANTRAN ELECTRIC CORP./ HW9117

Samples in Batch #: 50864

AD71045	AD71049	AD71055	AD71056
AD71059	AD71060	AD71061	AD71261
AD71262	AD71264	AD71266	AD71268
AD71269			

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S 1,1'-Biphenyl	ND										
\$8270S 1,2,4,5-Tetrachlorobenzene	ND	<660		ND							
\$8270S 1,2,4-Trichlorobenzene	ND	<660	100	85.2	59.8	35.0	85.2	81	87	7.14	81.0
\$8270S 1,2-Dichlorobenzene	ND	<660		ND							
\$8270S 1,2-Diphenylhydrazine	ND	<660		ND							
\$8270S 1,3-Dichlorobenzene	ND	<660		ND							
\$8270S 1,4-Dichlorobenzene	ND	<660	100	77.2	54.2	35.0	77.2	72	76	5.41	72.0
\$8270S 1-Chloronaphthalene	ND	<660		ND							
\$8270S 1-Naphthylamine	ND	<660		ND							
\$8270S 2,3,4,6-Tetrachlorophenol	ND	<660		ND							
\$8270S 2,4,5-Trichlorophenol	ND	<660		ND							
\$8270S 2,4,6-Tribromophenol(Surrogate QC Std.)	87	89	100	90.2	72.2			100	110	9.52	100
\$8270S 2,4,6-Trichlorophenol	ND	<660		ND							
\$8270S 2,4-Dichlorophenol	ND	<660		ND							
\$8270S 2,4-Dimethylphenol	ND	<660		ND							
\$8270S 2,4-Dinitrophenol	ND	<3300		ND							
\$8270S 2,4-Dinitrotoluene	ND	<660	100	90.9	64.1	34.6	90.9	86	92	6.74	86.0
\$8270S 2,6-Dichlorophenol	ND	<660		ND							
\$8270S 2,6-Dinitrotoluene	ND	<660		ND							
\$8270S 2-Chloronaphthalene	ND	<660		ND							
\$8270S 2-Chlorophenol	ND	<660	100	79.0	62.1	24.0	79.0	84	90	6.90	84.0
\$8270S 2-Fluorobiphenyl(Surrogate QC Std.)	84	85	100	88.5	62.5			86	92	6.74	86.0
\$8270S 2-Fluorophenol(Surrogate QC Std.)	78	81	100	77.9	63.4			89	94	5.46	89.0
\$8270S 2-Methylnaphthalene	ND	<660		ND							
\$8270S 2-Methylphenol	ND	<660		ND							
\$8270S 2-Naphthylamine	ND	<660		ND							
\$8270S 2-Nitroaniline	ND	<3300		ND							
\$8270S 2-Nitrophenol	ND	<660		ND							
\$8270S 2-Picoline	ND	<660		ND							
\$8270S 3-(4-Methoxyphenyl)-2-propenoic acid	1500 TIE										
\$8270S 3,3'-Dichlorobenzidine	ND	<1300		ND							
\$8270S 3-Methylcholanthrene	ND	<660		ND							
\$8270S 3-Nitroaniline	ND	<3300		ND							
\$8270S 4,6-Dinitro-2-methylphenol	ND	<3300		ND							

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S 4-Aminobiphenyl	ND	<660		ND							
\$8270S 4-Bromophenyl-phenylether	ND	<660		ND							
\$8270S 4-Chloro-3-methylphenol	ND	<1300	100	87.5	65.7	28.5	87.5	91	98	7.41	91.0
\$8270S 4-Chloroaniline	ND	<1300		ND							
\$8270S 4-Chlorophenyl-phenylether	ND	<660		ND							
\$8270S 4-Methylphenol	ND	<660		ND							
\$8270S 4-Nitroaniline	ND	<660		ND							
\$8270S 4-Nitrophenol	ND	<3300	100	98.0	56.3	U*54.0	98.0	76	80	5.13	76.0
\$8270S 7,12-Dimethylbenz(a)anthracene	ND	<660		ND							
\$8270S aa-dimethyl-Phenethylamine	ND	<660		ND							
\$8270S Acenaphthene	ND	<660	100	87.0	62.2	33.2	87.0	83	90	8.09	83.0
\$8270S Acenaphthylene	ND	<660		ND							
\$8270S Acetophenone	ND	<660		ND							
\$8270S Aldrin	ND	<660		ND							
\$8270S Alpha-BHC	ND	<660		ND							
\$8270S Aniline	ND	<660		ND							
\$8270S Anthracene	ND	<660		ND							
\$8270S Atrazine	ND										
\$8270S Benzaldehyde	ND										
\$8270S Benzidine	ND	<660		ND							
\$8270S Benzo[a]anthracene	ND	<660		ND							
\$8270S Benzo[a]pyrene	ND	<660		ND							
\$8270S Benzo[b]fluoranthene	ND	<660		ND							
\$8270S Benzo[g,h,i]perylene	ND	<660		ND							
\$8270S Benzo[k]fluoranthene	ND	<660		ND							
\$8270S Benzoic acid	ND	<3300		ND							
\$8270S Benzyl alcohol	ND	<1300		ND							
\$8270S Beta-BHC	ND	<660		ND							
\$8270S bis(2-Chloroethoxy)methane	ND	<660		ND							
\$8270S bis(2-Chloroethyl)ether	ND	<660		ND							
\$8270S bis(2-Chloroisopropyl)ether	ND	<660		ND							
\$8270S bis(2-Ethylhexyl)phthalate	ND	<660		ND							
\$8270S Butylbenzylphthalate	ND	<660		ND							
\$8270S Caprolactam	ND										
\$8270S Carbazole	ND										
\$8270S Chrysene	ND	<660		ND							
\$8270S Delta-BHC	ND	<660		ND							
\$8270S Dibenz(a,j)acridine	ND	<660		ND							
\$8270S Dibenz[a,h]anthracene	ND	<660		ND							
\$8270S Dibenzofuran	ND	<660		ND							

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S Dieldrin	ND	<660		ND							
\$8270S Diethylphthalate	ND	<660		ND							
\$8270S Dimethylphthalate	ND	<660		ND							
\$8270S Di-n-butylphthalate	ND	<660		ND							
\$8270S Di-n-octylphthalate	ND	<660		ND							
\$8270S Diphenylamine	ND	<660		ND							
\$8270S Endosulfan 1	ND	<3300		ND							
\$8270S Endosulfan 2	ND	<3300		ND							
\$8270S Endosulfan Sulfate	ND	<1650		ND							
\$8270S Endrin	ND	<1320		ND							
\$8270S Endrin Aldehyde	ND	<660		ND							
\$8270S Ethylmethanesulfonate	ND	<660		ND							
\$8270S Fluoranthene	ND	<660		ND							
\$8270S Fluorene	ND	<660		ND							
\$8270S Gamma-BHC	ND	<660		ND							
\$8270S Heptachlor	ND	<660		ND							
\$8270S Heptachlor Epoxide	ND	<1650		ND							
\$8270S Hexachlorobenzene	ND	<660		ND							
\$8270S Hexachlorobutadiene	ND	<660		ND							
\$8270S Hexachlorocyclopentadiene	ND	<660		ND							
\$8270S Hexachloroethane	ND	<660		ND							
\$8270S Hexadecanoic acid	1600 TIE										
\$8270S Indeno[1,2,3-cd]pyrene	ND	<660		ND							
\$8270S Isophorone	ND	<660		ND							
\$8270S Methylmethanesulfonate	ND	<660		ND							
\$8270S Naphthalene	ND	<660		ND							
\$8270S Nitrobenzene	ND	<660		ND							
\$8270S Nitrobenzene-d5(Surrogate QC Std.)	83	84	100	84.8	64.4			86	91	5.65	86.0
\$8270S n-Nitrosodimethylamine	ND	<660		ND							
\$8270S n-Nitroso-di-n-butylamine	ND	<660		ND							
\$8270S n-Nitroso-di-n-propylamine	ND	<660	100	96.4	64.4	39.8	96.4	86	92	6.74	86.0
\$8270S n-Nitrosodiphenylamine	ND	<660		ND							
\$8270S n-Nitrosopiperidine	ND	<660		ND							
\$8270S p,p'-DDD	ND	<660		ND							
\$8270S p,p'-DDE	ND	<660		ND							
\$8270S p,p'-DDT	ND	<660		ND							
\$8270S p-Dimethylaminoazobenzene	ND	<660		ND							
\$8270S Pentachlorobenzene	ND	<660		ND							
\$8270S Pentachloronitrobenzene	ND	<660		ND							
\$8270S Pentachlorophenol	ND	<3300	100	108	58.6	U*59.3	108	89	93	4.40	89.0

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S Phenacetin	ND	<660		ND							
\$8270S Phenanthrene	ND	<660		ND							
\$8270S Phenol	ND	<660	100	78.7	62.0	23.7	78.7	82	89	8.19	82.0
\$8270S Phenol-d5(Surrogate QC Std.)	84	87	100	87.7	67.5			91	97	6.38	91.0
\$8270S Pronamide	ND	<660		ND							
\$8270S Pyrene	ND	<660	100	88.8	76.9	14.4	88.8	110	120	8.70	110
\$8270S Pyridine	ND	<660		ND							
\$8270S Terphenyl-d14(Surrogate QC Std.)	100	110	100	95.5	81.3			120	130	8.00	120

Comments: \$P\_8270S - Matrix Spike had two compounds, 4-Nitrophenol (54.0% RPD, limit <40%), and Pentachlorophenol(59.3% RPD, limit <40%), with precision outside acceptable control limits due to matrix interferences. LCS results are within acceptable control limits. 7-073102-329.



# QA/QC BATCH REPORT

To: Georgia Env Protection Division  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71045  
Location Code: HWMB  
Date Collected: 7/15/2002 11:15:00 AM  
Date Received: 7/16/2002 1:40:00 PM

QA/QC Batch Name: \$8270S-50864  
Project: HW  
Sample Description: VANTRAN ELECTRIC CORP./ HW9117

Samples in Batch #: 50864

AD71045	AD71049	AD71055	AD71056
AD71059	AD71060	AD71061	AD71261
AD71262	AD71264	AD71266	AD71268
AD71269			

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S 1,1'-Biphenyl	ND										
\$8270S 1,2,4,5-Tetrachlorobenzene	ND	<660		ND							
\$8270S 1,2,4-Trichlorobenzene	ND	<660	100	85.2	59.8	35.0	85.2	81	87	7.14	81.0
\$8270S 1,2-Dichlorobenzene	ND	<660		ND							
\$8270S 1,2-Diphenylhydrazine	ND	<660		ND							
\$8270S 1,3-Dichlorobenzene	ND	<660		ND							
\$8270S 1,4-Dichlorobenzene	ND	<660	100	77.2	54.2	35.0	77.2	72	76	5.41	72.0
\$8270S 1-Chloronaphthalene	ND	<660		ND							
\$8270S 1-Naphthylamine	ND	<660		ND							
\$8270S 2,3,4,6-Tetrachlorophenol	ND	<660		ND							
\$8270S 2,4,5-Trichlorophenol	ND	<660		ND							
\$8270S 2,4,6-Tribromophenol(Surrogate QC Std.)	87	89	100	90.2	72.2			100	110	9.52	100
\$8270S 2,4,6-Trichlorophenol	ND	<660		ND							
\$8270S 2,4-Dichlorophenol	ND	<660		ND							
\$8270S 2,4-Dimethylphenol	ND	<660		ND							
\$8270S 2,4-Dinitrophenol	ND	<3300		ND							
\$8270S 2,4-Dinitrotoluene	ND	<660	100	90.9	64.1	34.6	90.9	86	92	6.74	86.0
\$8270S 2,6-Dichlorophenol	ND	<660		ND							
\$8270S 2,6-Dinitrotoluene	ND	<660		ND							
\$8270S 2-Chloronaphthalene	ND	<660		ND							
\$8270S 2-Chlorophenol	ND	<660	100	79.0	62.1	24.0	79.0	84	90	6.90	84.0
\$8270S 2-Fluorobiphenyl(Surrogate QC Std.)	84	85	100	88.5	62.5			86	92	6.74	86.0
\$8270S 2-Fluorophenol(Surrogate QC Std.)	78	81	100	77.9	63.4			89	94	5.46	89.0
\$8270S 2-Methylnaphthalene	ND	<660		ND							
\$8270S 2-Methylphenol	ND	<660		ND							
\$8270S 2-Naphthylamine	ND	<660		ND							
\$8270S 2-Nitroaniline	ND	<3300		ND							
\$8270S 2-Nitrophenol	ND	<660		ND							
\$8270S 2-Picoline	ND	<660		ND							
\$8270S 3-(4-Methoxyphenyl)-2-propenoic acid	1500 TIE										
\$8270S 3,3'-Dichlorobenzidine	ND	<1300		ND							
\$8270S 3-Methylcholanthrene	ND	<660		ND							
\$8270S 3-Nitroaniline	ND	<3300		ND							
\$8270S 4,6-Dinitro-2-methylphenol	ND	<3300		ND							

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S 4-Aminobiphenyl	ND	<660		ND							
\$8270S 4-Bromophenyl-phenylether	ND	<660		ND							
\$8270S 4-Chloro-3-methylphenol	ND	<1300	100	87.5	65.7	28.5	87.5	91	98	7.41	91.0
\$8270S 4-Chloroaniline	ND	<1300		ND							
\$8270S 4-Chlorophenyl-phenylether	ND	<660		ND							
\$8270S 4-Methylphenol	ND	<660		ND							
\$8270S 4-Nitroaniline	ND	<660		ND							
\$8270S 4-Nitrophenol	ND	<3300	100	98.0	56.3	U*54.0	98.0	76	80	5.13	76.0
\$8270S 7,12-Dimethylbenz(a)anthracene	ND	<660		ND							
\$8270S aa-dimethyl-Phenethylamine	ND	<660		ND							
\$8270S Acenaphthene	ND	<660	100	87.0	62.2	33.2	87.0	83	90	8.09	83.0
\$8270S Acenaphthylene	ND	<660		ND							
\$8270S Acetophenone	ND	<660		ND							
\$8270S Aldrin	ND	<660		ND							
\$8270S Alpha-BHC	ND	<660		ND							
\$8270S Aniline	ND	<660		ND							
\$8270S Anthracene	ND	<660		ND							
\$8270S Atrazine	ND										
\$8270S Benzaldehyde	ND										
\$8270S Benzidine	ND	<660		ND							
\$8270S Benzo[a]anthracene	ND	<660		ND							
\$8270S Benzo[a]pyrene	ND	<660		ND							
\$8270S Benzo[b]fluoranthene	ND	<660		ND							
\$8270S Benzo[g,h,i]perylene	ND	<660		ND							
\$8270S Benzo[k]fluoranthene	ND	<660		ND							
\$8270S Benzoic acid	ND	<3300		ND							
\$8270S Benzyl alcohol	ND	<1300		ND							
\$8270S Beta-BHC	ND	<660		ND							
\$8270S bis(2-Chloroethoxy)methane	ND	<660		ND							
\$8270S bis(2-Chloroethyl)ether	ND	<660		ND							
\$8270S bis(2-Chloroisopropyl)ether	ND	<660		ND							
\$8270S bis(2-Ethylhexyl)phthalate	ND	<660		ND							
\$8270S Butylbenzylphthalate	ND	<660		ND							
\$8270S Caprolactam	ND										
\$8270S Carbazole	ND										
\$8270S Chrysene	ND	<660		ND							
\$8270S Delta-BHC	ND	<660		ND							
\$8270S Dibenz(a,j)acridine	ND	<660		ND							
\$8270S Dibenz[a,h]anthracene	ND	<660		ND							
\$8270S Dibenzofuran	ND	<660		ND							

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S Dieldrin	ND	<660		ND							
\$8270S Diethylphthalate	ND	<660		ND							
\$8270S Dimethylphthalate	ND	<660		ND							
\$8270S Di-n-butylphthalate	ND	<660		ND							
\$8270S Di-n-octylphthalate	ND	<660		ND							
\$8270S Diphenylamine	ND	<660		ND							
\$8270S Endosulfan 1	ND	<3300		ND							
\$8270S Endosulfan 2	ND	<3300		ND							
\$8270S Endosulfan Sulfate	ND	<1650		ND							
\$8270S Endrin	ND	<1320		ND							
\$8270S Endrin Aldehyde	ND	<660		ND							
\$8270S Ethylmethanesulfonate	ND	<660		ND							
\$8270S Fluoranthene	ND	<660		ND							
\$8270S Fluorene	ND	<660		ND							
\$8270S Gamma-BHC	ND	<660		ND							
\$8270S Heptachlor	ND	<660		ND							
\$8270S Heptachlor Epoxide	ND	<1650		ND							
\$8270S Hexachlorobenzene	ND	<660		ND							
\$8270S Hexachlorobutadiene	ND	<660		ND							
\$8270S Hexachlorocyclopentadiene	ND	<660		ND							
\$8270S Hexachloroethane	ND	<660		ND							
\$8270S Hexadecanoic acid	1600 TIE										
\$8270S Indeno[1,2,3-cd]pyrene	ND	<660		ND							
\$8270S Isophorone	ND	<660		ND							
\$8270S Methylmethanesulfonate	ND	<660		ND							
\$8270S Naphthalene	ND	<660		ND							
\$8270S Nitrobenzene	ND	<660		ND							
\$8270S Nitrobenzene-d5(Surrogate QC Std.)	83	84	100	84.8	64.4			86	91	5.65	86.0
\$8270S n-Nitrosodimethylamine	ND	<660		ND							
\$8270S n-Nitroso-di-n-butylamine	ND	<660		ND							
\$8270S n-Nitroso-di-n-propylamine	ND	<660	100	96.4	64.4	39.8	96.4	86	92	6.74	86.0
\$8270S n-Nitrosodiphenylamine	ND	<660		ND							
\$8270S n-Nitrosopiperidine	ND	<660		ND							
\$8270S p,p'-DDD	ND	<660		ND							
\$8270S p,p'-DDE	ND	<660		ND							
\$8270S p,p'-DDT	ND	<660		ND							
\$8270S p-Dimethylaminoazobenzene	ND	<660		ND							
\$8270S Pentachlorobenzene	ND	<660		ND							
\$8270S Pentachloronitrobenzene	ND	<660		ND							
\$8270S Pentachlorophenol	ND	<3300	100	108	58.6	U*59.3	108	89	93	4.40	89.0

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S Phenacetin	ND	<660		ND							
\$8270S Phenanthrene	ND	<660		ND							
\$8270S Phenol	ND	<660	100	78.7	62.0	23.7	78.7	82	89	8.19	82.0
\$8270S Phenol-d5(Surrogate QC Std.)	84	87	100	87.7	67.5			91	97	6.38	91.0
\$8270S Pronamide	ND	<660		ND							
\$8270S Pyrene	ND	<660	100	88.8	76.9	14.4	88.8	110	120	8.70	110
\$8270S Pyridine	ND	<660		ND							
\$8270S Terphenyl-d14(Surrogate QC Std.)	100	110	100	95.5	81.3			120	130	8.00	120

Comments: \$P\_8270S - Matrix Spike had two compounds, 4-Nitrophenol (54.0% RPD, limit <40%), and Pentachlorophenol(59.3% RPD, limit <40%), with precision outside acceptable control limits due to matrix interferences. LCS results are within acceptable control limits. 7-073102-329.

# QA/QC BATCH REPORT

To: Georgia Env Protection Division  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71045

Location Code: HWMB

Date Collected: 7/15/2002 11:15:00 AM

Date Received: 7/16/2002 1:40:00 PM

QA/QC Batch Name: \$TAL\_S-50616

Project: HW

Sample Description: VANTRAN ELECTRIC CORP./ HW9117

Samples in Batch #: 50616

AD71045	AD71049	AD71055	AD71056
AD71057	AD71058	AD71059	AD71060
AD71061	AD71062	AD71261	AD71262
AD71264	AD71266	AD71268	AD71269

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$TAL_S Aluminum	11000000	<20000	100000	14000000	14000000	0.00	U*3000	106000	106000	0.00	106
\$TAL_S Antimony	ND	<6000	50000	30200	35100	15.0	L*60.4	49200	50200	2.01	98.4
\$TAL_S Arsenic	ND	<8000	50000	44900	44800	0.223	89.8	48500	47400	2.29	97.0
\$TAL_S Barium	ND	<20000	50000	69800	70600	1.14	U*140	48800	49100	0.613	97.6
\$TAL_S Beryllium	ND	<500	50000	48000	48600	1.24	96.0	48500	48500	0.00	97.0
\$TAL_S Cadmium	ND	<500	50000	47500	48100	1.26	95.0	49500	49000	1.02	99.0
\$TAL_S Calcium	ND	<500000	2500000	2470000	2500000	1.21	98.8	2310000	2310000	0.00	92.4
\$TAL_S Chromium	10000	<1000	50000	58600	59300	1.19	97.2	50200	49600	1.20	100
\$TAL_S Cobalt	ND	<5000	50000	49500	50500	2.00	99.0	49800	50200	0.800	99.6
\$TAL_S Copper	5800	<2500	50000	55600	56000	0.717	99.6	49700	49700	0.00	99.4
\$TAL_S Iron	5100000	<10000	100000	4930000	4980000	1.01	L*0.0	101000	101000	0.00	101
\$TAL_S Lead	ND	<9000	50000	56500	56400	0.177	113	49000	48700	0.614	98.0
\$TAL_S Magnesium	ND	<500000	2500000	2840000	2870000	1.05	114	2580000	2590000	0.387	103
\$TAL_S Manganese	48000	<1500	50000	94800	95700	0.945	93.6	49600	49600	0.00	99.2
\$TAL_S Nickel	4100	<4000	50000	53400	53300	0.187	98.6	48600	49100	1.02	97.2
\$TAL_S Potassium	ND	<500000	2500000	2700000	2740000	1.47	108	2510000	2540000	1.19	100
\$TAL_S Selenium	ND	<19000	50000	42000	37100	12.4	84.0	54900	54800	0.182	110
\$TAL_S Silver	ND	<1000	10000	9590	9470	1.26	95.9	9770	9790	0.204	97.7
\$TAL_S Sodium	ND	<500000	2500000	2480000	2510000	1.20	99.2	2520000	2540000	0.791	101
\$TAL_S Thallium	ND	<20000	50000	ND	ND	ND	ND	45400	49300	8.24	90.8
\$TAL_S Vanadium	15000	<5000	50000	64000	64800	1.24	98.0	50300	50200	0.199	101
\$TAL_S Zinc	21000	<2000	50000	67200	67700	0.741	92.4	53900	54300	0.739	108

Comments: \$R\_TAL\_S: ICP Metals - Matrix Spike had two analytes, Aluminum ( 3000% recovery, limits 70-130%),and Iron (0.0% recovery, limits 70-130%),with a percent recovery outside acceptable control limits due to high concentration of target analytes in sample. Matrix spike had two analytes, Barium (140% recovery, limits 70-130%), and Antimony (60.4% recovery, limits 70-130%), with a percent recovery outside acceptable control limits due to matrix interference. 2-072302-196.

Comments: \$TAL\_S: ICP Metals - Reporting limits raised due to elevated levels of target analytes in sample. 'D' Flag: Dilution of sample analyzed on 07/24/02.

# QA/QC BATCH REPORT

To: Georgia Env Protection Division  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71056

Location Code: HWMB

Date Collected: 7/15/2002 2:15:00 PM

Date Received: 7/16/2002 1:40:00 PM

QA/QC Batch Name: \$8260S-50925

Project: HW

Sample Description: VANTRAN ELECTRIC CORP./ HW9120

Samples in Batch #: 50925

AD71055	AD71056	AD71049
---------	---------	---------

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$8260S 1,1,1,2-Tetrachloroethane	ND	<5						52			
\$8260S 1,1,1-Trichloroethane	ND	<5						52			
\$8260S 1,1,2,2-Tetrachloroethane	ND	<5						51			
\$8260S 1,1,2-Trichloroethane	ND	<5						52			
\$8260S 1,1,2-Trichlorotrifluoroethane	ND										
\$8260S 1,1-Dichloroethane	ND	<5						51			
\$8260S 1,1-Dichloroethene	ND	<5	50	53	35	U*40.9	110	54	50	7.69	110
\$8260S 1,1-Dichloropropene	ND	<5						53			
\$8260S 1,2,3-Trichlorobenzene	ND	<5						51			
\$8260S 1,2,3-Trichloropropane	ND	<5						52			
\$8260S 1,2,4-Trichlorobenzene	ND	<5						53			
\$8260S 1,2,4-Trimethylbenzene	ND	<5						53			
\$8260S 1,2-Dibromo-3-chloropropane	ND	<5						51			
\$8260S 1,2-Dibromoethane	ND	<5						51			
\$8260S 1,2-Dichlorobenzene	ND	<5						52			
\$8260S 1,2-Dichloroethane	ND	<5						52			
\$8260S 1,2-Dichloroethane-d4(Surrogate QC Std.)	59	52	50	58	56			49	49		
\$8260S 1,2-Dichloropropane	ND	<5						52			
\$8260S 1,3,5-Trimethylbenzene	ND	<5						54			
\$8260S 1,3-Dichlorobenzene	ND	<5						54			
\$8260S 1,3-Dichloropropane	ND	<5						52			
\$8260S 1,4-Dichlorobenzene	ND	<5						55			
\$8260S 2,2-Dichloropropane	ND	<5						52			
\$8260S 2-Butanone	ND	<100						48			
\$8260S 2-Chlorotoluene	ND	<5						53			
\$8260S 2-Hexanone	ND	<50						53			
\$8260S 4-Chlorotoluene	ND	<5						55			
\$8260S 4-Methyl-2-Pentanone	ND	<50						48			
\$8260S Acetone	ND	<100						50			
\$8260S Benzene	ND	<5	50	53	36	38.2	110	52	49	5.94	100
\$8260S Bromobenzene	ND	<5						52			
\$8260S Bromochloromethane	ND	<5						52			
\$8260S Bromodichloromethane	ND	<5						52			
\$8260S Bromofluorobenzene(Surrogate QC Std.)	39	51	50	39	39			50	51		
\$8260S Bromoform	ND	<5						51			

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$8260S Bromomethane	ND	<10						43			
\$8260S Carbon Disulfide	ND	<5						51			
\$8260S Carbon Tetrachloride	ND	<5						52			
\$8260S Chlorobenzene	ND	<5	50	42	27	U*43.5	84	52	47	10.1	100
\$8260S Chloroethane	ND	<10						50			
\$8260S Chloroform	ND	<5						52			
\$8260S Chloromethane	ND	<10						41			
\$8260S cis-1,2-Dichloroethene	ND	<5						52			
\$8260S cis-1,3-Dichloropropene	ND	<5						52			
\$8260S Cyclohexane	ND										
\$8260S Dibromochloromethane	ND	<5						52			
\$8260S Dibromofluoromethane(Surrogate QC Std.)	60	53	50	61	57			50	50		
\$8260S Dibromomethane	ND	<5						51			
\$8260S Dichlorodifluoromethane	ND	<5						49			
\$8260S Ethylbenzene	ND	<5						53			
\$8260S Hexachlorobutadiene	ND	<5						54			
\$8260S Iodomethane	ND	<5						50			
\$8260S Isopropylbenzene	ND	<5						54			
\$8260S Methyl acetate	ND										
\$8260S Methyl tert-butyl ether	ND										
\$8260S Methylcyclohexane	ND										
\$8260S Methylene Chloride	ND	<5						52			
\$8260S Naphthalene	ND	<5						45			
\$8260S n-Butylbenzene	ND	<5						54			
\$8260S n-Propylbenzene	ND	<5						54			
\$8260S o-Xylene	ND	<5						53			
\$8260S p,m-Xylene	ND	<10						110			
\$8260S p-Isopropyltoluene	ND	<5						55			
\$8260S sec-Butylbenzene	ND	<5						54			
\$8260S Styrene	ND	<5						54			
\$8260S tert-Butylbenzene	ND	<5						55			
\$8260S Tetrachloroethene	ND	<5						53			
\$8260S Toluene	Trace	<5	50	39	27	36.4	78	53	48	9.90	110
\$8260S Toluene-d8(Surrogate QC Std.)	42	50	50	42	43			50	50		
\$8260S Total Aldehydes	35 TIE										
\$8260S Total Hydrocarbons	68 TIE										
\$8260S trans-1,2-Dichloroethene	ND	<5						53			
\$8260S trans-1,3-Dichloropropene	ND	<5						52			
\$8260S Trichloroethene	ND	<5	50	38	27	33.8	76	52	46	12.2	100
\$8260S Trichlorofluoromethane	ND	<5						53			

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$8260S Vinyl Acetate	ND	<50						U*62			
\$8260S Vinyl Chloride	ND	<2						50			

Comments: \$8260S- Sample had two surrogate compounds, Dibromofluoromethane (121% recovery, limits 80-117%), and 1,2-Dichloroethane-d4 (119% recovery, limits 78-118%) with recoveries outside acceptable control limits. One internal standard compound, 1,4-Dichlorobenzene-d4 (30% response, limits 50-200%) with response outside acceptable control limits due to matrix interferences. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-080502-332.

Comments: \$P\_8260S - Matrix Spike had two compounds, 1,1-Dichloroethene (40.9% RPD, limit <40%), and Chlorobenzene (43.5% RPD, limits <40%) with precisions outside acceptable control limits due to matrix interferences. LCS results were within acceptable control limits. 7-080502-332.



# QA/QC BATCH REPORT

To: Georgia Env Protection Division  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71062  
Location Code: HWMB  
Date Collected: 7/15/2002 3:00:00 PM  
Date Received: 7/16/2002 1:40:00 PM

QA/QC Batch Name: \$8260S-50679  
Project: HW  
Sample Description: VANTRAN ELECTRIC CORP./ HW9134

Samples in Batch #: 50679

AD71045	AD71057	AD71058	AD71059
AD71060	AD71061	AD71062	

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$8260S 1,1,1,2-Tetrachloroethane	ND	<5						53			
\$8260S 1,1,1-Trichloroethane	ND	<5						53			
\$8260S 1,1,2,2-Tetrachloroethane	ND	<5						51			
\$8260S 1,1,2-Trichloroethane	ND	<5						51			
\$8260S 1,1,2-Trichlorotrifluoroethane	ND										
\$8260S 1,1-Dichloroethane	ND	<5						52			
\$8260S 1,1-Dichloroethene	ND	<5	50	53	53		110	58	54	7.14	120
\$8260S 1,1-Dichloropropene	ND	<5						54			
\$8260S 1,2,3-Trichlorobenzene	ND	<5						57			
\$8260S 1,2,3-Trichloropropane	ND	<5						51			
\$8260S 1,2,4-Trichlorobenzene	ND	<5						60			
\$8260S 1,2,4-Trimethylbenzene	ND	<5						57			
\$8260S 1,2-Dibromo-3-chloropropane	ND	<5						49			
\$8260S 1,2-Dibromoethane	ND	<5						51			
\$8260S 1,2-Dichlorobenzene	ND	<5						55			
\$8260S 1,2-Dichloroethane	ND	<5						54			
\$8260S 1,2-Dichloroethane-d4(Surrogate QC Std.)	52	51	50	50	51			50	50		
\$8260S 1,2-Dichloropropane	ND	<5						52			
\$8260S 1,3,5-Trimethylbenzene	ND	<5						58			
\$8260S 1,3-Dichlorobenzene	ND	<5						56			
\$8260S 1,3-Dichloropropane	ND	<5						52			
\$8260S 1,4-Dichlorobenzene	ND	<5						59			
\$8260S 2,2-Dichloropropane	ND	<5						55			
\$8260S 2-Butanone	ND	<100						52			
\$8260S 2-Chlorotoluene	ND	<5						55			
\$8260S 2-Hexanone	ND	<50						48			
\$8260S 4-Chlorotoluene	ND	<5						58			
\$8260S 4-Methyl-2-Pentanone	ND	<50						47			
\$8260S Acetone	ND	<100						52			
\$8260S Benzene	ND	<5	50	52	51	1.94	100	52	51	1.94	100
\$8260S Bromobenzene	ND	<5						54			
\$8260S Bromochloromethane	ND	<5						53			
\$8260S Bromodichloromethane	ND	<5						52			
\$8260S Bromofluorobenzene(Surrogate QC Std.)	49	49	50	48	47			49	50		
\$8260S Bromoform	ND	<5						51			

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$8260S Bromomethane	ND	<10						50			
\$8260S Carbon Disulfide	ND	<5						59			
\$8260S Carbon Tetrachloride	ND	<5						54			
\$8260S Chlorobenzene	ND	<5	50	48	50	4.08	96	54	48	11.8	110
\$8260S Chloroethane	ND	<10						55			
\$8260S Chloroform	ND	<5						52			
\$8260S Chloromethane	ND	<10						52			
\$8260S cis-1,2-Dichloroethene	ND	<5						53			
\$8260S cis-1,3-Dichloropropene	ND	<5						53			
\$8260S Cyclohexane	ND										
\$8260S Dibromochloromethane	ND	<5						51			
\$8260S Dibromofluoromethane(Surrogate QC Std.)	55	53	50	53	53			50	51		
\$8260S Dibromomethane	ND	<5						52			
\$8260S Dichlorodifluoromethane	ND	<5						53			
\$8260S Ethylbenzene	ND	<5						56			
\$8260S Hexachlorobutadiene	ND	<5						57			
\$8260S Iodomethane	ND	<5						56			
\$8260S Isopropylbenzene	ND	<5						56			
\$8260S Methyl acetate	ND										
\$8260S Methyl tert-butyl ether	ND										
\$8260S Methylcyclohexane	ND										
\$8260S Methylene Chloride	ND	<5						53			
\$8260S Naphthalene	ND	<5						55			
\$8260S n-Butylbenzene	ND	<5						60			
\$8260S n-Propylbenzene	ND	<5						57			
\$8260S o-Xylene	ND	<5						55			
\$8260S p,m-Xylene	ND	<10						110			
\$8260S p-Isopropyltoluene	ND	<5						59			
\$8260S sec-Butylbenzene	ND	<5						57			
\$8260S Styrene	ND	<5						57			
\$8260S tert-Butylbenzene	ND	<5						57			
\$8260S Tetrachloroethene	ND	<5						55			
\$8260S Toluene	ND	<5	50	49	50	2.02	98	54	49	9.71	110
\$8260S Toluene-d8(Surrogate QC Std.)	50	50	50	50	50			50	50		
\$8260S trans-1,2-Dichloroethene	ND	<5						55			
\$8260S trans-1,3-Dichloropropene	ND	<5						53			
\$8260S Trichloroethene	ND	<5	50	47	50	6.19	94	53	47	12.0	110
\$8260S Trichlorofluoromethane	ND	<5						53			
\$8260S Vinyl Acetate	ND	<50						U*83			
\$8260S Vinyl Chloride	ND	<2						54			

# QA/QC BATCH REPORT

Analysis/Analyte	Result	Method Blank	Amount Spiked	MS Result	MS Dup Result	MS Dup Precision	MS Recovery	LCS Result	LCS Dup Result	LCS Dup Precision	LCS Recovery
	ug/kg (dw)	ug/kg (dw)	ug/kg (dw)	ug/kg (dw)	ug/kg (dw)	RPD	%	ug/kg (dw)	ug/kg (dw)	RPD	%

# QA/QC BATCH REPORT

To: Georgia Env Protection Divison  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71045

Location Code: HWMB

Date Collected: 7/15/2002 11:15:00 AM

Date Received: 7/16/2002 1:40:00 PM

QA/QC Batch Name: CNTALS-50520

Project: HW

Sample Description: VANTRAN ELECTRIC CORP./ HW9117

Samples in Batch #: 50520

AD71045	AD71049	AD71055	AD71056
AD71057	AD71058	AD71059	AD71060
AD71061	AD71062	AD71261	AD71262
AD71264	AD71266	AD71268	AD71269

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
CNTALS	ND	<9000	20000	20500	20400	0.489	102	20200	20200	0.000	101

# QA/QC BATCH REPORT

To: Georgia Env Protection Divison  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71045

Location Code: HWMB

Date Collected: 7/15/2002 11:15:00 AM

Date Received: 7/16/2002 1:40:00 PM

QA/QC Batch Name: HGTALS-50621

Project: HW

Sample Description: VANTRAN ELECTRIC CORP./ HW9117

Samples in Batch #: 50621

AD71045	AD71049	AD71055	AD71056
AD71057	AD71058	AD71059	AD71060
AD71061	AD71062		

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision ug/kg (dw)	MS Recovery %	LCS Result %	LCS Dup Result ug/kg (dw)	LCS Dup Precision ug/kg (dw)	LCS Recovery %
HGTALS	ND	<100	600	620	615	0.810	103	623	610	2.11	104

# QA/QC BATCH REPORT

To: Georgia Env Protection Division  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71045

Location Code: HWMB

Date Collected: 7/15/2002 11:15:00 AM

Date Received: 7/16/2002 1:40:00 PM

QA/QC Batch Name: \$8082S-50515

Project: HW

Sample Description: VANTRAN ELECTRIC CORP./ HW9117

Samples in Batch #: 50515

AD71045	AD71049	AD71055	AD71056
AD71057	AD71058	AD71059	AD71060
AD71061	AD71062	AD71261	AD71262
AD71264	AD71266	AD71268	AD71269

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$8082S DCBP surr std	37.4	40.3	40	30.8	32.0			36.4	36.1		91.0
\$8082S PCB-1016	ND	<33	500	410	374	9.18	82.0	421	387	8.42	84.2
\$8082S PCB-1221	ND	<33	ND	ND	ND	ND	ND	ND	ND	ND	ND
\$8082S PCB-1232	ND	<33	ND	ND	ND	ND	ND	ND	ND	ND	ND
\$8082S PCB-1242	ND	<33	ND	ND	ND	ND	ND	ND	ND	ND	ND
\$8082S PCB-1248	ND	<33	ND	ND	ND	ND	ND	ND	ND	ND	ND
\$8082S PCB-1254	ND	<33	ND	ND	ND	ND	ND	ND	ND	ND	ND
\$8082S PCB-1260	1400	<33	500	1640	1830	11.0	L*48.0	478	452	5.59	95.6
\$8082S PCB-1262	ND	<33	ND	ND	ND	ND	ND	ND	ND	ND	ND
\$8082S TCMX surr std	14.1	13.2	20	13.2	13.7			14.1	13.3		70.5

Comments: \$8082S - Reporting Limits elevated for PCB 1260 due to high levels of target and/or non-target compounds.  
\$8082S - "D" - Sample analyzed for these compounds on 8/3/02 with all QC in compliance.

Comments: \$R\_8082S - Matrix Spike had one compound PCB 1260 (48.0% recovery, limits 50 - 150%), with a percent recovery outside of acceptable limits due to matrix interferences. LCS/LCSD results were within acceptable control limits. 1-081402-580

# QA/QC BATCH REPORT

To: Georgia Env Protection Division  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71261

Location Code: HWMB

Date Collected: 7/16/2002 10:15:00 AM

Date Received: 7/17/2002 12:31:00 PM

QA/QC Batch Name: \$8260S-50678

Project: HW

Sample Description: VANTRAN ELECTRIC CORP/HW9124

Samples in Batch #: 50678

AD71261	AD71262	AD71264	AD71266
AD71268	AD71269		

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$8260S 1,1,1,2-Tetrachloroethane	ND	<5						51			
\$8260S 1,1,1-Trichloroethane	ND	<5						52			
\$8260S 1,1,2,2-Tetrachloroethane	ND	<5						52			
\$8260S 1,1,2-Trichloroethane	ND	<5						51			
\$8260S 1,1,2-Trichlorotrifluoroethane	ND										
\$8260S 1,1-Dichloroethane	ND	<5						52			
\$8260S 1,1-Dichloroethene	ND	<5	50	83	48	U*53.4	U*170	53	52	1.90	110
\$8260S 1,1-Dichloropropene	ND	<5						54			
\$8260S 1,2,3-Trichlorobenzene	ND	<5						52			
\$8260S 1,2,3-Trichloropropane	ND	<5						54			
\$8260S 1,2,4-Trichlorobenzene	ND	<5						52			
\$8260S 1,2,4-Trimethylbenzene	ND	<5						54			
\$8260S 1,2-Dibromo-3-chloropropane	ND	<5						51			
\$8260S 1,2-Dibromoethane	ND	<5						50			
\$8260S 1,2-Dichlorobenzene	ND	<5						50			
\$8260S 1,2-Dichloroethane	ND	<5						55			
\$8260S 1,2-Dichloroethane-d4(Surrogate QC Std.)	45	48	50	67	46			50	48		
\$8260S 1,2-Dichloropropane	ND	<5						52			
\$8260S 1,3,5-Trimethylbenzene	ND	<5						53			
\$8260S 1,3-Dichlorobenzene	ND	<5						53			
\$8260S 1,3-Dichloropropane	ND	<5						52			
\$8260S 1,4-Dichlorobenzene	ND	<5						52			
\$8260S 1-Limonene	73 TIE										
\$8260S 2,2-Dichloropropane	ND	<5						55			
\$8260S 2-Butanone	ND	<100						58			
\$8260S 2-Chlorotoluene	ND	<5						53			
\$8260S 2-Hexanone	ND	<50						53			
\$8260S 4-Chlorotoluene	ND	<5						53			
\$8260S 4-Methyl-2-Pentanone	ND	<50						53			
\$8260S Acetone	ND	<100						59			
\$8260S alpha-Pipene	360 TIE										
\$8260S alpha-Terpineol	14 TIE										
\$8260S Benzene	ND	<5	50	74	45	U*48.7	U*150	53	49	7.84	110
\$8260S Bromobenzene	ND	<5						50			
\$8260S Bromochloromethane	ND	<5						52			

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$8260S Bromodichloromethane	ND	<5						52			
\$8260S Bromofluorobenzene(Surrogate QC Std.)	44	49	50	44	45			51	50		
\$8260S Bromoform	ND	<5						51			
\$8260S Bromomethane	ND	<10						48			
\$8260S Camphene	30 TIE										
\$8260S Carbon Disulfide	ND	<5						56			
\$8260S Carbon Tetrachloride	ND	<5						53			
\$8260S Chlorobenzene	ND	<5	50	44	33	28.6	88	52	50	3.92	100
\$8260S Chloroethane	ND	<10						51			
\$8260S Chloroform	ND	<5						52			
\$8260S Chloromethane	ND	<10						51			
\$8260S cis-1,2-Dichloroethene	ND	<5						50			
\$8260S cis-1,3-Dichloropropene	ND	<5						51			
\$8260S Cyclohexane	ND										
\$8260S Dibromochloromethane	ND	<5						51			
\$8260S Dibromofluoromethane(Surrogate QC Std.)	50	50	50	42	50			51	49		
\$8260S Dibromomethane	ND	<5						52			
\$8260S Dichlorodifluoromethane	ND	<5						51			
\$8260S Ethylbenzene	ND	<5						53			
\$8260S Fenchol	7.3 TIE										
\$8260S Hexachlorobutadiene	ND	<5						52			
\$8260S Hexanal	41 TIE										
\$8260S Iodomethane	ND	<5						43			
\$8260S Isopropylbenzene	ND	<5						52			
\$8260S Methyl acetate	ND										
\$8260S Methyl tert-butyl ether	ND										
\$8260S Methylcyclohexane	ND										
\$8260S Methylene Chloride	ND	<5						53			
\$8260S Naphthalene	ND	<5						51			
\$8260S n-Butylbenzene	ND	<5						53			
\$8260S n-Propylbenzene	ND	<5						51			
\$8260S o-Xylene	ND	<5						53			
\$8260S p,m-Xylene	ND	<10						110			
\$8260S p-Isopropyltoluene	ND	<5						53			
\$8260S sec-Butylbenzene	ND	<5						54			
\$8260S Styrene	ND	<5						53			
\$8260S Terpinolene	22 TIE										
\$8260S tert-Butylbenzene	ND	<5						54			
\$8260S Tetrachloroethene	ND	<5						50			
\$8260S Toluene	ND	<5	50	45	36	22.2	90	51	50	1.98	100



# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$8260S Toluene-d8(Surrogate QC Std.)	47	50	50	48	48			50	49		
\$8260S trans-1,2-Dichloroethene	ND	<5						54			
\$8260S trans-1,3-Dichloropropene	ND	<5						52			
\$8260S Trichloroethene	ND	<5	50	47	37	23.8	94	52	50	3.92	100
\$8260S Trichlorofluoromethane	ND	<5						51			
\$8260S Tricyclene	6.2 TIE										
\$8260S Vinyl Acetate	ND	<50						58			
\$8260S Vinyl Chloride	ND	<2						52			

Comments: \$P\_8260S - Matrix Spike had two compounds, 1,1-Dichloroethene (54% RPD, limit <40%), and Benzene (49% RPD, limit <40%) with precisions outside acceptable control limits due to matrix interferences. LCS results were within acceptable control limits. 7-073102-328.

Comments: \$R\_8260S- Matrix spike had two compounds, 1,1-Dichloroethene (166% recovery, limits 20-162%) and Benzene (147% recovery, limits 39-140%) with recoveries outside acceptable control limits due to matrix interferences. LCS results were within acceptable control limits. 7-073102-328.

Comments: \$8260S- Matrix spike had one surrogate compound, 1,2-Dichloroethane-d4 (134% recovery, limits 78-118%) with recovery outside acceptable control limits due to matrix interferences. LCS results were within acceptable control limits. 7-073102-328.

# QA/QC BATCH REPORT

To: Georgia Env Protection Division  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71261

Location Code: HWMB

Date Collected: 7/16/2002 10:15:00 AM

Date Received: 7/17/2002 12:31:00 PM

QA/QC Batch Name: HGTALS-50675

Project: HW

Sample Description: VANTRAN ELECTRIC CORP/HW9124

Samples in Batch #: 50675

AD71261	AD71262	AD71264	AD71266
AD71268	AD71269		

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision ug/kg (dw)	MS Recovery %	LCS Result %	LCS Dup Result ug/kg (dw)	LCS Dup Precision ug/kg (dw)	LCS Recovery %
HGTALS	ND.	<100	600	608	609	0.164	101	595	588	1.18	99.2

# QA/QC BATCH REPORT

To: Georgia Env Protection Divison  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71057  
Location Code: HWMB  
Date Collected: 7/15/2002 1:45:00 PM  
Date Received: 7/16/2002 1:40:00 PM

QA/QC Batch Name: \$8270S-50936

Project: HW

Samples in Batch #: 50936

AD71057	AD71058	AD71062
---------	---------	---------

Sample Description: VANTRAN ELECTRIC CORP./ HW9121

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result	MS Dup Result	MS Dup Precision	MS Recovery	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S 1,1'-Biphenyl	ND										
\$8270S 1,2,4,5-Tetrachlorobenzene	ND	<660									
\$8270S 1,2,4-Trichlorobenzene	ND	<660	100					73	76	4.03	73.0
\$8270S 1,2-Dichlorobenzene	ND	<660									
\$8270S 1,2-Diphenylhydrazine	ND	<660									
\$8270S 1,3-Dichlorobenzene	ND	<660									
\$8270S 1,4-Dichlorobenzene	ND	<660	100					63	67	6.15	63.0
\$8270S 1-Chloronaphthalene	ND	<660									
\$8270S 1-Naphthylamine	ND	<660									
\$8270S 2,3,4,6-Tetrachlorophenol	ND	<660									
\$8270S 2,4,5-Trichlorophenol	ND	<660									
\$8270S 2,4,6-Tribromophenol(Surrogate QC Std.)	110	88	100					87	90	3.39	87.0
\$8270S 2,4,6-Trichlorophenol	ND	<660									
\$8270S 2,4-Dichlorophenol	ND	<660									
\$8270S 2,4-Dimethylphenol	ND	<660									
\$8270S 2,4-Dinitrophenol	ND	<3300									
\$8270S 2,4-Dinitrotoluene	ND	<660	100					77	82	6.29	77.0
\$8270S 2,6-Dichlorophenol	ND	<660									
\$8270S 2,6-Dinitrotoluene	ND	<660									
\$8270S 2-Chloronaphthalene	ND	<660									
\$8270S 2-Chlorophenol	ND	<660	100					71	76	6.80	71.0
\$8270S 2-Fluorobiphenyl(Surrogate QC Std.)	87	82	100					79	83	4.94	79.0
\$8270S 2-Fluorophenol(Surrogate QC Std.)	76	76	100					71	76	6.80	71.0
\$8270S 2-Methylnaphthalene	ND	<660									
\$8270S 2-Methylphenol	ND	<660									
\$8270S 2-Naphthylamine	ND	<660									
\$8270S 2-Nitroaniline	ND	<3300									
\$8270S 2-Nitrophenol	ND	<660									
\$8270S 2-Picoline	ND	<660									
\$8270S 3,3'-Dichlorobenzidine	ND	<1300									
\$8270S 3,5,7-Trihydroxy-2-4H-1-benzopyran-4-one	3000 TIE										
\$8270S 3-Methylcholanthrene	ND	<660									
\$8270S 3-Nitroaniline	ND	<3300									
\$8270S 4,6-Dinitro-2-methylphenol	ND	<3300									
\$8270S 4-Aminobiphenyl	ND	<660									

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result	MS Dup Result	MS Dup Precision	MS Recovery	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S 4-Bromophenyl-phenylether	ND	<660									
\$8270S 4-Chloro-3-methylphenol	ND	<1300	100					80	82	2.47	80.0
\$8270S 4-Chloroaniline	ND	<1300									
\$8270S 4-Chlorophenyl-phenylether	ND	<660									
\$8270S 4-Methylphenol	ND	<660									
\$8270S 4-Nitroaniline	ND	<660									
\$8270S 4-Nitrophenol	ND	<3300	100					74	83	11.5	74.0
\$8270S 7,12-Dimethylbenz(a)anthracene	ND	<660									
\$8270S aa-dimethyl-Phenethylamine	ND	<660									
\$8270S Acenaphthene	ND	<660	100					75	79	5.19	75.0
\$8270S Acenaphthylene	ND	<660									
\$8270S Acetophenone	ND	<660									
\$8270S Aldrin	ND	<660									
\$8270S Alpha-BHC	ND	<660									
\$8270S Aniline	ND	<660									
\$8270S Anthracene	ND	<660									
\$8270S Atrazine	ND										
\$8270S Benzaldehyde	ND										
\$8270S Benzidine	ND	<660									
\$8270S Benzo[a]anthracene	ND	<660									
\$8270S Benzo[a]pyrene	ND	<660									
\$8270S Benzo[b]fluoranthene	ND	<660									
\$8270S Benzo[g,h,i]perylene	ND	<660									
\$8270S Benzo[k]fluoranthene	ND	<660									
\$8270S Benzoic acid	Not Analyzed	<3300									
\$8270S Benzyl alcohol	ND	<1300									
\$8270S Beta-BHC	ND	<660									
\$8270S bis(2-Chloroethoxy)methane	ND	<660									
\$8270S bis(2-Chloroethyl)ether	ND	<660									
\$8270S bis(2-Chloroisopropyl)ether	ND	<660									
\$8270S bis(2-Ethylhexyl)phthalate	ND	<660									
\$8270S Butylbenzylphthalate	ND	<660									
\$8270S Caprolactam	ND										
\$8270S Carbazole	ND										
\$8270S Chrysene	ND	<660									
\$8270S Delta-BHC	ND	<660									
\$8270S Dibenz(a,j)acridine	ND	<660									
\$8270S Dibenz[a,h]anthracene	ND	<660									
\$8270S Dibenzofuran	ND	<660									
\$8270S Dieldrin	ND	<660									

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result	MS Dup Result	MS Dup Precision	MS Recovery	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S Diethylphthalate	ND	<660									
\$8270S Dimethylphthalate	ND	<660									
\$8270S Di-n-butylphthalate	ND	<660									
\$8270S Di-n-octylphthalate	ND	<660									
\$8270S Diphenylamine	ND	<660									
\$8270S Endosulfan 1	ND	<3300									
\$8270S Endosulfan 2	ND	<3300									
\$8270S Endosulfan Sulfate	ND	<1650									
\$8270S Endrin	ND	<1320									
\$8270S Endrin Aldehyde	ND	<660									
\$8270S Ethylmethanesulfonate	ND	<660									
\$8270S Fluoranthene	ND	<660									
\$8270S Fluorene	ND	<660									
\$8270S Gamma-BHC	ND	<660									
\$8270S Heptachlor	ND	<660									
\$8270S Heptachlor Epoxide	ND	<1650									
\$8270S Hexachlorobenzene	ND	<660									
\$8270S Hexachlorobutadiene	ND	<660									
\$8270S Hexachlorocyclopentadiene	ND	<660									
\$8270S Hexachloroethane	ND	<660									
\$8270S Indeno[1,2,3-cd]pyrene	ND	<660									
\$8270S Isophorone	ND	<660									
\$8270S Methylmethanesulfonate	ND	<660									
\$8270S Naphthalene	ND	<660									
\$8270S Nitrobenzene	ND	<660									
\$8270S Nitrobenzene-d5(Surrogate QC Std.)	81	79	100					74	77	3.97	74.0
\$8270S n-Nitrosodimethylamine	ND	<660									
\$8270S n-Nitroso-di-n-butylamine	ND	<660									
\$8270S n-Nitroso-di-n-propylamine	ND	<660	100					72	78	8.00	72.0
\$8270S n-Nitrosodiphenylamine	ND	<660									
\$8270S n-Nitrosopiperidine	ND	<660									
\$8270S p,p'-DDD	ND	<660									
\$8270S p,p'-DDE	ND	<660									
\$8270S p,p'-DDT	ND	<660									
\$8270S p-Dimethylaminoazobenzene	ND	<660									
\$8270S Pentachlorobenzene	ND	<660									
\$8270S Pentachloronitrobenzene	ND	<660									
\$8270S Pentachlorophenol	ND	<3300	100					71	75	5.48	71.0
\$8270S Phenacetin	ND	<660									
\$8270S Phenanthrene	ND	<660									

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg (dw)	MS Result	MS Dup Result	MS Dup Precision	MS Recovery	LCS Result ug/kg	LCS Dup Result ug/kg	LCS Dup Precision RPD	LCS Recovery %
\$8270S Phenol	ND	<660	100					69	74	6.99	69.0
\$8270S Phenol-d5(Surrogate QC Std.)	80	80	100					76	81	6.37	76.0
\$8270S Pronamide	ND	<660									
\$8270S Pyrene	ND	<660	100					95	90	5.41	95.0
\$8270S Pyridine	ND	<660									
\$8270S Terphenyl-d14(Surrogate QC Std.)	110	100	100					97	95	2.08	97.0

Comments: \$8270S - "Not analyzed" Sample not analyzed for Benzoic Acid. No valid curve for this compound. 7-080602-337

Comments: \$S\_8270S - No MS/MSD extracted with the batch. 7-080602-337

# QA/QC BATCH REPORT

To: Georgia Env Protection Divison  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71045

Location Code: HWMB

Date Collected: 7/15/2002 11:15:00 AM

Date Received: 7/16/2002 1:40:00 PM

QA/QC Batch Name: \$8081S-50514

Project: HW

Sample Description: VANTRAN ELECTRIC CORP./ HW9117

Samples in Batch #: 50514

AD71045	AD71049	AD71055	AD71056
AD71057	AD71058	AD71059	AD71060
AD71061	AD71062	AD71261	AD71262
AD71264	AD71266	AD71268	AD71269

Analysis/Analyte	Result ug/kg (dw)	Method Blank ug/kg (dw)	Amount Spiked ug/kg	MS Result ug/kg (dw)	MS Dup Result ug/kg (dw)	MS Dup Precision RPD	MS Recovery %	LCS Result ug/kg (dw)	LCS Dup Result ug/kg (dw)	LCS Dup Precision RPD	LCS Recovery %
\$8081S 4,4-DDD	ND	<7.5		ND	ND			ND	ND		
\$8081S 4,4-DDE	ND	<3.0		ND	ND			ND	ND		
\$8081S 4,4-DDT	ND	<6.5		ND	ND			ND	ND		
\$8081S a-BHC	ND	<2.0		ND	ND			ND	ND		
\$8081S ALDRIN	ND	<3.5		ND	ND			ND	ND		
\$8081S alpha-CHLORDANE	ND	<5.0		ND	ND			ND	ND		
\$8081S b-BHC	ND	<3.0		ND	ND			ND	ND		
\$8081S CHLORDANE	ND	<50	500	327	345	5.36	65.4	368	350	5.01	73.6
\$8081S CHLORPYRIFOS (DURSBAN)	ND	<5.0		ND	ND			ND	ND		
\$8081S d-BHC	ND	<4.5		ND	ND			ND	ND		
\$8081S DCB surr std	37.4	44.2	40	31.7	32.9			34.2	35.1	2.60	85.5
\$8081S DIELDRIN	ND	<2.0		ND	ND			ND	ND		
\$8081S ENDOSULFAN I	ND	<5.0		ND	ND			ND	ND		
\$8081S ENDOSULFAN II	ND	<7.5		ND	ND			ND	ND		
\$8081S ENDOSULFAN SULFATE	ND	<8.0		ND	ND			ND	ND		
\$8081S ENDRIN	ND	<7.5		ND	ND			ND	ND		
\$8081S ENDRIN ALDEHYDE	ND	<3.5		ND	ND			ND	ND		
\$8081S gamma-CHLORDANE	ND	<5.0		ND	ND			ND	ND		
\$8081S HEPTACHLOR	ND	<5.0		ND	ND			ND	ND		
\$8081S HEPTACHLOR EPOXIDE	ND	<4.0		ND	ND			ND	ND		
\$8081S HEXACHLOROBENZENE	ND	<1.0		ND	ND			ND	ND		
\$8081S LINDANE (g-BHC)	ND	<1.0		ND	ND			ND	ND		
\$8081S METHOXYCHLOR	ND	<20		ND	ND			ND	ND		
\$8081S MIREX	ND	<3.5		ND	ND			ND	ND		
\$8081S TCMX surr std	15.7	16.2	20	12.3	13.3			14.0	13.9	0.717	70.0
\$8081S TOXAPHENE	ND	<130		ND	ND			ND	ND		

Comments: \$8081S - "D1" Sample analyzed on 8/10/02 for this compound with all QC in compliance.  
\$8081S - "D2" Sample analyzed on 8/13/02 for these compounds with all QC in compliance.

# QA/QC BATCH REPORT

To: Georgia Env Protection Divison  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71307

Location Code: HWMB

Date Collected: 7/16/2002 10:10:00 AM

Date Received: 7/17/2002 12:31:00 PM

QA/QC Batch Name: \$8270W-50648

Project: HW

Sample Description: VANTRAN ELECTRIC CORP/HW9132

Samples in Batch #: 50648

AD71213	AD71216	AD71227	AD71306
AD71307	AD71309		

Analysis/Analyte	Result ug/L	Method Blank ug/L	Amount Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MS Dup Precision RPD	MS Recovery %	LCS Result ug/L	LCS Dup Result ug/L	LCS Dup Precision RPD	LCS Recovery %
\$8270W 1,1'-Biphenyl	ND										
\$8270W 1,2,4,5-Tetrachlorobenzene	ND	<10		ND	ND	ND					
\$8270W 1,2,4-Trichlorobenzene	ND	<10	100	52.1	62.0	17.4	52.1	44.8	46	2.64	44.8
\$8270W 1,2-Dichlorobenzene	ND	<10		ND	ND	ND					
\$8270W 1,2-Diphenylhydrazine	ND	<10		ND	ND	ND					
\$8270W 1,3-Dichlorobenzene	ND	<10		ND	ND	ND					
\$8270W 1,4-Dichlorobenzene	ND	<10	100	49.5	56.8	13.7	49.5	40.4	42	3.88	40.4
\$8270W 1-Chloronaphthalene	ND	<10		ND	ND	ND					
\$8270W 1-Naphthylamine	ND	<10		ND	ND	ND					
\$8270W 2,3,4,6-Tetrachlorophenol	ND	<10		ND	ND	ND					
\$8270W 2,4,5-Trichlorophenol	ND	<10		ND	ND	ND					
\$8270W 2,4,6-Tribromophenol(Surrogate QC Std.)	58	67	100	86.6	72.4			72.6	73	0.549	72.6
\$8270W 2,4,6-Trichlorophenol	ND	<10		ND	ND	ND					
\$8270W 2,4-Dichlorophenol	ND	<10		ND	ND	ND					
\$8270W 2,4-Dimethylphenol	ND	<10		ND	ND	ND					
\$8270W 2,4-Dinitrophenol	ND	<50		ND	ND	ND					
\$8270W 2,4-Dinitrotoluene	ND	<10	100	64.1	72.4	12.2	64.1	62.1	63	1.44	62.1
\$8270W 2,6-Dichlorophenol	ND	<10		ND	ND	ND					
\$8270W 2,6-Dinitrotoluene	ND	<10		ND	ND	ND					
\$8270W 2-Chloronaphthalene	ND	<10		ND	ND	ND					
\$8270W 2-Chlorophenol	ND	<10	100	54.1	62.9	15.0	54.1	51.4	53	3.07	51.4
\$8270W 2-Fluorobiphenyl(Surrogate QC Std.)	52	53	100	62.7	66.2			50.0	51	1.98	50.0
\$8270W 2-Fluorophenol(Surrogate QC Std.)	30	35	100	40.0	38.7			33.5	34	1.48	33.5
\$8270W 2-Methylnaphthalene	ND	<10		ND	ND	ND					
\$8270W 2-Methylphenol	ND	<10		ND	ND	ND					
\$8270W 2-Naphthylamine	ND	<10		ND	ND	ND					
\$8270W 2-Nitroaniline	ND	<50		ND	ND	ND					
\$8270W 2-Nitrophenol	ND	<10		ND	ND	ND					
\$8270W 2-Picoline	ND	<10		ND	ND	ND					
\$8270W 3,3'-Dichlorobenzidine	ND	<20		ND	ND	ND					
\$8270W 3-Methylcholanthrene	ND	<10		ND	ND	ND					
\$8270W 3-Nitroaniline	ND	<50		ND	ND	ND					
\$8270W 4,6-Dinitro-2-methylphenol	ND	<50		ND	ND	ND					
\$8270W 4-Aminobiphenyl	ND	<20		ND	ND	ND					
\$8270W 4-Bromophenyl-phenylether	ND	<10		ND	ND	ND					



# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/L	Method Blank ug/L	Amount Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MS Dup Precision RPD	MS Recovery %	LCS Result ug/L	LCS Dup Result ug/L	LCS Dup Precision RPD	LCS Recovery %
\$8270W 4-Chloro-3-methylphenol	ND	<20	100	64.4	70.0	8.33	64.4	61.4	63	2.57	61.4
\$8270W 4-Chloroaniline	ND	<20		ND	ND	ND					
\$8270W 4-Chlorophenyl-phenylether	ND	<10		ND	ND	ND					
\$8270W 4-Methylphenol	ND	<10		ND	ND	ND					
\$8270W 4-Nitroaniline	ND	<20		ND	ND	ND					
\$8270W 4-Nitrophenol	ND	<50	100	26.7	27.7	3.68	26.7	24.6	24	2.47	24.6
\$8270W 7,12-Dimethylbenz(a)anthracene	ND	<10		ND	ND	ND					
\$8270W aa-dimethyl-Phenethylamine	ND	<10		ND	ND	ND					
\$8270W Acenaphthene	ND	<10	100	56.0	69.9	22.1	56.0	54.2	55	1.47	54.2
\$8270W Acenaphthylene	ND	<10		ND	ND	ND					
\$8270W Acetophenone	ND	<10		ND	ND	ND					
\$8270W Aldrin	ND	<10		ND	ND	ND					
\$8270W Alpha-BHC	ND	<10		ND	ND	ND					
\$8270W Aniline	ND	<10		ND	ND	ND					
\$8270W Anthracene	ND	<10		ND	ND	ND					
\$8270W Atrazine	ND										
\$8270W Benzaldehyde	ND										
\$8270W Benzidine	ND	<10		ND	ND	ND					
\$8270W Benzo[a]anthracene	ND	<10		ND	ND	ND					
\$8270W Benzo[a]pyrene	ND	<10		ND	ND	ND					
\$8270W Benzo[b]fluoranthene	ND	<10		ND	ND	ND					
\$8270W Benzo[g,h,i]perylene	ND	<10		ND	ND	ND					
\$8270W Benzo[k]fluoranthene	ND	<10		ND	ND	ND					
\$8270W Benzoic acid	Not Analyzed	Not Analyzed		ND	ND	ND					
\$8270W Benzyl alcohol	ND	<20		ND	ND	ND					
\$8270W Beta-BHC	ND	<10		ND	ND	ND					
\$8270W bis(2-Chloroethoxy)methane	ND	<10		ND	ND	ND					
\$8270W bis(2-Chloroethyl)ether	ND	<10		ND	ND	ND					
\$8270W bis(2-Chloroisopropyl)ether	ND	<10		ND	ND	ND					
\$8270W bis(2-Ethylhexyl)phthalate	ND	<10		ND	ND	ND					
\$8270W Butylbenzylphthalate	ND	<10		ND	ND	ND					
\$8270W Caprolactam	ND										
\$8270W Carbazole	ND										
\$8270W Chrysene	ND	<10		ND	ND	ND					
\$8270W Delta-BHC	ND	<10		ND	ND	ND					
\$8270W Dibenz(a,j)acridine	ND	<10		ND	ND	ND					
\$8270W Dibenz[a,h]anthracene	ND	<10		ND	ND	ND					
\$8270W Dibenzofuran	ND	<10		ND	ND	ND					
\$8270W Dieldrin	ND	<10		ND	ND	ND					
\$8270W Diethylphthalate	ND	<10		ND	ND	ND					

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/L	Method Blank ug/L	Amount Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MS Dup Precision RPD	MS Recovery %	LCS Result ug/L	LCS Dup Result ug/L	LCS Dup Precision RPD	LCS Recovery %
\$8270W Dimethylphthalate	ND	<10		ND	ND	ND					
\$8270W Di-n-butylphthalate	ND	<10		ND	ND	ND					
\$8270W Di-n-octylphthalate	ND	<10		ND	ND	ND					
\$8270W Diphenylamine	ND	<10		ND	ND	ND					
\$8270W Endosulfan 1	ND	<50		ND	ND	ND					
\$8270W Endosulfan 2	ND	<50		ND	ND	ND					
\$8270W Endosulfan Sulfate	ND	<25		ND	ND	ND					
\$8270W Endrin	ND	<20		ND	ND	ND					
\$8270W Endrin Aldehyde	ND	<10		ND	ND	ND					
\$8270W Ethylmethanesulfonate	ND	<20		ND	ND	ND					
\$8270W Fluoranthene	ND	<10		ND	ND	ND					
\$8270W Fluorene	ND	<10		ND	ND	ND					
\$8270W Gamma-BHC	ND	<10		ND	ND	ND					
\$8270W Heptachlor	ND	<10		ND	ND	ND					
\$8270W Heptachlor Epoxide	ND	<25		ND	ND	ND					
\$8270W Hexachlorobenzene	ND	<10		ND	ND	ND					
\$8270W Hexachlorobutadiene	ND	<10		ND	ND	ND					
\$8270W Hexachlorocyclopentadiene	ND	<10		ND	ND	ND					
\$8270W Hexachloroethane	ND	<10		ND	ND	ND					
\$8270W Indeno[1,2,3-cd]pyrene	ND	<10		ND	ND	ND					
\$8270W Isophorone	ND	<10		ND	ND	ND					
\$8270W Methylmethanesulfonate	ND	<10		ND	ND	ND					
\$8270W Naphthalene	ND	<10		ND	ND	ND					
\$8270W Nitrobenzene	ND	<10		ND	ND	ND					
\$8270W Nitrobenzene-d5(Surrogate QC Std.)	59	61	100	69.4	70.2			54.2	56	3.27	54.2
\$8270W n-Nitrosodimethylamine	ND	<10		ND	ND	ND					
\$8270W n-Nitroso-di-n-butylamine	ND	<10		ND	ND	ND					
\$8270W n-Nitroso-di-n-propylamine	ND	<10	100	57.9	72.6	22.5	57.9	54.9	57	3.75	54.9
\$8270W n-Nitrosodiphenylamine	ND	<10		ND	ND	ND					
\$8270W n-Nitrosopiperidine	ND	<20		ND	ND	ND					
\$8270W p,p'-DDD	ND	<10		ND	ND	ND					
\$8270W p,p'-DDE	ND	<10		ND	ND	ND					
\$8270W p,p'-DDT	ND	<10		ND	ND	ND					
\$8270W p-Dimethylaminoazobenzene	ND	<10		ND	ND	ND					
\$8270W Pentachlorobenzene	ND	<10		ND	ND	ND					
\$8270W Pentachloronitrobenzene	ND	<20		ND	ND	ND					
\$8270W Pentachlorophenol	ND	<50	100	67.5	71.9	6.31	67.5	63.7	62	2.70	63.7
\$8270W Phenacetin	ND	<20		ND	ND	ND					
\$8270W Phenanthrene	ND	<10		ND	ND	ND					
\$8270W Phenol	ND	<10	100	21.1	24.8	16.1	21.1	20.8	21	0.957	20.8

# QA/QC BATCH REPORT

Analysis/Analyte	Result ug/L	Method Blank ug/L	Amount Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MS Dup Precision RPD	MS Recovery %	LCS Result ug/L	LCS Dup Result ug/L	LCS Dup Precision RPD	LCS Recovery %
\$8270W Phenol-d5(Surrogate QC Std.)	20	21	100	25.4	25.1			21.4	22	2.76	21.4
\$8270W Pronamide	ND	<10		ND	ND	ND					
\$8270W Pyrene	ND	<10	100	87.8	98.0	11.0	87.8	92.9	94	1.18	92.9
\$8270W Pyridine	ND	<10		ND	ND	ND					
\$8270W Terphenyl-d14(Surrogate QC Std.)	45	87	100	69.5	59.6			91.9	93	1.19	91.9

Comments: \$8270W - "Not Analyzed" - Sample not analyzed for this compound. No valid 5 point curve due to lack of response in the 10 ppm standard. 7-072502-316

# QA/QC BATCH REPORT

To: Georgia Env Protection Divison  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71309

Location Code: HWMB

Date Collected: 7/16/2002 11:15:00 AM

Date Received: 7/17/2002 12:31:00 PM

QA/QC Batch Name: \$8082H-50513

Project: HW

Sample Description: VANTRAN ELECTRIC CORP/HW9133

Samples in Batch #: 50513

AD71306	AD71307	AD71309
---------	---------	---------

Analysis/Analyte	Result ug/L	Method Blank ug/L	Amount Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MS Dup Precision RPD	MS Recovery %	LCS Result ug/L	LCS Dup Result ug/L	LCS Dup Precision RPD	LCS Recovery %
\$8082H DCB surr std	0.723	0.858	0.80	0.773	0.734			0.839	0.809		105
\$8082H PCB-1016	ND	<1.0	10	9.83	9.45	3.94	98.3	10.5	10.4	0.957	105
\$8082H PCB-1221	ND	<1.0									
\$8082H PCB-1232	ND	<1.0									
\$8082H PCB-1242	ND	<1.0									
\$8082H PCB-1248	ND	<1.0									
\$8082H PCB-1254	ND	<1.0									
\$8082H PCB-1260	ND	<1.0	10	10.5	10.1	3.88	105	10.9	10.5	3.74	109
\$8082H PCB-1262	ND	<1.0									
\$8082H TCMX surr std	0.415	0.383	0.40	0.347	0.333			0.293	0.298		73.2

# QA/QC BATCH REPORT

To: Georgia Env Protection Division  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71306

Location Code: HWMB

Date Collected: 7/16/2002 11:45:00 AM

Date Received: 7/17/2002 12:31:00 PM

QA/QC Batch Name: \$8081H-50512

Project: HW

Sample Description: VANTRAN ELECTRIC CORP/HW9131

Samples in Batch #: 50512

AD71306	AD71307	AD71309
---------	---------	---------

Analysis/Analyte	Result ug/L	Method Blank ug/L	Amount Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MS Dup Precision RPD	MS Recovery %	LCS Result ug/L	LCS Dup Result ug/L	LCS Dup Precision RPD	LCS Recovery %
\$8081H 4,4-DDD	ND	<0.10	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H 4,4-DDE	ND	<0.05	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H 4,4-DDT	ND	<0.06	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H a-BHC	ND	<0.05	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H ALDRIN	ND	<0.05	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H alpha-CHLORDANE	ND	<0.10	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H b-BHC	ND	<0.06	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H CHLORDANE	ND	<2.0	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H CHLORPYRIFOS (DURSBAN)	ND	<0.10	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H d-BHC	ND	<0.15	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H DCB surr std	0.550	0.858	0.80	0.625	0.547			L*0.365	L*0.457		L*45.6
\$8081H DIELDRIN	ND	<0.05	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H ENDOSULFAN I	ND	<0.10	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H ENDOSULFAN II	ND	<0.10	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H ENDOSULFAN SULFATE	ND	<0.10	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H ENDRIN	ND	<0.10	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H ENDRIN ALDEHYDE	ND	<0.10	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H gamma-CHLORDANE	ND	<0.10	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H HEPTACHLOR	ND	<0.05	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H HEPTACHLOR EPOXIDE	ND	<0.05	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H HEXACHLOROBENZENE	ND	<0.05	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H LINDANE (g-BHC)	ND	<0.05	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H METHOXYCHLOR	ND	<0.20	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H MIREX	ND	<0.30	ND	ND	ND		ND	ND	ND	ND	ND
\$8081H TCMX surr std	0.385	0.383	0.40	0.376	0.340			0.347	0.330		86.8
\$8081H TOXAPHENE	ND	<3.0	10	8.21	7.24	12.6	82.1	8.33	8.38	0.598	83.3

Comments: \$8081H - "D" These compounds analyzed on 8/1/02 with all QC in compliance.

# QA/QC BATCH REPORT

To: Georgia Env Protection Divison  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71306

Location Code: HWMB

Date Collected: 7/16/2002 11:45:00 AM

Date Received: 7/17/2002 12:31:00 PM

QA/QC Batch Name: HG7470-50620

Project: HW

Sample Description: VANTRAN ELECTRIC CORP/HW9131

Samples in Batch #: 50620

AD71306	AD71307	AD71309
---------	---------	---------

Analysis/Analyte	Result ug/L	Method Blank ug/L	Amount Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MS Dup Precision % RSD	MS Recovery %	LCS Result ug/L	LCS Dup Result ug/L	LCS Dup Precision RPD	LCS Recovery %
HG7470	ND	<0.2	3.00	3.31	3.25	1.83	109	3.18	3.18	0.00	106

# QA/QC BATCH REPORT

To: Georgia Env Protection Division  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71307

Location Code: HWMB

Date Collected: 7/16/2002 10:10:00 AM

Date Received: 7/17/2002 12:31:00 PM

QA/QC Batch Name: \$TAL\_L-50662

Project: HW

Sample Description: VANTRAN ELECTRIC CORP/HW9132

Samples in Batch #: 50662

AD71306	AD71307	AD71309
---------	---------	---------

Analysis/Analyte	Result ug/L	Method Blank ug/L	Amount Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MS Dup Precision RPD	MS Recovery %	LCS Result ug/L	LCS Dup Result ug/L	LCS Dup Precision RPD	LCS Recovery %
\$TAL_L Aluminum	790	<200	1000	1554	1582	1.79	76.4	963	974	1.14	96.3
\$TAL_L Calcium	11000	<5000	25000	33110	33900	2.36	88.4	23720	23990	1.13	94.9
\$TAL_L Iron	6900	<100	1000	7200	7347	2.02	L*30.0	998	1004	0.599	99.8
\$TAL_L Magnesium	ND	<5000	25000	27200	27710	1.86	109	26030	26240	0.804	104
\$TAL_L Manganese	860	<15	500	1296	1322	1.99	87.2	501	505	0.795	100
\$TAL_L Potassium	ND	<5000	25000	25950	26210	0.997	104	25380	25500	0.472	102
\$TAL_L Sodium	5300	<5000	25000	29930	30350	1.39	98.5	25080	25210	0.517	100

Comments: \$R\_TAL\_L: ICP Metals - Matrix Spike had one analyte, Iron (30% recovery, limits 70-130%), with a percent recovery outside acceptable control limits due to high concentration of target analytes in sample. 2-072602-204.

# QA/QC BATCH REPORT

To: Georgia Env Protection Divison  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71306

Location Code: HWMB

Date Collected: 7/16/2002 11:45:00 AM

Date Received: 7/17/2002 12:31:00 PM

QA/QC Batch Name: \$IMSTL-50637

Project: HW

Sample Description: VANTRAN ELECTRIC CORP/HW9131

Samples in Batch #: 50637

AD71306	AD71307	AD71309
---------	---------	---------

Analysis/Analyte	Result ug/L	Method Blank ug/L	Amount Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MS Dup Precision RPD	MS Recovery %	LCS Result ug/L	LCS Dup Result ug/L	LCS Dup Precision RPD	LCS Recovery %
\$IMSTL Antimony 121	ND	<60	500	551	564	2.33	110	554	560	1.08	111
\$IMSTL Arsenic 75	ND	<10	500	470	462	1.72	94.0	454	460	1.31	90.8
\$IMSTL Barium 137	ND	<200	500	495	492	0.608	99.0	453	459	1.32	90.6
\$IMSTL Beryllium 9	ND	<5	500	488	489	0.205	97.6	474	475	0.211	94.8
\$IMSTL Cadmium 111	ND	<5	500	558	556	0.359	112	555	552	0.542	111
\$IMSTL Chromium 52	ND	<10	500	445	448	0.672	89.0	433	447	3.18	86.6
\$IMSTL Cobalt 59	ND	<50	500	521	524	0.574	104	505	514	1.77	101
\$IMSTL Copper 65	ND	<25	500	554	559	0.898	111	557	560	0.537	111
\$IMSTL Lead 207	ND	<3	500	540	543	0.554	108	552	555	0.542	110
\$IMSTL Nickel 60	ND	<40	500	461	463	0.433	92.2	450	458	1.76	90.0
\$IMSTL Selenium 82	ND	<5	2500	2320	2290	1.30	92.8	2270	2290	0.877	90.8
\$IMSTL Silver 107	ND	<10	100	112	113	0.889	112	113	112	0.889	113
\$IMSTL Thallium 205	ND	<10	500	545	543	0.368	109	556	548	1.45	111
\$IMSTL Vanadium 51	ND	<50	500	445	448	0.672	89.0	433	447	3.18	86.6
\$IMSTL Zinc 68	ND	<20	500	539	539	0.00	108	530	536	1.13	106



# QA/QC BATCH REPORT

To: Georgia Env Protection Divison  
Hazardous Waste Mgmt Branch  
205 Butler St SE Suite 1154E  
Atlanta, GA 30334

Sample ID: AD71306

Location Code: HWMB

Date Collected: 7/16/2002 11:45:00 AM

Date Received: 7/17/2002 12:31:00 PM

QA/QC Batch Name: CNTAL-50519

Project: HW

Sample Description: VANTRAN ELECTRIC CORP/HW9131

Samples in Batch #: 50519

AD71306	AD71307	AD71309
---------	---------	---------

Analysis/Analyte	Result ug/L	Method Blank ug/L	Amount Spiked ug/L	MS Result ug/L	MS Dup Result ug/L	MS Dup Precision RPD	MS Recovery %	LCS Result ug/L	LCS Dup Result ug/L	LCS Dup Precision RPD	LCS Recovery %
CNTAL	ND	<25	400	412	412	0.000	103	400	406	1.49	100

# APPENDIX M

U . S . E P A R E G I O N I V

# SDMS

## Unscannable Material Target Sheet

DocID: 10583837 Site ID: GAD051041424

Site Name: Vantras Electric

### Nature of Material:

Map:                     

Computer Disks:                     

Photos:                     

CD-ROM:                     

Blueprints:                     

Oversized Report:                     

Slides:                     

Log Book:                     

Other (describe): Wetlands Inventory Maps

Amount of material:                     

**\*Please contact the appropriate Records Center to view the material.\***

# SITE INSPECTION WORKSHEETS

CERCLIS IDENTIFICATION NUMBER

GAD 051 041 424

SITE LOCATION			
SITE NAME: LEGAL, COMMON, OR DESCRIPTIVE NAME OF SITE <i>VANTRAN ELECTRIC CORPORATION</i>			
STREET ADDRESS, ROUTE, OR SPECIFIC LOCATION IDENTIFIER <i>1600 GEORGIA HIGHWAY 17</i>			
CITY <i>LOUISVILLE</i>	STATE <i>GA</i>	ZIP CODE <i>30434</i>	TELEPHONE (   )
COORDINATES: LATITUDE and LONGITUDE <i>N32°59'28.3"/W 82°23'10.0"</i>		TOWNSHIP, RANGE, AND SECTION <i>CITY OF LOUISVILLE</i>	

OWNER/OPERATOR IDENTIFICATION					
OWNER <i>VANTRAN INDUSTRIES, INC.</i>			OPERATOR <i>SAME</i>		
OWNER ADDRESS <i>7711 IMPERIAL DRIVE</i>			OPERATOR ADDRESS		
CITY <i>WACO</i>			CITY		
STATE <i>TX.</i>	ZIP CODE <i>76702</i>	TELEPHONE <i>(254) 772-9740</i>	STATE	ZIP CODE	TELEPHONE (   )

SITE EVALUATION		
AGENCY/ORGANIZATION <i>GA. DEPT. OF NATURAL RESOURCES/ENVIRONMENTAL PROTECTION DIV.</i>		
INVESTIGATOR <i>ANDREW S. TAFT</i>		
CONTACT <i>ANDREW S. TAFT</i>		
ADDRESS <i>2 MARTIN LUTHER KING, JR. DRIVE, SUITE 1154</i>		
CITY <i>ATLANTA</i>	STATE <i>GA.</i>	ZIP CODE <i>30334</i>
TELEPHONE <i>(404) 656-2833</i>		

## GENERAL INFORMATION

**Site Description and Operational History:** Provide a brief description of the site and its operational history. State the site name, owner, operator, type of facility and operations, size of property, active or inactive status, and years of waste generation. Summarize waste treatment, storage, or disposal activities that have or may have occurred at the site; note whether these activities are documented or alleged. Identify all source types and prior spills, floods, or fires. Summarize highlights of the PA and other investigations. Cite references.

*See Attached Brief Site Description and Operational History*

## Brief Site Description and Operational History

The inactive 11.362 acre site is located at 1600 Ga. Hwy. 17 in Louisville, Ga. (Ref. 3 & 5). Designated Tax Parcel No. 91-55, the site is bounded to the north by Ga. Hwy. 17, bounded to the east by Airport Rd. and bounded to the south and west by undeveloped mostly wooded property. The dominant site feature is the original rectangular single story bldg. measuring 161 feet by 226 feet. Other than the bldg. and associated paved areas, the remainder of the site consists of undeveloped open field/lawn and a wooded area (Ref. 3).

Two above ground storage tanks (of approx. 12,850 and 5,870 gal. capacity) labeled "mineral oil" are located east of the bldg. (Ref. 3). Four above ground storage tanks (of approx. 250 gal. capacity each) labeled "mineral oil" are located inside the bldg. During the June 2002 on-site reconnaissance stained soil and stressed vegetation were observed in a graveled area behind the bldg., immediately adjacent to a metal shed, adjacent to the 2 above ground storage tanks, near the SE corner of the bldg., immediately east and down-gradient of concrete paving behind the bldg. and along an elongated area just W of Airport Rd near the northeast corner of the site. A slight topographic ridge bisects the site (Refs. 3, 4 & 12).

Sometime before 1970, the bldg. was constructed as a spec bldg. on city property as a means to promote business (Refs. 3 & 13). Purchased in 1970 by Vantran Electric Corporation of Waco, Texas, transformers were manufactured and/or refurbished on-site until 1996. Transformers containing PCBs were manufactured on-site from approximately 1971 until 1973 (Ref. 14). Manufacturing processes included the winding of cores and coils, baking and annealing, welding, painting and assembly (Refs. 11 & 13). Alkyd enamel paint and toluene and/or xylene based thinners were used to paint transformers inside a painting booth centrally located within the bldg. (Refs 3 & 11). The manufacturing of transformers ceased in 1973, however, transformers were repaired and/or refurbished on-site until the plant closed sometime in 1996 (Refs. 13 & 14).

Analytical results of 2 soil samples collected by the USEPA in July of 1981 confirmed the presence of total PCBs in on-site soil at concentrations of 340 mg/kg and 660 mg/kg (Refs. 15 - 17). During the associated inspection, the USEPA documented that sediment and filtration media recovered from a transformer oil reclamation process were shipped to the county landfill, contaminated water and sediment generated from an oil reclamation process were routinely drained to the ground surface from a bulk reclamation tank located behind the bldg., contaminated water and sediment drained to the ground surface flowed down a hill and off-site to a constructed drainage ditch on adjacent property formerly occupied by a sawmill, an approx. 20 yard by 50 yard area behind the bldg. was observed saturated with oil, and waste transformer oil had been applied on-site to the ground surface as a means to control dust (Ref. 18).

The Georgia EPD inspected the site in May of 1983, at which time, a site representative refused to allow the collection of any samples (Refs. 14 & 22). During the inspection, the Georgia EPD documented that 2 above ground storage tanks (of approx. 1,500 and 3,000 gal. capacity) located behind the bldg. were being used to contain used transformer oil as part of a reclamation process, stained soil, stressed vegetation and open/leaking transformers on the ground surface were observed behind the bldg. where approx. 2,000 used transformers were stored, the used transformers had not been tested for PCBs, each of the transformers contained from 2 to 3 gal. of transformer oil, waste transformer oil had been applied to the ground surface to control dust, a French Drain was installed at a "transformer wash down area," however, the drain did not leave the site, and visible soil discoloration was traced from the wash down area to a low area exiting the site (Ref. 14).

Analytical results of 10 soil samples collected by the USEPA in Feb. of 1984 confirmed the presence of total PCBs in on-site soil at concentrations ranging from 5.9 mg/kg to 130 mg/kg (Refs. 21 & 25).

The Georgia EPD conducted a PA at the site in 1987, at which time, it was recommended that the site be assessed a "None" priority for an SI (Ref. 27). Although the CERCLIS indicated that an SI was completed at the site in 1984, an error in the database is suspected by the USEPA (Refs. 26 & 28). The USEPA determined that an SI was warranted at the site in Jan. of 2002 (Ref. 28). At the time of the June 2002 on-site reconnaissance, the on-site bldg. was being leased by Vantran (for use as a warehouse) to Glit, Inc. of Wrens, Georgia and Thermo King Corporation of Louisville, Georgia (Ref. 3).

## GENERAL INFORMATION (continued)

**Site Sketch:** Provide a sketch of the site. Indicate all pertinent features of the site and nearby environments including sources of wastes, areas of visible and buried wastes, buildings, residences, access roads, parking areas, fences, fields, drainage patterns, water bodies, vegetation, wells, sensitive environments, and other features.

*See Attached Figure 2: Site Sketch and Figure 3: Site Topography*

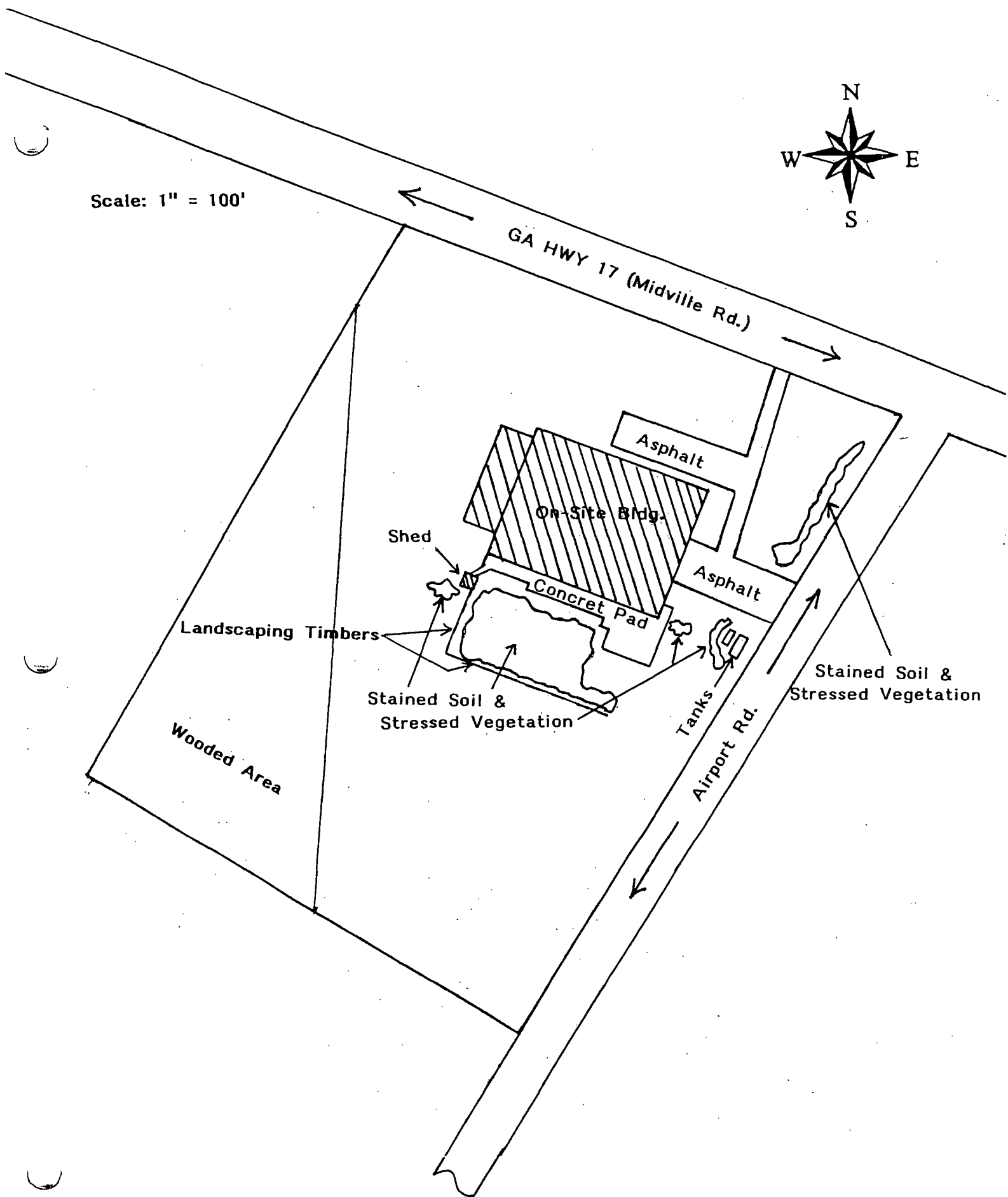


FIGURE 2: Site Sketch (Refs. 3 & 5)



Scale: 1" = 100'

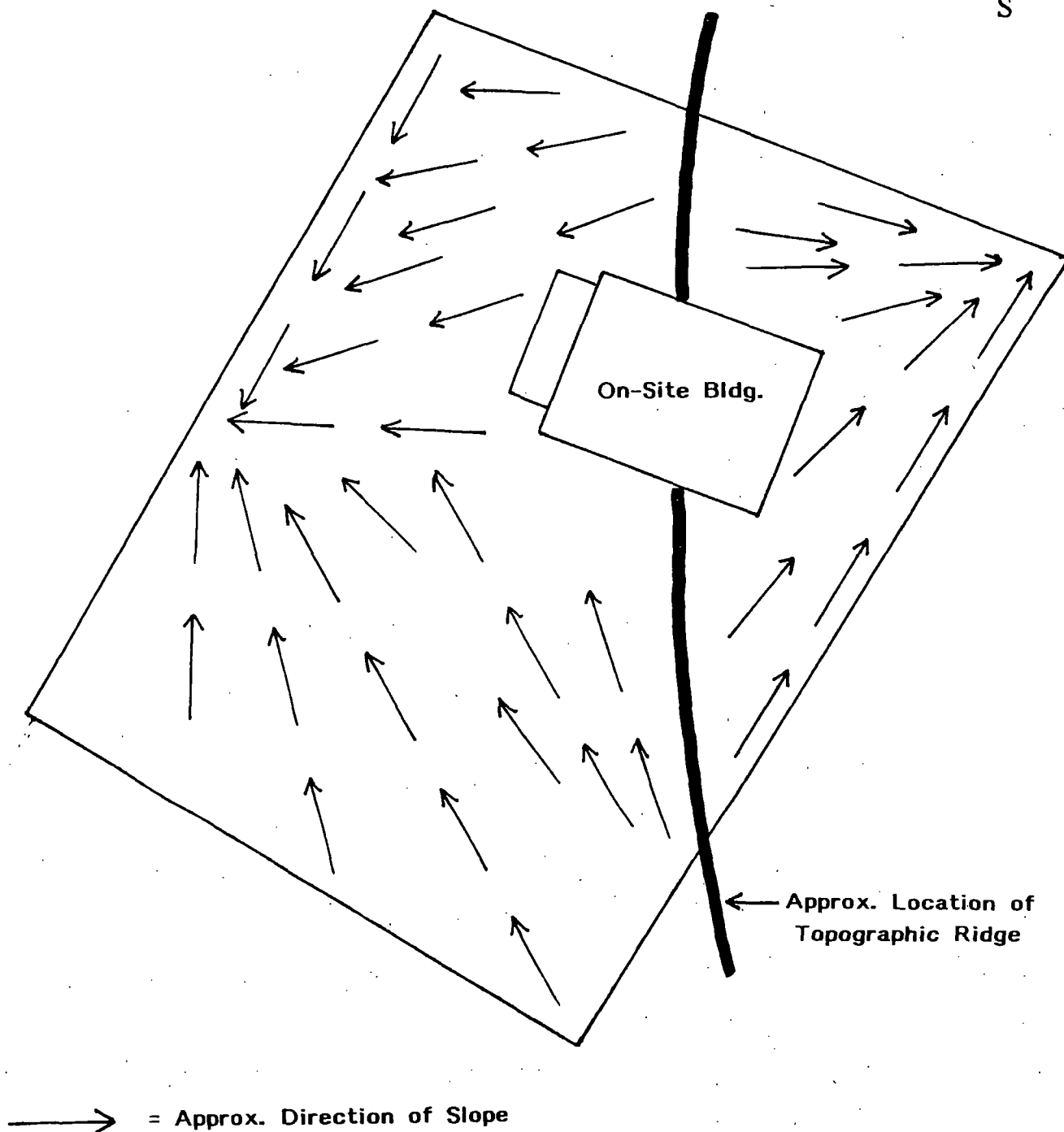
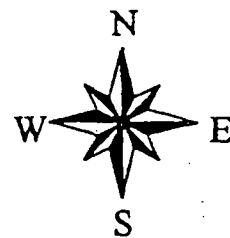


FIGURE 3: Site Topography (Refs. 3, 5 & 12)

## GENERAL INFORMATION (continued)

**Source Descriptions:** Describe all sources at the site. Identify source type and relate to waste disposal operations. Provide source dimensions and the best available waste quantity information. Describe the condition of sources and all containment structures. Cite references.

### SOURCE TYPES

**Landfill:** A man-made (by excavation or construction) or natural hole in the ground into which wastes have come to be disposed by backfilling, or by contemporaneous soil deposition with waste disposal.

**Surface Impoundment:** A natural topographic depression, man-made excavation, or diked area, primarily formed from earthen materials (lined or unlined) and designed to hold an accumulation of liquid wastes, wastes containing free liquids, or sludges not backfilled or otherwise covered; depression may be wet with exposed liquid or dry if deposited liquid has evaporated, volatilized or leached; structures that may be described as lagoon, pond, aeration pit, settling pond, tailings pond, sludge pit; also a surface impoundment that has been covered with soil after the final deposition of waste materials (i.e., buried or backfilled).

**Drum:** A portable container designed to hold a standard 55-gallon volume of wastes.

**Tank and Non-Drum Container:** Any device, other than a drum, designed to contain an accumulation of waste that provides structural support and is constructed primarily of fabricated materials (such as wood, concrete, steel, or plastic); any portable or mobile device in which waste is stored or otherwise handled.

**Contaminated Soil:** An area or volume of soil onto which hazardous substances have been spilled, spread, disposed, or deposited.

**Pile:** Any non-containerized accumulation above the ground surface of solid, non-flowing wastes; includes open dumps. Some types of waste piles are:

- **Chemical Waste Pile:** A pile consisting primarily of discarded chemical products, by-products, radioactive wastes, or used or unused feedstocks.
- **Scrap Metal or Junk Pile:** A pile consisting primarily of scrap metal or discarded durable goods (such as appliances, automobiles, auto parts, batteries, etc.) composed of materials containing hazardous substances.
- **Tailings Pile:** A pile consisting primarily of any combination of overburden from a mining operation and tailings from a mineral mining, beneficiation, or processing operation.
- **Trash Pile:** A pile consisting primarily of paper, garbage, or discarded non-durable goods containing hazardous substances.

**Land Treatment:** Landfarming or other method of waste management in which liquid wastes or sludges are spread over land and tilled, or liquids are injected at shallow depths into soils.

**Other:** Sources not in categories listed above.

## GENERAL INFORMATION (continued)

**Source Description:** Include description of containment per pathway for ground water (see HRS Table 3-2), surface water (see HRS Table 4-2), and air (see HRS Tables 6-3 and 6-9).

**See attached table for source descriptions. For the purposes of this SI, all sources were assigned a containment factor of 10 for the groundwater, surface water and air pathways.**

**Hazardous Waste Quantity (HWQ) Calculation:** SI Tables 1 and 2 (See HRS Tables 2-5, 2-6, and 5-2).

**See Attached Table for HWQ Calculation**

Attach additional pages, if necessary

HWQ = 1

SOURCE NO.	SOURCE NAME	TIER	AREA OR VOLUME	WQ DIVISOR	WQ VALUE
1	Contaminated Soil (Entire Site)	Area	11.362 Acres	0.78 Acres	14.57
2	12,850 Gal. Above Ground "Mineral Oil" Tank	Volume	12,850 Gal.	500 Gal.	25.70
3	5,870 Gal. Above Ground "Mineral Oil" Tank	Volume	5,870 Gal.	500 Gal.	11.74
4	Four (4) 250 Gal. Above Ground "Mineral Oil" Tanks	Volume	1,000 Gal.	500 Gal.	2.00
5	Former 560 Gal. Above Ground "Gasoline" Tank	Volume	560 Gal.	500 Gal.	1.12
6	Former 1,500 Gal. Above Ground "Diesel" Tank	Volume	1,500 Gal.	500 Gal.	3.00
7	Former Forty-Five (45) Drums of PCB Oil and Contaminated Soil	Volume	Not Applicable	10 Drums	4.50
8	Former 1,500 Gal. Above Ground PCB Oil Tank	Volume	1,500 Gal.	500 Gal.	3.00
9	Former 3,000 Gal. Above Ground PCB Oil Tank	Volume	3,000 Gal.	500 Gal.	6.00
10	Former 2,000 Used Transformers Containing 2.5 Gal. PCB Oil Each	Volume	5,000 Gal.	500 Gal.	10.00

**HWQ = 1**

**Σ of WQs = 81.63**

### HAZARDOUS WASTE QUANTITY (HWQ) CALCULATION FOR MULTIPLE SOURCES

SI TABLE 1: HAZARDOUS WASTE QUANTITY (HWQ) SCORES FOR SINGLE SOURCE SITES AND FORMULAS FOR MULTIPLE SOURCE SITES

		Single Source Sites (assigned HWQ scores)	
(Column 1)	(Column 2)	(Column 3)	(Column 4)
TIER	Source Type	HWQ = 10	HWQ = 100
<b>A</b> Hazardous Constituent Quantity	N/A	HWQ = 1 if Hazardous Constituent Quantity data are complete  HWQ = 10 if Hazardous Constituent Quantity data are not complete	>100 to 10,000 lbs
<b>B</b> Hazardous Wastestream Quantity	N/A	≤ 500,000 lbs	>500,000 to 50 million lbs
<b>C</b> Volume	Landfill	≤ 6.75 million ft <sup>3</sup> ≤ 250,000 yd <sup>3</sup>	>6.75 million to 675 million ft <sup>3</sup> >250,000 to 25 million yd <sup>3</sup>
	Surface impoundment	≤ 6,750 ft <sup>3</sup> ≤ 250 yd <sup>3</sup>	>6,750 to 675,000 ft <sup>3</sup> >250 to 25,000 yd <sup>3</sup>
	Drums	≤ 1,000 drums	>1,000 to 100,000 drums
	Tanks and non-drum containers	≤ 50,000 gallons	>50,000 to 5 million gallons
	Contaminated soil	≤ 6.75 million ft <sup>3</sup> ≤ 250,000 yd <sup>3</sup>	>6.75 million to 675 million ft <sup>3</sup> >250,000 to 25 million yd <sup>3</sup>
	Pile	≤ 6,750 ft <sup>3</sup> ≤ 250 yd <sup>3</sup>	>6,750 to 675,000 ft <sup>3</sup> >250 to 25,000 yd <sup>3</sup>
<b>D</b> Area	Other	≤ 6,750 ft <sup>3</sup> ≤ 250 yd <sup>3</sup>	>6,750 to 675,000 ft <sup>3</sup> >250 to 25,000 yd <sup>3</sup>
	Landfill	≤ 340,000 ft <sup>2</sup> ≤ 7.8 acres	>340,000 to 34 million ft <sup>2</sup> >7.8 to 780 acres
	Surface impoundment	≤ 1,300 ft <sup>2</sup> ≤ 0.029 acres	>1,300 to 130,000 ft <sup>2</sup> >0.029 to 2.9 acres
	Contaminated soil	≤ 3.4 million ft <sup>2</sup> ≤ 78 acres	> 3.4 million to 340 million ft <sup>2</sup> > 78 to 7,800 acres
	Pile	≤ 1,300 ft <sup>2</sup> ≤ 0.029 acres	>1,300 to 130,000 ft <sup>2</sup> >0.029 to 2.9 acres
	Land treatment	≤ 27,000 ft <sup>2</sup> ≤ 0.62 acres	>27,000 to 2.7 million ft <sup>2</sup> >0.62 to 62 acres

TABLE 1 (CONTINUED)

Single Source Sites (assigned HWQ scores)		Multiple Source Sites		
(Column 5)	(Column 6)	(Column 7) Divisors for Assigning Source WQ Values	(Column 2) Source Type	(Column 1) TIER
HWQ = 10,000	HWQ = 1,000,000			
>10,000 to 1 million lbs	> 1 million lbs	lbs + 1	N/A	<b>A</b> Hazardous Constituent Quantity
>50 million to 5 billion lbs	> 5 billion lbs	lbs + 5,000	N/A	<b>B</b> Hazardous Wastestream Quantity
>675 million to 67.5 billion ft <sup>3</sup> >25 million to 2.5 billion yd <sup>3</sup>	> 67.5 billion ft <sup>3</sup> > 2.5 billion yd <sup>3</sup>	ft <sup>3</sup> + 67,500 yd <sup>3</sup> + 2,500	Landfill	<b>C</b> Volume
>675,000 to 67.5 million ft <sup>3</sup> >25,000 to 2.5 million yd <sup>3</sup>	> 67.5 million ft <sup>3</sup> > 2.5 million yd <sup>3</sup>	ft <sup>3</sup> + 67.5 yd <sup>3</sup> + 2.5	Surface Impoundment	
>100,000 to 10 million drums	> 10 million drums	drums + 10	Drums	
>5 million to 500 million gallons	> 500 million gallons	gallons + 500	Tanks and non-drum containers	
>675 million to 67.5 billion ft <sup>3</sup> >25 million to 2.5 billion yd <sup>3</sup>	> 67.5 billion ft <sup>3</sup> > 2.5 billion yd <sup>3</sup>	ft <sup>3</sup> + 67,500 yd <sup>3</sup> + 2,500	Contaminated Soil	
>675,000 to 67.5 million ft <sup>3</sup> >25,000 to 2.5 million yd <sup>3</sup>	> 67.5 million ft <sup>3</sup> > 2.5 million yd <sup>3</sup>	ft <sup>3</sup> + 67.5 yd <sup>3</sup> + 2.5	Pile	
>675,000 to 67.5 million ft <sup>3</sup> >25,000 to 2.5 million yd <sup>3</sup>	> 67.5 million ft <sup>3</sup> > 2.5 million yd <sup>3</sup>	ft <sup>3</sup> + 67.5 yd <sup>3</sup> + 2.5	Other	
>34 million to 3.4 billion ft <sup>2</sup> >780 to 78,000 acres	> 3.4 billion ft <sup>2</sup> >78,000 acres	ft <sup>2</sup> + 3,400 acres + 0.078	Landfill	<b>D</b> Area
>130,000 to 13 million ft <sup>2</sup> >2.9 to 290 acres	> 13 million ft <sup>2</sup> > 290 acres	ft <sup>2</sup> + 13 acres + 0.00029	Surface Impoundment	
> 340 million to 34 billion ft <sup>2</sup> > 7,800 to 780,000 acres	> 34 billion ft <sup>2</sup> > 780,000 acres	ft <sup>2</sup> + 34,000 acres + 0.78	Contaminated Soil	
> 130,000 to 13 million ft <sup>2</sup> > 2.9 to 290 acres	> 13 million ft <sup>2</sup> > 290 acres	ft <sup>2</sup> + 13 acres + 0.00029	Pile	
>2.7 million to 270 million ft <sup>2</sup> >62 to 6,200 acres	> 270 million ft <sup>2</sup> > 6,200 acres	ft <sup>2</sup> + 270 acres + 0.0062	Land Treatment	

## HAZARDOUS WASTE QUANTITY (HWQ) CALCULATION

For each migration pathway, evaluate HWQ associated with sources that are available (i.e., incompletely contained) to migrate to that pathway. (Note: If *Actual Contamination Targets* exist for ground water, surface water, or air migration pathways, assign the calculated HWQ score or 100, whichever is greater, as the HWQ score for that pathway.) For each source, evaluate HWQ for one or more of the four tiers (SI Table 1; HRS Table 2-5) for which data exist: constituent quantity, wastestream quantity, source volume, and source area. Select the tier that gives the highest value as the source HWQ. Select the source volume HWQ rather than source area HWQ if data for both tiers are available.

Column 1 of SI Table 1 indicates the quantity tier. Column 2 lists source types for the four tiers. Columns 3, 4, 5, and 6 provide ranges of waste amount for sites with only one source, corresponding to HWQ scores at the tops of the columns. Column 7 provides formulas to obtain source waste quantity values at sites with multiple sources.

1. Identify each source type.
2. Examine all waste quantity data available for each source. Record constituent quantity and waste stream mass or volume. Record dimensions of each source.
3. Convert source measurements to appropriate units for each tier to be evaluated.
4. For each source, use the formulas in the last column of SI Table 1 to determine the waste quantity value for each tier that can be evaluated. Use the waste quantity value obtained from the highest tier as the quantity value for the source.
5. Sum the values assigned to each source to determine the total site waste quantity.
6. Assign HWQ score from SI Table 2 (HRS Table 2-6).

Note these exceptions to evaluate soil exposure pathway HWQ (see HRS Table 5-2):

- The divisor for the area (square feet) of a landfill is 34,000.
- The divisor for the area (square feet) of a pile is 34.
- Wet surface impoundments and tanks and non-drum containers are the only sources for which volume measurements are evaluated for the soil exposure pathway.

SI TABLE 2: HWQ SCORES FOR SITES

Site WQ Total	HWQ Score
0	0
1 <sup>a</sup> to 100	1 <sup>b</sup>
> 100 to 10,000	100
> 10,000 to 1 million	10,000
> 1 million	1,000,000

<sup>a</sup> If the WQ total is between 0 and 1, round it to 1.

<sup>b</sup> If the hazardous constituent quantity data are not complete, assign the score of 10.

# SI TABLE 3: WASTE CHARACTERIZATION WORKSHEET

Site Name: Vantran Electric Corporation

References: 12, 30 & 62

Source: Contaminated Soil

HAZARDOUS SUBSTANCE	TOXICITY	SURFACE WATER PATHWAY												
		GROUND WATER PATHWAY		OVERLAND/FLOOD MIGRATION							GROUND WATER TO SURFACE WATER			
		GW Mobility (HRS Table 3-8)	Tox/ Mobility Value (HRS Table 3-9)	Pers (HRS Tables 4-10 and 4-11)	Tox/Pers Value (HRS Table 4-12)	Bioacc- Pot (HRS Table 4-15)	Tox/ Pers/ Bioacc Value (HRS Table 4-16)	Ecotox (HRS Table 4-19)	Ecotox/ Pers (HRS Table 4-20)	Ecotox/ Pers/ Bioacc Value (HRS Table 4-21)	Tox/ Mob/ Pers/ Value (HRS Table 4-26)	Tox/ Mob/ Pers/ Bioacc Value (HRS Table 4-28)	Ecotox/ Mob/ Pers Value (HRS Table 4-29)	Ecotox/ Mob/ Pers/ Bioacc Value (HRS Table 4-30)
Aluminum	0	2E-09	0	1	0	50	0	100	100	5,000				
Arsenic	10,000	0.01	100	1	10,000	5	50,000	10	10	50				
Barium	10,000	0.01	100	1	10,000	0.5	5,000	1	1	0.5				
Calcium	0	1	0	1	0	500	0	0	0	0				
Cadmium	10,000	0.002	20	1	10,000	5,000	5E+07	1,000	1,000	5E+06				
Chromium	10,000	0.01	100	1	10,000	5	50,000	100	100	500				
Copper	0	0.01	0	1	0	50,000	0	100	100	5E+06				
Iron	1	0.01	0.01	1	1	0.5	0.5	10	10	5				
Lead	10,000	2E-05	0.2	1	10,000	50	5E+05	1,000	1,000	50,000				
Magnesium	0	2E-05	0	1	0	0.5	0	0	0	0				
Manganese	10,000	0.01	100	1	10,000	0.5	5,000	0	0	0				
Nickel	10,000	2E-05	0.2	1	10,000	0.5	5,000	10	10	5				
Vanadium	100	2E-07	2E-05	1	100	0.5	50	0	0	0				
Zinc	10	0.002	0.02	1	10	500	5,000	10	10	5,000				
gamma-Chlordane	10	2E-05	2E-04	1	10	50,000	5E+05	10,000	10,000	5E+08				
PCBs	10,000	2E-07	0.002	1	10,000	50,000	5E+08	10,000	10,000	5E+08				



### **Ground Water Observed Release Substances Summary Table**

On SI Table 4, list the hazardous substances associated with the site detected in ground water samples for that aquifer. Include only those substances directly observed or with concentrations significantly greater than background levels. Obtain toxicity values from the Superfund Chemical Data Matrix (SCDM). Assign mobility a value of 1 for all observed release substances regardless of the aquifer being evaluated. For each substance, multiply the toxicity by the mobility to obtain the toxicity/mobility factor value; enter the highest toxicity/mobility value for the aquifer in the space provided.

### **Ground Water Actual Contamination Targets Summary Table**

If there is an observed release at a drinking water well, enter each hazardous substance meeting the requirements for an observed release by well and sample ID on SI Table 5 and record the detected concentration. Obtain benchmark, cancer risk, and reference dose concentrations from SCDM. For MCL and MCLG benchmarks, determine the highest percentage of benchmark obtained for any substance. For cancer risk and reference dose, sum the percentages for the substances listed. If benchmark, cancer risk, or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage or the percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate the population using the well as a Level I target. If these percentages are less than 100% or all are N/A, evaluate the population using the well as a Level II target for that aquifer.

**SI TABLE 4: GROUND WATER OBSERVED RELEASE SUBSTANCES (BY AQUIFER)**

Sample ID	Hazardous Substance	Bckgrd. Conc.	Toxicity/Mobility	References
Highest Toxicity/Mobility				

N/A

**SI TABLE 5: GROUND WATER ACTUAL CONTAMINATION TARGETS**

Well ID: \_\_\_\_\_ Level I \_\_\_\_\_ Level II \_\_\_\_\_ Population Served \_\_\_\_\_ References \_\_\_\_\_

C-13

Sample ID	Hazardous Substance	Conc. (µg/L)	Benchmark Conc. (MCL or MCLG)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RfD	% of RfD
Highest Percent					Sum of Percents		Sum of Percents	

Well ID: \_\_\_\_\_ Level I \_\_\_\_\_ Level II \_\_\_\_\_ Population Served \_\_\_\_\_ References \_\_\_\_\_

Sample ID	Hazardous Substance	Conc. (µg/L)	Benchmark Conc. (MCL or MCLG)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RfD	% of RfD
Highest Percent					Sum of Percents		Sum of Percents	

**GROUND WATER PATHWAY  
GROUND WATER USE DESCRIPTION**

**Describe Ground Water Use within 4 Miles of the Site:**  
Describe generalized stratigraphy, aquifers, municipal and private wells

*See Attached Hydrogeology and Groundwater Targets*

**Show Calculations of Ground Water Drinking Water Populations for each Aquifer:**  
Provide apportionment calculations for blended supply systems.  
County average number of persons per household: 2.65 Reference 45

*See Attached Tables 4, 5 & 6*

## Hydrogeology and Groundwater Targets

Located within the upper region of the Coastal Plain Physiographic Province (CPPP), the site lies within a most significant groundwater recharge area for the Miocene/Pliocene-Recent unconfined aquifers (Ref. 32). The CPPP is underlain by a wedge of Cretaceous and younger sediments that dip gently towards the Gulf of Mexico and the Atlantic Ocean. The CPPP hydrogeologic units are a series of aquifers and intervening confining beds which were created by a series of marine transgressions and regressions (Ref. 33).

The Louisville, Ga. area is underlain by sediments of the Barnwell Group and are Upper Eocene in age (40 to 36 million years), (Ref. 33). In ascending order, the Barnwell Group is subdivided into the Clinchfield Formation, the Dry Branch Formation and the Tobacco Road Formation. The Barnwell Group is underlain by the Oconee Group which is early Late Cretaceous to Middle Eocene in age (97 to 43 million years). At the Thermo King Corporation facility located less than one (1) mile north of the site, the uppermost aquifer is comprised of at least one water-bearing unit underlain by the Twiggs Clay confining layer (Ref. 33). Depth to this uppermost aquifer ranges from 32 to 49 feet below ground surface.

A population of approx. 6,934 individuals obtain potable water from public and private wells located within 4 miles of the site (Refs. 3, 4, 12 & 34 - 47). Of these groundwater users, approx. 6,510 (i.e., 94%) obtain potable water from municipal wells owned and operated by the City of Louisville (Refs. 34 - 47). The remaining approx. 424 groundwater users obtain potable water from private wells (Ref. 35).

The City of Louisville was issued a permit to use groundwater from the Middle Eocene and Cretaceous Sand Aquifers and a permit to operate a public water system by the Georgia EPD on 11/10/99 and 6/29/01 respectively (Refs. 48 - 51). The City of Louisville Water System (CLWS) obtains raw water from 6 municipal wells, one of which is a regularly maintained standby well (Refs. 12 & 36). Located between 1 and 2 miles of the site, 5 of the city's wells are clustered around the City of Louisville Water Works facility at 301 Green St. (Refs. 3, 4, 12 & 34). The city's standby well is located between ½ and 1 mile of the site.

The CLWS is a blended system in that the potential exists for any water consumer to receive potable water from either of the 6 municipal wells (Ref. 36). Total well depths range from 250 to 498 feet below ground surface (Refs. 36 & 49). No single municipal well contributes more than 40% of the system's total annual pumping rate (Ref. 36). Nine hundred and twenty-six (926) active service connections are associated with the system, the largest of which include the Old Capital Inn Convalescent and Nursing Home, Jefferson Hospital and the Louisville High School (Refs. 36 - 39). Treated water from the CLWS is sold to Jefferson County thru a water purchase contract (Refs. 36, 40, 52 & 53). Other than the 6 municipal wells associated with the CLWS, no other municipal wells are located within four (4) miles of the site (Ref. 36).

The Jefferson County Board of Commissioners were issued a permit to operate a public water system by the Georgia EPD on 3/13/97 (Refs. 52 & 53). Treated water from the CLWS is the sole source of water for the Jefferson County Water System (JCWS), (Refs. 36, 40, 52 & 53). Four hundred (400) active service connections are associated with the JCWS system, the largest of which include the Louisville Middle School, Thomas Jefferson Academy, Thermo King Corporation and the Jefferson County Correctional Institute (Refs. 40 - 44).

A total population of approx. 424 individuals obtain potable water from approximately 153 private wells located within 4 miles of the site (Ref. 35). Although not field verified during the 6/25-26/02 off-site reconnaissance, records from the U.S. Census Bureau indicate that a single individual may consume water from a private well located within ¼ mile of the site. Most private wells in the Louisville area are drilled to approximately 280 feet below ground surface, however, some private wells are as shallow as 125 feet below ground surface (Ref. 36). Based upon interviews with local private well owners, private wells in the Louisville area are believed to obtain groundwater from the limestone or Cretaceous sand aquifers located beneath the Twiggs Clay confining layer (Ref. 33).

For the purposes of this SI (and as an environmentally conservative measure), municipal and private drinking water wells are assumed to obtain groundwater from the same aquifer.

DISTANCE FROM SITE (Miles)	POP. SERVED BY PUBLIC WELLS	POP. SERVED BY PRIVATE WELLS	TOTAL POP. SERVED (PUBLIC+PRIVATE)
0 - ¼	0	1	1
¼ - ½	0	3	3
½ - 1	1085	7	1092
1 - 2	5425	53	5478
2 - 3	0	145	145
3 - 4	0	215	215
TOTAL	6510	424	6934

**TABLE 4: Population Served by Public and Private Wells Located  
Within 4-Miles of Site (Refs. 3, 4 & 34 - 47)**

WELL NUMBER	NORTH LATITUDE	WEST LONGITUDE	TOTAL DEPTH (feet below ground surface)	PUMPING RATE (gallons per minute)	DISTANCE FROM SITE (miles)
1	32° 59' 47.479"	82° 24' 41.678"	367	500	less than 2, greater than 1
2	32° 59' 57.588"	82° 24' 00.416"	348	0*	less than 1, greater than ½
3	32° 59' 45.840"	82° 24' 42.342"	250	200	less than 2, greater than 1
4	32° 59' 47.989"	82° 24' 42.928"	300	500	less than 2, greater than 1
5	32° 59' 45.812"	82° 24' 41.769"	498	800	less than 2, greater than 1
6	32° 59' 49.595"	82° 24' 44.353"	345	800	less than 2, greater than 1

\* Well # 2 is a regularly maintained standby well.

**TABLE 5: City Well Locations, Total Depths, Pumping Rates & Distances From Site (Refs. 3, 4, 36, 46 & 49)**

NAME OF SERVICE CONNECTION	MUNICIPAL WATER SYTEM	POPULATION SERVED BY CONNECTION
Jefferson County Correctional Institute	Jefferson County	220
Jefferson Hospital	City of Louisville	147
Louisville High School	City of Louisville	1,200
Louisville Middle School	Jefferson County	553
Old Capital Inn Convalescent and Nursing Home	City of Louisville	235
Thermo King Corporation	Jefferson County	388
Thomas Jefferson Academy	Jefferson County	270

**TABLE 6: Populations Served by Larger Water Service Connections (Refs. 36 – 44)**

# GROUND WATER PATHWAY WORKSHEET

LIKELIHOOD OF RELEASE	Score	Data Type	Refs
1. OBSERVED RELEASE: If sampling data or direct observation support a release to the aquifer, assign a score of 550. Record observed release substances on SI Table 4.			
2. POTENTIAL TO RELEASE: Depth to aquifer: _____ feet. If sampling data do not support a release to the aquifer, and the site is in karst terrain or the depth to aquifer is 70 feet or less, assign a score of 500; otherwise, assign a score of 340. Optionally, evaluate potential to release according to HRS Section 3.	500		
LR = 500			

## TARGETS

Are any wells part of a blended system? Yes _____ No _____ If yes, attach a page to show apportionment calculations.			
3. ACTUAL CONTAMINATION TARGETS: If analytical evidence indicates that any target drinking water well for the aquifer has been exposed to a hazardous substance from the site, evaluate the factor score for the number of people served (SI Table 5).  Level I: _____ people x 10 = _____ Level II: _____ people x 1 = _____ Total = _____	0		
4. POTENTIAL CONTAMINATION TARGETS: Determine the number of people served by drinking water wells for the aquifer or overlying aquifers that are not exposed to a hazardous substance from the site; record the population for each distance category in SI Table 6a or 6b. Sum the population values and multiply by 0.1.	150.2		3,4,12 34-47
5. NEAREST WELL: Assign a score of 50 for any Level I Actual Contamination Targets for the aquifer or overlying aquifer. Assign a score of 45 if there are Level II targets but no Level I targets. If no Actual Contamination Targets exist, assign the Nearest Well score from SI Table 6a or 6b. If no drinking water wells exist within 4 miles, assign 0.	20		35
6. WELLHEAD PROTECTION AREA (WHPA): If any source lies within or above a WHPA for the aquifer, or if a ground water observed release has occurred within a WHPA, assign a score of 20; assign 5 if neither condition applies but a WHPA is within 4 miles; otherwise assign 0.	5		12, 46
7. RESOURCES: Assign a score of 5 if one or more ground water resource applies; assign 0 if none applies.  <ul style="list-style-type: none"> <li>• Irrigation (5 acre minimum) of commercial food crops or commercial forage crops</li> <li>• Watering of commercial livestock</li> <li>• Ingredient in commercial food preparation</li> <li>• Supply for commercial aquaculture</li> <li>• Supply for a major or designated water recreation area, excluding drinking water use</li> </ul>	5		36
Sum of Targets T= 180.2			



SI TABLE 6 (From HRS TABLE 3-12): VALUES FOR POTENTIAL CONTAMINATION GROUND WATER  
TARGET POPULATIONS

SI Table 6a: Other Than Karst Aquifers

Distance from Site	Pop.	Nearest Well (choose highest)	Population Served by Wells within Distance Category												Pop. Value	Rel.
			1 to 10	11 to 30	31 to 100	101 to 300	301 to 1000	1001 to 3000	3001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	1,000,000 to 3,000,000		
0 to $\frac{1}{4}$ mile	1	(20)	(4)	17	53	164	522	1,633	5,214	16,325	52,137	163,246	521,360	1,632,455	4	34
$> \frac{1}{4}$ to $\frac{1}{2}$ mile	3	18	(2)	11	33	102	324	1,013	3,233	10,122	32,325	101,213	323,243	1,012,122	2	34
$> \frac{1}{2}$ to 1 mile	1092	9	1	5	17	52	167	(523)	1,669	5,224	16,684	52,239	166,835	522,385	523	34-47
$> 1$ to 2 miles	5478	5	0.7	3	10	30	94	294	(939)	2,939	9,385	29,384	93,845	293,842	939	34-47
$> 2$ to 3 miles	145	3	0.5	2	7	(21)	68	212	678	2,122	6,778	21,222	67,777	212,219	21	34
$> 3$ to 4 miles	215	2	0.3	1	4	(13)	42	131	417	1,306	4,171	13,060	41,709	130,596	13	34
Nearest Well =		20													Sum =	
															1502	

C-16

**SI TABLE 6 (From HRS TABLE 3-12): VALUES FOR POTENTIAL CONTAMINATION GROUND WATER TARGET POPULATIONS (continued)**

**SI Table 6b: Karst Aquifers**

C-17

Distance from Site	Pop.	Nearest Well (choose highest)	Population Served by Wells within Distance Category												Pop. Value	Ref.
			1 to 10	11 to 30	31 to 100	101 to 300	301 to 1000	1001 to 3000	3001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	1,000,000 to 3,000,000		
0 to $\frac{1}{4}$ mile		20	4	17	53	164	522	1,633	5,214	16,325	52,137	163,246	521,360	1,632,455		
$> \frac{1}{4}$ to $\frac{1}{2}$ mile		20	2	11	33	102	324	1,013	3,233	10,122	32,325	101,213	323,243	1,012,122		
$> \frac{1}{2}$ to 1 mile		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		
$> 1$ to 2 miles		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		
$> 2$ to 3 miles		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		
$> 3$ to 4 miles		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		
Nearest Well =															Sum =	

N/A

# GROUND WATER PATHWAY WORKSHEET (concluded)

WASTE CHARACTERISTICS	Score	Data Type	Does not Apply																						
8. If any Actual Contamination Targets exist for the aquifer or overlying aquifers, assign the calculated hazardous waste quantity score or a score of 100, whichever is greater; if no Actual Contamination Targets exist, assign the hazardous waste quantity score calculated for sources available to migrate to ground water.	1																								
9. Assign the highest ground water toxicity/mobility value from SI Table 3 or 4.	100																								
10. Multiply the ground water toxicity/mobility and hazardous waste quantity scores. Assign the Waste Characteristics score from the table below: (from HRS Table 2-7)																									
<table border="1"> <thead> <tr> <th>Product</th> <th>WC Score</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td></tr> <tr><td>&gt;0 to &lt;10</td><td>1</td></tr> <tr><td>10 to &lt;100</td><td>2</td></tr> <tr><td>100 to &lt;1,000</td><td>3</td></tr> <tr><td>1,000 to &lt;10,000</td><td>6</td></tr> <tr><td>10,000 to &lt;1E + 05</td><td>10</td></tr> <tr><td>1E + 05 to &lt;1E + 06</td><td>18</td></tr> <tr><td>1E + 06 to &lt;1E + 07</td><td>32</td></tr> <tr><td>1E + 07 to &lt;1E + 08</td><td>56</td></tr> <tr><td>1E + 08 or greater</td><td>100</td></tr> </tbody> </table>	Product	WC Score	0	0	>0 to <10	1	10 to <100	2	100 to <1,000	3	1,000 to <10,000	6	10,000 to <1E + 05	10	1E + 05 to <1E + 06	18	1E + 06 to <1E + 07	32	1E + 07 to <1E + 08	56	1E + 08 or greater	100			
Product	WC Score																								
0	0																								
>0 to <10	1																								
10 to <100	2																								
100 to <1,000	3																								
1,000 to <10,000	6																								
10,000 to <1E + 05	10																								
1E + 05 to <1E + 06	18																								
1E + 06 to <1E + 07	32																								
1E + 07 to <1E + 08	56																								
1E + 08 or greater	100																								
WC =	3																								

Multiply LR by T and by WC. Divide the product by 82,500 to obtain the ground water pathway score for each aquifer. Select the highest aquifer score. If the pathway score is greater than 100, assign 100.

GROUND WATER PATHWAY SCORE:

$$\frac{LR \times T \times WC}{82,500}$$

3.3  
(Maximum of 100)

$$\frac{(500)(180.2)(3)}{82,500} = 3.276 \approx 3.$$

## SURFACE WATER PATHWAY

### Sketch of the Surface Water Migration Route:

Label all surface water bodies. Include runoff route and drainage direction, probable point of entry, and 15-mile target distance limit. Mark sample locations, intakes, fisheries, and sensitive environments. Indicate flow directions, tidal influence, and rate.

See Attached Figures 7, 8, 9 and 10

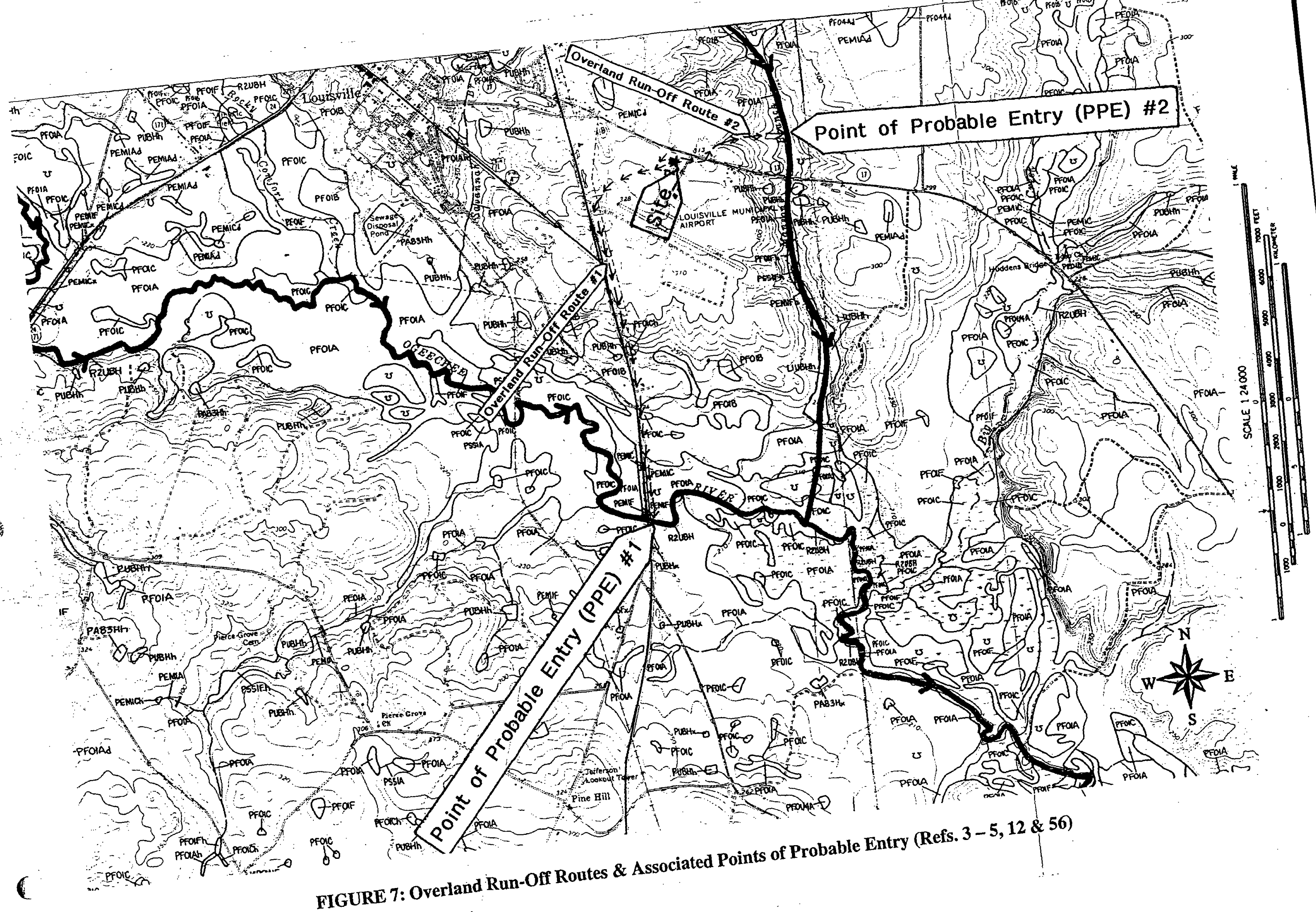
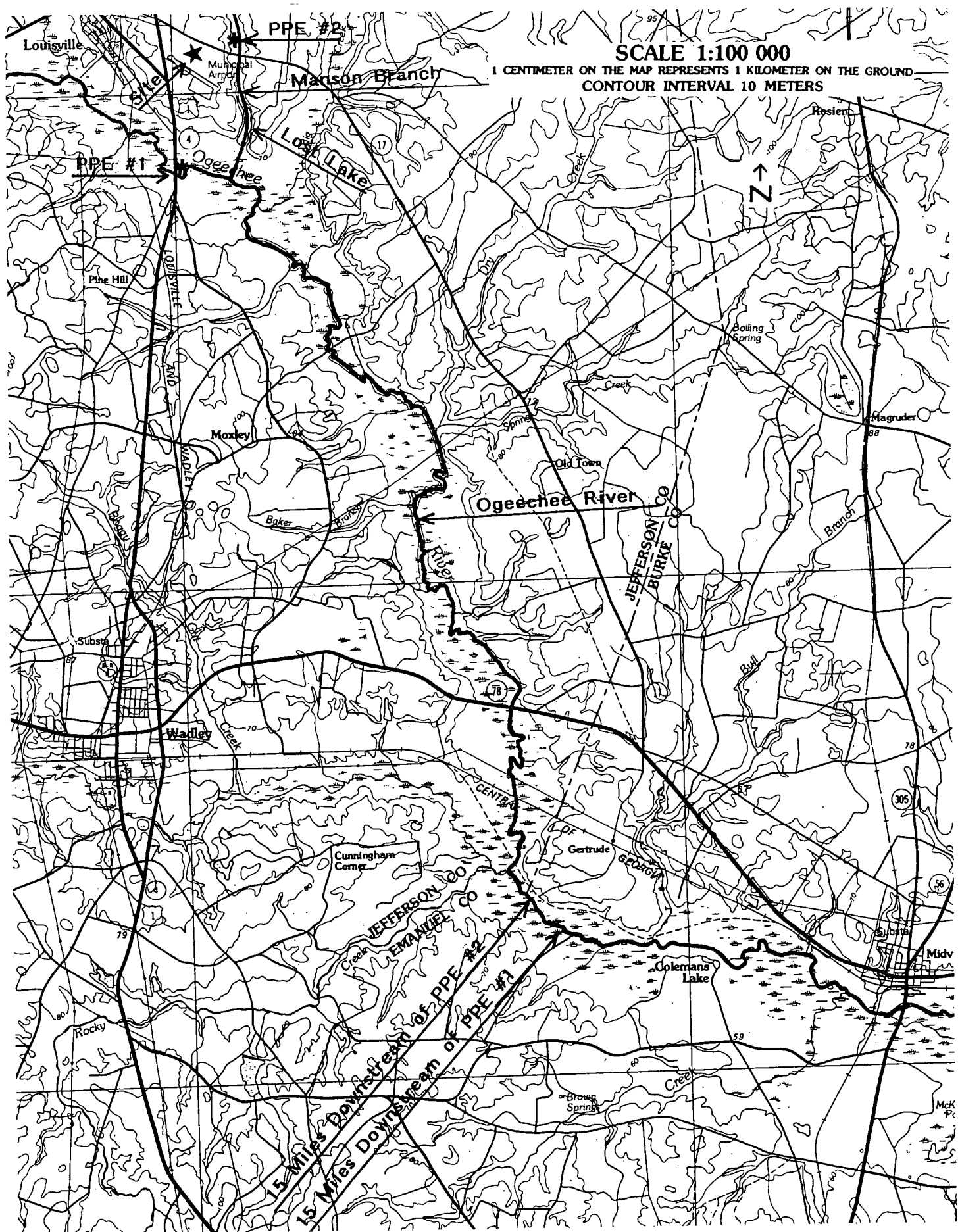


FIGURE 7: Overland Run-Off Routes & Associated Points of Probable Entry (Refs. 3 - 5, 12 & 56)



**FIGURE 8: Fifteen Mile Perennial Downstream Target Distances**  
(Refs. 3 – 5, 12 & 55)

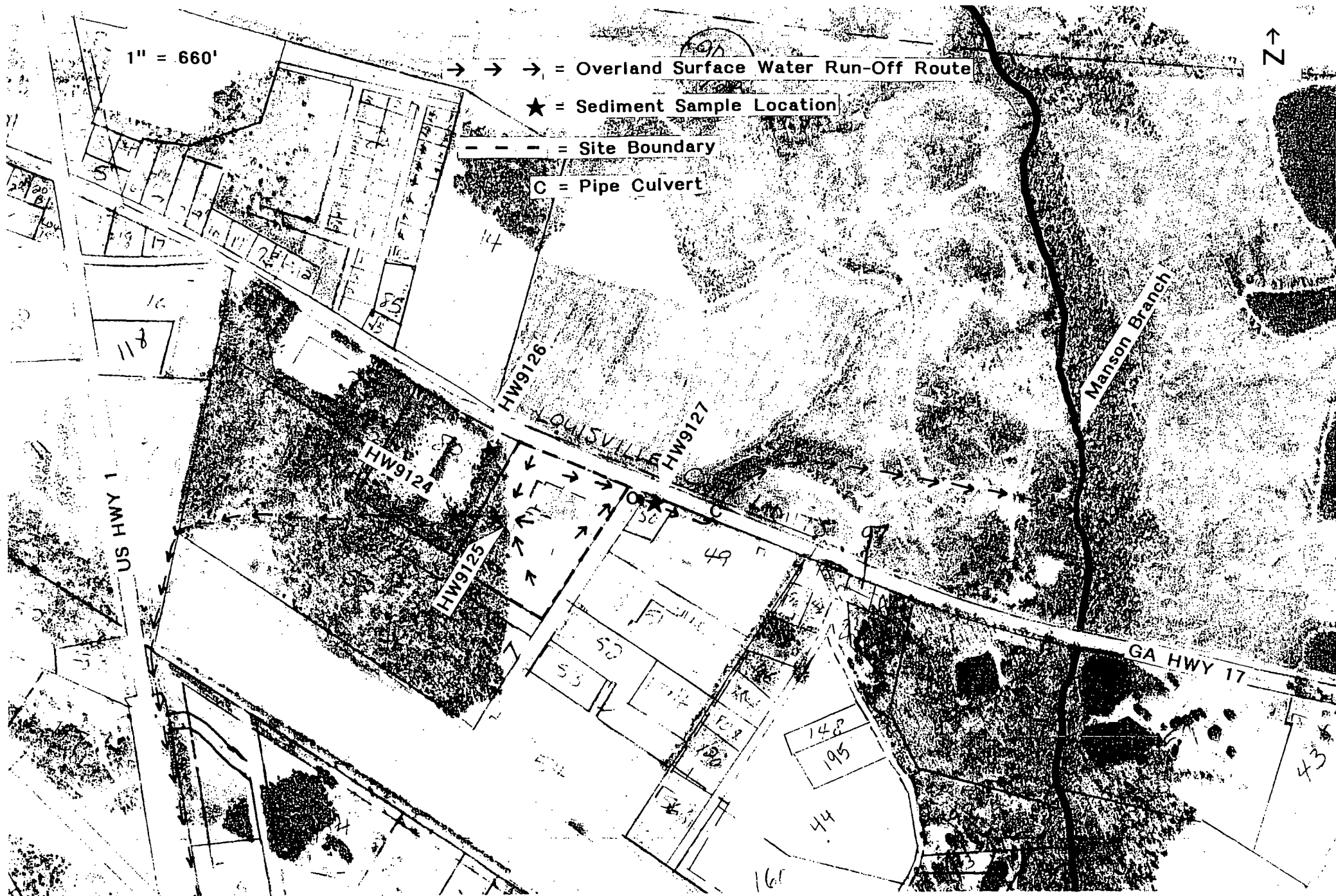
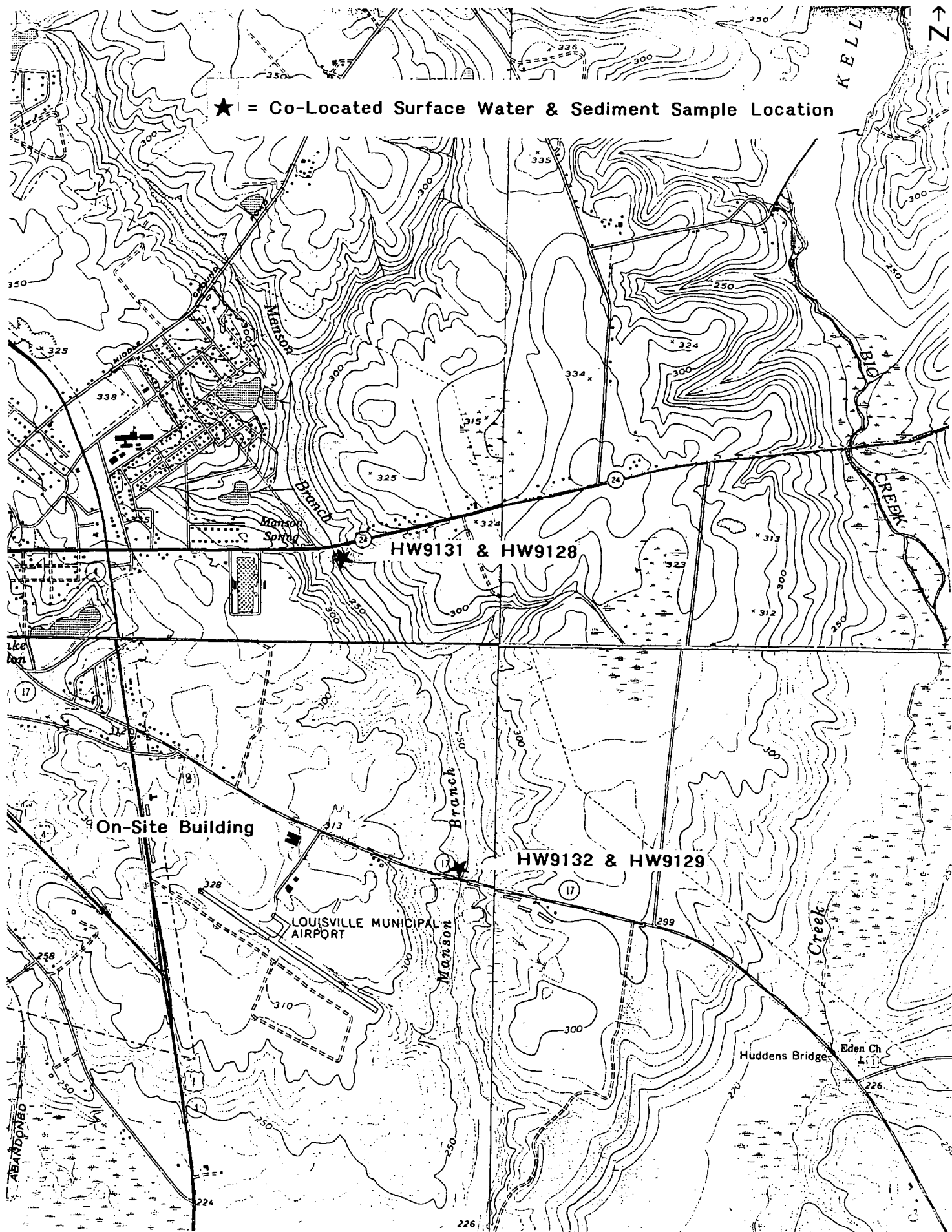


FIGURE 9: On-Site & Off-Site Sediment Sample Locations (Refs. 5 & 12)



**FIGURE 10: Manson Branch Surface Water & Sediment Sample Locations (Refs. 4 & 12)**



## **SURFACE WATER PATHWAY**

### **Surface Water Observed Release Substances Summary Table**

On SI Table 7, list the hazardous substances detected in surface water samples for the watershed, which can be attributed to the site. Include only those substances in observed releases (direct observation) or with concentration levels significantly above background levels. Obtain toxicity, persistence, bioaccumulation potential, and ecotoxicity values from SCDM. Enter the highest toxicity/persistence, toxicity/persistence/bioaccumulation, and ecotoxicity/persistence/ecobioaccumulation values in the spaces provided.

- TP = Toxicity x Persistence
- TPB = TP x bioaccumulation
- ETPB = EP x bioaccumulation (EP = ecotoxicity x persistence)

### **Drinking Water Actual Contamination Targets Summary Table**

For an observed release at or beyond a drinking water intake, on SI Table 8 enter each hazardous substance by sample ID and the detected concentration. For surface water sediment samples detecting a hazardous substance at or beyond an intake, evaluate the intake as Level II contamination. Obtain benchmark, cancer risk, and reference dose concentrations for each substance from SCDM. For MCL and MCLG benchmarks, determine the highest percentage of benchmark obtained for any substance. For cancer risk and reference dose, sum the percentages of the substances listed. If benchmark, cancer risk, or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage or the percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate the population served by the intake as a Level I target. If the percentages are less than 100% or all are N/A, evaluate the population served by the intake as a Level II target.

SI TABLE 7: SURFACE WATER OBSERVED RELEASE SUBSTANCES

Sample ID	Hazardous Substance	Bckgrd. Conc.	Toxicity/ Persistence	Toxicity/ Persis./ Bioaccum	Ecotoxicity/ Persis/ Ecobioaccum	References
HW9129	CALCIUM	ND	0	0	0	30, 62
Highest Values						

SI TABLE 8: SURFACE WATER DRINKING WATER ACTUAL CONTAMINATION TARGETS

Intake ID: \_\_\_\_\_ Sample Type \_\_\_\_\_ Level I \_\_\_\_\_ Level II \_\_\_\_\_ Population Served \_\_\_\_\_ References \_\_\_\_\_

Sample ID	Hazardous Substance	Conc. (µg/L)	Benchmark Conc. (MCL or MCLG)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RfD	% of RfD
Highest Percent					Sum of Percents		Sum of Percents	

Intake ID: \_\_\_\_\_ Sample Type \_\_\_\_\_ Level I \_\_\_\_\_ Level II \_\_\_\_\_ Population Served \_\_\_\_\_ References \_\_\_\_\_

Sample ID	Hazardous Substance	Conc. (µg/L)	Benchmark Conc. (MCL or MCLG)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RfD	% of RfD
Highest Percent					Sum of Percents		Sum of Percents	

C-21



# SURFACE WATER PATHWAY LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT WORKSHEET

## LIKELIHOOD OF RELEASE- OVERLAND/FLOOD MIGRATION

	Score	Data Type	Refs
1. OBSERVED RELEASE: If sampling data or direct observation support a release to surface water in the watershed, assign a score of 550. Record observed release substances on SI Table 7.	550		12,30
2. POTENTIAL TO RELEASE: Distance to surface water: _____ (feet) If sampling data do not support a release to surface water in the watershed, use the table below to assign a score from the table below based on distance to surface water and flood frequency.			

Distance to surface water <2500 feet	500
Distance to surface water >2500 feet, and:	
Site in annual or 10-yr floodplain	500
Site in 100-yr floodplain	400
Site in 500-yr floodplain	300
Site outside 500-yr floodplain	100

Optionally, evaluate surface water potential to release according to HRS Section 4.1.2.1.2

LR = 550

## LIKELIHOOD OF RELEASE GROUND WATER TO SURFACE WATER MIGRATION

	Score	Data Type	Refs
1. OBSERVED RELEASE: If sampling data or direct observation support a release to surface water in the watershed, assign a score of 550. Record observed release substances on SI Table 7.			
NOTE: Evaluate ground water to surface water migration only for a surface water body that meets all of the following conditions:			
1) A portion of the surface water is within 1 mile of site sources having a containment factor greater than 0.			
2) No aquifer discontinuity is established between the source and the above portion of the surface water body.			
3) The top of the uppermost aquifer is at or above the bottom of the surface water.			
Elevation of top of uppermost aquifer _____			
Elevation of bottom of surface water body _____			
2. POTENTIAL TO RELEASE: Use the ground water potential to release. Optionally, evaluate surface water potential to release according to HRS Section 3.1.2.			

LR =

**SURFACE WATER PATHWAY  
LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT WORKSHEET  
(CONTINUED)**

DRINKING WATER THREAT TARGETS	Score	Data Type	Refs																
<p>Record the water body type, flow, and number of people served by each drinking water intake within the target distance limit in the watershed. If there is no drinking water intake within the target distance limit, assign 0 to factors 3, 4, and 5.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Intake Name</th> <th style="text-align: left; padding: 2px;">Water Body Type</th> <th style="text-align: left; padding: 2px;">Flow</th> <th style="text-align: left; padding: 2px;">People Served</th> </tr> </thead> <tbody> <tr><td style="height: 15px;"></td><td></td><td></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td><td></td><td></td></tr> <tr><td style="height: 15px;"></td><td></td><td></td><td></td></tr> </tbody> </table> <p>Are any intakes part of a blended system? Yes _____ No _____ If yes, attach a page to show apportionment calculations.</p> <p>3. ACTUAL CONTAMINATION TARGETS: If analytical evidence indicates a drinking water intake has been exposed to a hazardous substance from the site, list the intake name and evaluate the factor score for the drinking water population (SI Table 8).</p> <hr style="border: 0; border-top: 1px solid black; margin: 10px 0;"/> <p>Level I: _____ people x 10 = _____            Level II: _____ people x 1 = _____      <b>Total =</b></p>	Intake Name	Water Body Type	Flow	People Served													0		36
Intake Name	Water Body Type	Flow	People Served																
<p>4. POTENTIAL CONTAMINATION TARGETS: Determine the number of people served by drinking water intakes for the watershed that have not been exposed to a hazardous substance from the site. Assign the population values from SI Table 9. Sum the values and multiply by 0.1.</p>	0		36																
<p>5. NEAREST INTAKE: Assign a score of 50 for any Level I Actual Contamination Drinking Water Targets for the watershed. Assign a score of 45 if there are Level II targets for the watershed, but no Level I targets. If no Actual Contamination Drinking Water Targets exist, assign a score for the intake nearest the PPE from SI Table 9. If no drinking water intakes exist, assign 0.</p>	0		36																
<p>6. RESOURCES: Assign a score of 5 if one or more surface water resource applies; assign 0 if none applies.</p> <ul style="list-style-type: none"> <li>• Irrigation (5 acre minimum) of commercial food crops or commercial forage crops</li> <li>• Watering of commercial livestock</li> <li>• Ingredient in commercial food preparation</li> <li>• Major or designated water recreation area, excluding drinking water use</li> </ul>	5		36																
<b>SUM OF TARGETS    T=</b>	5																		

**SI TABLE 9 (From HRS Table 4-14): DILUTION-WEIGHTED POPULATION VALUES FOR POTENTIAL CONTAMINATION FOR SURFACE WATER MIGRATION PATHWAY**

Type of Surface Water Body	Pop.	Nearest Intake	Number of people									Pop. Value
			0	1 to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	
Minimal Stream (<10 cfs)		20	0	4	17	53	164	522	1,633	5,214	16,325	
Small to moderate stream (10 to 100 cfs)		2	0	0.4	2	5	16	52	163	521	1,633	
Moderate to large stream (> 100 to 1,000 cfs)		0	0	0.04	0.2	0.5	2	5	16	52	163	
Large Stream to river (>1,000 to 10,000 cfs)		0	0	0.004	0.02	0.05	0.2	0.5	2	5	16	
Large River (> 10,000 to 100,000 cfs)		0	0	0	0.002	0.005	0.02	0.05	0.2	0.5	16	
Very Large River (>100,000 cfs)		0	0	0	0	0.001	0.002	0.005	0.02	0.05	0.2	
Shallow ocean zone or Great Lake (depth < 20 feet)		0	0	0	0.002	0.005	0.02	0.05	0.2	0.5	2	
Moderate ocean zone or Great Lake (Depth 20 to 200 feet)		0	0	0	0	0.001	0.002	0.005	0.02	0.05	0.2	
Deep ocean zone or Great Lake (depth > 200 feet)		0	0	0	0	0	0.001	0.003	0.008	0.03	0.08	
3-mile mixing zone in quiet flowing river ( $\geq 10$ cfs)		10	0	2	9	26	82	261	817	2,607	8,163	
Nearest Intake =			Sum =									

References \_\_\_\_\_

C-25

N/A

## **SURFACE WATER PATHWAY**

### **Human Food Chain Actual Contamination Targets Summary Table**

On SI Table 10, list the hazardous substances detected in sediment, aqueous, sessile benthic organism tissue, or fish tissue samples (taken from fish caught within the boundaries of the observed release) by sample ID and concentration. Evaluate fisheries within the boundaries of observed releases detected by sediment or aqueous samples as Level II, if at least one observed release substance has a bioaccumulation potential factor value of 500 or greater (see SI Table 7). Obtain benchmark, cancer risk, and reference dose concentrations from SCDM. For FDAAL benchmarks, determine the highest percentage of benchmark obtained for any substance. For cancer risk and reference dose, sum the percentages for the substances listed. If benchmark, cancer risk, or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate this portion of the fishery as subject to Level I concentrations. If the percentages are less than 100% or all are N/A, evaluate the fishery as a Level II target.

### **Sensitive Environment Actual Contamination Targets Summary Table**

On SI Table 11, list each hazardous substance detected in aqueous or sediment samples at or beyond wetlands or a surface water sensitive environment by sample ID. Record the concentration. If contaminated sediments or tissues are detected at or beyond a sensitive environment, evaluate the sensitive environment as Level II. Obtain benchmark concentrations from SCDM. For AWQC/AALAC benchmarks, determine the highest percentage of benchmark of the substances detected in aqueous samples. If benchmark concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage equals or exceeds 100%, evaluate that part of the sensitive environment subject to Level I concentrations. If the percentage is less than 100%, or all are N/A, evaluate the sensitive environment as Level II.

**SI TABLE 10: HUMAN FOOD CHAIN ACTUAL CONTAMINATION TARGETS FOR WATERSHED**

Fishery ID: MANSON BRANCH Sample Type SEDIMENT Level I      Level II ✓ References 30, 62

Sample ID	Hazardous Substance	Conc. (mg/kg)	Benchmark Concentration (FDAAL)	% of Benchmark	Cancer Risk Concentration.	% of Cancer Risk Concentration	RID	% of RID
HW9129	CALCIUM	1,400	N/A	N/A	N/A			
			Highest Percent		Sum of Percents		Sum of Percents	

**SI TABLE 11: SENSITIVE ENVIRONMENT ACTUAL CONTAMINATION TARGETS FOR WATERSHED**

Environment ID: \_\_\_\_\_ Sample Type \_\_\_\_\_ Level I \_\_\_\_\_ Level II \_\_\_\_\_ Environment Value \_\_\_\_\_

Sample ID	Hazardous Substance	Conc.. (µg/L)	Benchmark Concentration (AWQC or AALAC)	% of Benchmark	References
			Highest Percent		

Environment ID: \_\_\_\_\_ Sample Type \_\_\_\_\_ Level I \_\_\_\_\_ Level II \_\_\_\_\_ Environment Value \_\_\_\_\_

Sample ID	Hazardous Substance	Conc.. (µg/L)	Benchmark Concentration (AWQC or AALAC)	% of Benchmark	References
			Highest Percent		



# **SURFACE WATER PATHWAY (continued) HUMAN FOOD CHAIN THREAT WORKSHEET**

HUMAN FOOD CHAIN THREAT TARGETS	Score	Data Type	Refs										
<p>Record the water body type and flow for each fishery within the target distance limit. If there is no fishery within the target distance limit, assign a score of 0 at the bottom of this page.</p>													
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">           Fishery Name _____ Water Body _____ Flow _____ cfs             Species _____ Production _____ lbs/yr            Species _____ Production _____ lbs/yr         </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">           Fishery Name _____ Water Body _____ Flow _____ cfs             Species _____ Production _____ lbs/yr            Species _____ Production _____ lbs/yr         </div> <div style="border: 1px solid black; padding: 5px;">           Fishery Name _____ Water Body _____ Flow _____ cfs             Species _____ Production _____ lbs/yr            Species _____ Production _____ lbs/yr         </div>													
<p><b>FOOD CHAIN INDIVIDUAL</b></p>													
<p><b>7. ACTUAL CONTAMINATION FISHERIES:</b></p> <p>If analytical evidence indicates that a fishery has been exposed to a hazardous substance with a bioaccumulation factor greater than or equal to 500 (SI Table 10), assign a score of 50 if there is a Level I fishery. Assign 45 if there is a Level II fishery, but no Level I fishery.</p>													
	45		12, 30, 57										
<p><b>8. POTENTIAL CONTAMINATION FISHERIES:</b></p> <p>If there is a release of a substance with a bioaccumulation factor greater than or equal to 500 to a watershed containing fisheries within the target distance limit, but there are no Level I or Level II fisheries, assign a score of 20.</p> <p>If there is no observed release to the watershed, assign a value for potential contamination fisheries from the table below using the lowest flow at all fisheries within the target distance limit:</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width:50%;">Lowest Flow</th> <th style="width:50%;">FCI Value</th> </tr> </thead> <tbody> <tr> <td>&lt;10 cfs</td> <td align="center">20</td> </tr> <tr> <td>10 to 100 cfs</td> <td align="center">2</td> </tr> <tr> <td>&gt;100 cfs, coastal tidal waters, oceans, or Great Lakes</td> <td align="center">0</td> </tr> <tr> <td>3-mile mixing zone in quiet flowing river</td> <td align="center">10</td> </tr> </tbody> </table>				Lowest Flow	FCI Value	<10 cfs	20	10 to 100 cfs	2	>100 cfs, coastal tidal waters, oceans, or Great Lakes	0	3-mile mixing zone in quiet flowing river	10
Lowest Flow	FCI Value												
<10 cfs	20												
10 to 100 cfs	2												
>100 cfs, coastal tidal waters, oceans, or Great Lakes	0												
3-mile mixing zone in quiet flowing river	10												
FCI Value =	20		12, 57										
<b>SUM OF TARGETS T =</b>	65												

# SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT WORKSHEET

When measuring length of wetlands that are located on both sides of a surface water body, sum both frontage lengths. For a sensitive environment that is more than one type, assign a value for each type.

ENVIRONMENTAL THREAT TARGETS					Score	Data Type	Refs
Record the water body type and flow for each surface water sensitive environment within the target distance (see SI Table 12). If there is no sensitive environment within the target distance limit, assign a score of 0 at the bottom of the page.							
<b>Environment Name</b>	<b>Water Body Type</b>	<b>Flow</b>					
MANSON BRANCH	MINIMAL STREAM	210	cfs				12
LOST LAKE	LAKE	210	cfs				12
OGEECHEE RIVER	LARGE STREAM	844	cfs				54
			cfs				
			cfs				
<b>9. ACTUAL CONTAMINATION SENSITIVE ENVIRONMENTS: II</b> sampling data or direct observation indicate any sensitive environment has been exposed to a hazardous substance from the site, record this information on SI Table 11, and assign a factor value for the environment (SI Tables 13 and 14).							
<b>Environment Name</b>	<b>Environment Type and Value (SI Tables 13 &amp; 14)</b>	<b>Multiplier (10 for Level I, 1 for Level II)</b>		<b>Product</b>			
		X					
		X					
		X					
		X					
Sum =					0		
<b>10. POTENTIAL CONTAMINATION SENSITIVE ENVIRONMENTS:</b>							
<b>Flow</b>	<b>Dilution Weight (SI Table 12)</b>	<b>Environment Type and Value (SI Tables 13 &amp; 14)</b>	<b>Pot. Cont.</b>	<b>Product</b>			
10 cfs	1	MANSON BRANCH WETLAND 50X	0.1	5			12, 56
10 cfs	1	LOST LAKE WETLAND 50X	0.1	5			12, 56
10 cfs	1	MANSON BRANCH WETLAND 50X	0.1	5			12, 56
844 cfs	0.01	OGEECHEE RIVER WETLAND 500X	0.1	0.5			12, 54, 56
844 cfs	0.01	STATE ENDANGERED MUSSEL IN OGEECHEE 50X	0.1	0.05			12, 54, 60
Sum =					15.55		
T =					15.55		

**SI TABLE 12 (HRS Table 4-13):  
SURFACE WATER DILUTION WEIGHTS**

<b>Type of Surface Water Body</b>		<b>Assigned Dilution Weight</b>
<b>Descriptor</b>	<b>Flow Characteristics</b>	
Minimal stream	< 10 cfs	1
Small to moderate stream	10 to 100 cfs	0.1
Moderate to large stream	> 100 to 1,000 cfs	0.01
Large stream to river	> 1,000 to 10,000 cfs	0.001
Large river	> 10,000 to 100,000 cfs	0.0001
Very large river	> 100,000 cfs	0.00001
Coastal tidal waters	Flow not applicable; depth not applicable	0.001
Shallow ocean zone or Great Lake	Flow not applicable; depth less than 20 feet	0.001
Moderate depth ocean zone or Great Lake	Flow not applicable; depth 20 to 200 feet	0.0001
Deep ocean zone or Great Lake	Flow not applicable; depth greater than 200 feet	0.000005
3-mile mixing zone in quiet flowing river	10 cfs or greater	0.5

**SI TABLE 13 (HRS TABLE 4-23):  
SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS VALUES**

<b>SENSITIVE ENVIRONMENT</b>	<b>ASSIGNED VALUE</b>
Critical habitat for Federal designated endangered or threatened species Marine Sanctuary National Park Designated Federal Wilderness Area Ecologically important areas identified under the Coastal Zone Wilderness Act Sensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean Water Act Critical Areas identified under the Clean Lakes Program of the Clean Water Act (subareas in lakes or entire small lakes) National Monument (air pathway only) National Seashore Recreation Area National Lakeshore Recreation Area	100
Habitat known to be used by Federal designated or proposed endangered or threatened species National Preserve National or State Wildlife Refuge Unit of Coastal Barrier Resources System Coastal Barrier (undeveloped) Federal land designated for the protection of natural ecosystems Administratively Proposed Federal Wilderness Area Spawning areas critical for the maintenance of fish/shellfish species within a river system, bay, or estuary Migratory pathways and feeding areas critical for the maintenance of anadromous fish species within river reaches or areas in lakes or coastal tidal waters in which the fish spend extended periods of time Terrestrial areas utilized by large or dense aggregations of vertebrate animals (semi-aquatic foragers) for breeding National river reach designated as recreational	75
Habitat known to be used by State designated endangered or threatened species Habitat known to be used by a species under review as to its Federal endangered or threatened status Coastal Barrier (partially developed) Federally designated Scenic or Wild River	50
State land designated for wildlife or game management State designated Scenic or Wild River State designated Natural Area Particular areas, relatively small in size, important to maintenance of unique biotic communities	25
State designated areas for the protection of maintenance of aquatic life under the Clean Water Act	5
Wetlands	See SI Table 14 (Surface Water Pathway) or SI Table 23 (Air Pathway)

**SI TABLE 14 (HRS TABLE 4-24): SURFACE WATER  
WETLANDS FRONTAGE VALUES**

<b>Total Length of Wetlands</b>	<b>Assigned Value</b>
Less than 0.1 mile	0
0.1 to 1 mile	25
Greater than 1 to 2 miles	50
Greater than 2 to 3 miles	75
Greater than 3 to 4 miles	100
Greater than 4 to 8 miles	150
Greater than 8 to 12 miles	250
Greater than 12 to 16 miles	350
Greater than 16 to 20 miles	450
Greater than 20 miles	500



**SURFACE WATER PATHWAY (concluded)  
WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY**

WASTE CHARACTERISTICS				Score
<b>14.</b> If an Actual Contamination Target (drinking water, human food chain, or environmental threat) exists for the watershed, assign the calculated hazardous waste quantity score, or a score of 100, whichever is greater.				100
<b>15.</b> Assign the highest value from SI Table 7 (observed release) or SI Table 3 (no observed release) for the hazardous substance waste characterization factors below. Multiply each by the surface water hazardous waste quantity score and determine the waste characteristics score for each threat.				
	Substance Value	HWQ	Product	WC Score (from Table) (Maximum of 100)
Drinking Water Threat Toxicity/Persistence	10,000 x	100 -	1E+06	32
Food Chain Threat Toxicity/Persistence Bioaccumulation	5,000 x	100 -	5E+05	18
Environmental Threat Ecotoxicity/Persistence/ Ecobioaccumulation	0 x	100 -	0	0

Product	WC Score
0	0
>0 to <10	1
10 to <100	2
100 to <1,000	3
1,000 to <10,000	8
10,000 to <1E + 05	10
1E + 05 to <1E + 06	18
1E + 06 to <1E + 07	32
1E + 07 to <1E + 08	58
1E + 08 to <1E + 09	100
1E + 09 to <1E + 10	180
1E + 10 to <1E + 11	320
1E + 11 to <1E + 12	580
1E + 12 or greater	1000

max 100

1000

1000

**SURFACE WATER PATHWAY THREAT SCORES**

Threat	Likelihood of Release (LR) Score	Targets (T) Score	Pathway Waste Characteristics (WC) Score (determined above)	Threat Score $\frac{LR \times T \times WC}{82,500}$
Drinking Water	550	5	32	(maximum of 100) 1.07
Human Food Chain	550	65	18	(maximum of 100) 7.80
Environmental	550	15.55	0	(maximum of 80) 0

**SURFACE WATER PATHWAY SCORE  
(Drinking Water Threat + Human Food Chain Threat + Environmental Threat)**

(maximum of 100)

8.87

## **SOIL EXPOSURE PATHWAY**

If there is no observed contamination (e.g., ground water plume with no known surface source), do not evaluate the soil exposure pathway. Discuss evidence for no soil exposure pathway.

### **Soil Exposure Resident Population Targets Summary**

For each property (duplicate page 35 as necessary):

- \* If there is an area of observed contamination on the property and within 200 feet of a residence, school, or day care center, enter on Table 15 each hazardous substance by sample ID. Record the detected concentration. Obtain cancer risk, and reference dose concentrations from SCDM. Sum the cancer risk and reference dose percentages for the substances listed. If cancer risk or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate the residents and students as Level I. If both percentages are less than 100% or all are N/A, evaluate the targets as Level II.

**SI TABLE 15: SOIL EXPOSURE RESIDENT POPULATION TARGETS**

Residence ID: ON-SITE WORKERS Level I ☒ Level II ☐ Population 10 ESTIMATED

Sample ID	Hazardous Substance	Conc. (mg/kg)	Cancer Risk Concentration	% of Cancer Risk Conc.	mg/kg/day RfD	% of RfD	Toxicity Value	References
HW9120	total PCBs	38	.083 mg/kg		2.0E-05		10,000	12,30,62
Highest Percent					Sum of Percents		Sum of Percents	

Residence ID: \_\_\_\_\_ Level I ☐ Level II ☐ Population \_\_\_\_\_

Sample ID	Hazardous Substance	Conc. (mg/kg)	Cancer Risk Concentration	% of Cancer Risk Conc.	RfD	% of RfD	Toxicity Value	References
Highest Percent					Sum of Percents		Sum of Percents	

Residence ID: \_\_\_\_\_ Level I ☐ Level II ☐ Population \_\_\_\_\_

Sample ID	Hazardous Substance	Conc. (mg/kg)	Cancer Risk Concentration	% of Cancer Risk Conc.	RfD	% of RfD	Toxicity Value	References
Highest Percent					Sum of Percents		Sum of Percents	

C-35



# SOIL EXPOSURE PATHWAY WORKSHEET RESIDENT POPULATION THREAT

## LIKELIHOOD OF EXPOSURE

	Score	Data Type	Rets
1. OBSERVED CONTAMINATION: If evidence indicates presence of observed contamination (depth of 2 feet or less), assign a score of 550; otherwise, assign a 0. Note that a likelihood of exposure score of 0 results in a soil exposure pathway score of 0.	550		12,30
LE =	550		

## TARGETS

<p>2. RESIDENT POPULATION: Determine the number of people occupying residences or attending school or day care on or within 200 feet of areas of observed contamination (HRS section 5.1.3).</p> <p>Level I: <u>10</u> people x 10 = <u>100</u>  Level II: _____ people x 1 = _____</p> <p>Sum = <u>100</u></p>			12,30												
<p>3. RESIDENT INDIVIDUAL: Assign a score of 50 if any Level I resident population exists. Assign a score of 45 if there are Level II targets but no Level I targets. If no resident population exists (i.e., no Level I or Level II targets), assign 0 (HRS Section 5.1.3).</p>	50		12,30												
<p>4. WORKERS: Assign a score from the table below for the total number of workers at the site and nearby facilities with areas of observed contamination associated with the site.</p> <table border="1"> <thead> <tr> <th>Number of Workers</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>1 to 100</td> <td>5</td> </tr> <tr> <td>101 to 1,000</td> <td>10</td> </tr> <tr> <td>&gt;1,000</td> <td>15</td> </tr> </tbody> </table>	Number of Workers	Score	0	0	1 to 100	5	101 to 1,000	10	>1,000	15	5		12		
Number of Workers	Score														
0	0														
1 to 100	5														
101 to 1,000	10														
>1,000	15														
<p>5. TERRESTRIAL SENSITIVE ENVIRONMENTS: Assign a value for each terrestrial sensitive environment (SI Table 16) in an area of observed contamination.</p> <table border="1"> <thead> <tr> <th>Terrestrial Sensitive Environment Type</th> <th>Value</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> <p>Sum = <u>0</u></p>	Terrestrial Sensitive Environment Type	Value													12
Terrestrial Sensitive Environment Type	Value														
<p>6. RESOURCES: Assign a score of 5 if any one or more of the following resources is present on an area of observed contamination at the site; assign 0 if none applies.</p> <ul style="list-style-type: none"> <li>• Commercial agriculture</li> <li>• Commercial silviculture</li> <li>• Commercial livestock production or commercial livestock grazing</li> </ul>	0		12,30												
Total of Targets T=	155														

**SI TABLE 16 (HRS TABLE 5-5): SOIL EXPOSURE PATHWAY  
TERRESTRIAL SENSITIVE ENVIRONMENT VALUES**

<b>TERRESTRIAL SENSITIVE ENVIRONMENT</b>	<b>ASSIGNED VALUE</b>
Terrestrial critical habitat for Federal designated endangered or threatened species National Park Designated Federal Wilderness Area National Monument	100
Terrestrial habitat known to be used by Federal designated or proposed threatened or endangered species National Preserve (terrestrial) National or State terrestrial Wildlife Refuge Federal land designated for protection of natural ecosystems Administratively proposed Federal Wilderness Area Terrestrial areas utilized by large or dense aggregations of animals (vertebrate species) for breeding	75
Terrestrial habitat used by State designated endangered or threatened species Terrestrial habitat used by species under review for Federal designated endangered or threatened status	50
State lands designated for wildlife or game management State designated Natural Areas Particular areas, relatively small in size, important to maintenance of unique biotic communities	25

# SOIL EXPOSURE PATHWAY WORKSHEET NEARBY POPULATION THREAT

LIKELIHOOD OF EXPOSURE		Score	Data Type	Ref.
7. Attractiveness/Accessibility (from SI Table 17 or HRS Table 5-6)	Value <u>75</u>			3,12
Area of Contamination (from SI Table 18 or HRS Table 5-7)	Value <u>80</u>			3,5,12
Likelihood of Exposure (from SI Table 19 or HRS Table 5-8)				30
LE =		<u>375</u>		

TARGETS		Score	Data Type	Ref.
8. Assign a score of 0 if Level I or Level II resident individual has been evaluated or if no individuals live within 1/4 mile travel distance of an area of observed contamination. Assign a score of 1 if nearby population is within 1/4 mile travel distance and no Level I or Level II resident population has been evaluated.		<u>0</u>		12,30
9. Determine the population within 1 mile travel distance that is not exposed to a hazardous substance from the site (i.e., properties that are not determined to be Level I or Level II); record the population for each distance category in SI Table 20 (HRS Table 5-10). Sum the population values and multiply by 0.1.		<u>0.33</u>		3,35
T =		<u>0.33</u>		

**SI TABLE 17 (HRS TABLE 5-6):  
ATTRACTIVENESS/ACCESSIBILITY VALUES**

Area of Observed Contamination	Assigned Value
Designated recreational area	100
Regularly used for public recreation (for example, vacant lots in urban area)	75
Accessible and unique recreational area (for example, vacant lots in urban area)	75
Moderately accessible (may have some access improvements—for example, gravel road) with some public recreation use	50
Slightly accessible (for example, extremely rural area with no road improvement) with some public recreation use	25
Accessible with no public recreation use	10
Surrounded by maintained fence or combination of maintained fence and natural barriers	5
Physically inaccessible to public, with no evidence of public recreation use	0

**SI TABLE 18 (HRS TABLE 5-7): AREA OF CONTAMINATION FACTOR VALUES**

Total area of the areas of observed contamination (square feet)	Assigned Value
≤ to 5,000	5
> 5,000 to 125,000	20
> 125,000 to 250,000	40
> 250,000 to 375,000	60
> 375,000 to 500,000	80
> 500,000	100

SI TABLE 19 (HRS TABLE 5-8): NEARBY POPULATION LIKELIHOOD OF EXPOSURE FACTOR VALUES

AREA OF CONTAMINATION FACTOR VALUE	ATTRACTIVENESS/ACCESSIBILITY FACTOR VALUE						
	100	75	50	25	10	5	0
100	500	500	375	250	125	50	0
80	500	375	250	125	50	25	0
60	375	250	125	50	25	5	0
40	250	125	50	25	5	5	0
20	125	50	25	5	5	5	0
5	50	25	5	5	5	5	0

SI TABLE 20 (HRS TABLE 5-10): DISTANCE-WEIGHTED POPULATION VALUES FOR NEARBY POPULATION THREAT

Travel Distance Category (miles)	Pop.	Number of people within the travel distance category												Pop. Value
		0	1 to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,001	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	
Greater than 0 to $\frac{1}{4}$	2	0	0.1	0.4	1.0	4	13	41	130	408	1,303	4,081	13,034	0.1
Greater than $\frac{1}{4}$ to $\frac{1}{2}$	15	0	0.05	0.2	0.7	2	7	20	65	204	652	2,041	6,517	0.2
Greater than $\frac{1}{2}$ to 1	508	0	0.02	0.1	0.3	1	3	10	33	102	326	1,020	3,258	3.0
Reference(s) <u>3,35</u> Sum = <u>3.3</u>														

# SOIL EXPOSURE PATHWAY WORKSHEET (concluded)

## WASTE CHARACTERISTICS

10. Assign the hazardous waste quantity score calculated for soil exposure	1
11. Assign the highest toxicity value from SI Table 16	10,000
12. Multiply the toxicity and hazardous waste quantity scores. Assign the Waste Characteristics score from the table below:	WC = 10

Product	WC Score
0	0
>0 to <10	1
10 to <100	2
100 to <1,000	3
1,000 to <10,000	6
10,000 to <1E + 05	10
1E + 05 to <1E + 06	18
1E + 06 to <1E + 07	32
1E + 07 to <1E + 08	56
1E + 08 or greater	100

## RESIDENT POPULATION THREAT SCORE:

(Likelihood of Exposure, Question 1;  
Targets = Sum of Questions 2, 3, 4, 5, 6)

$\frac{LE \times T \times WC}{82,500}$

10.34

## NEARBY POPULATION THREAT SCORE:

(Likelihood of Exposure, Question 7;  
Targets = Sum of Questions 8, 9)

$\frac{LE \times T \times WC}{82,500}$

0.02

## SOIL EXPOSURE PATHWAY SCORE:

Resident Population Threat + Nearby Population Threat

10.36

(Maximum of 100)

$$\text{Resident Pop.} = \frac{(550)(155)(10)}{82,500} \approx 10.34$$

$$\text{Nearby Pop.} = \frac{(375)(0.33)(10)}{82,500} = 0.015 \approx 0.02$$

## **AIR PATHWAY**

### **Air Pathway Observed Substances Summary Table**

On SI Table 21, list the hazardous substances detected in air samples of a release from the site. Include only those substances with concentrations significantly greater than background levels. Obtain benchmark, cancer risk, and reference dose concentrations from SCDM. For NAAQS/NESHAPS benchmarks, determine the highest percentage of benchmark obtained for any substance. For cancer risk and reference dose, sum the percentages for the substances listed. If benchmark, cancer risk, or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage or the percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate targets in the distance category from which the sample was taken and any closer distance categories as Level I. If the percentages are less than 100% or all are N/A, evaluate targets in that distance category and any closer distance categories that are not Level I as Level II.

**SI TABLE 21: AIR PATHWAY OBSERVED RELEASE SUBSTANCES**

Sample ID: \_\_\_\_\_ Level I \_\_\_\_\_ Level II \_\_\_\_\_ Distance from Sources (mi) \_\_\_\_\_ References \_\_\_\_\_

Hazardous Substance	Conc. ( $\mu\text{g}/\text{m}^3$ )	Gaseous Particulate	Benchmark Conc. (NAAQS or NESHAPS)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RfD	% of RfD
Highest Toxicity/Mobility			Highest Percent		Sum of Percents		Sum of Percents	

Sample ID: \_\_\_\_\_ Level I \_\_\_\_\_ Level II \_\_\_\_\_ Distance from Sources (mi) \_\_\_\_\_ References \_\_\_\_\_

Hazardous Substance	Conc. ( $\mu\text{g}/\text{m}^3$ )	Toxicity/Mobility	Benchmark Conc. (NAAQS or NESHAPS)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RfD	% of RfD
Highest Toxicity/Mobility			Highest Percent		Sum of Percents		Sum of Percents	

Sample ID: \_\_\_\_\_ Level I \_\_\_\_\_ Level II \_\_\_\_\_ Distance from Sources (mi) \_\_\_\_\_ References \_\_\_\_\_

Hazardous Substance	Conc. ( $\mu\text{g}/\text{m}^3$ )	Toxicity/Mobility	Benchmark Conc. (NAAQS or NESHAPS)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RfD	% of RfD
Highest Toxicity/Mobility			Highest Percent		Sum of Percents		Sum of Percents	

C-43



# AIR PATHWAY WORKSHEET

LIKELIHOOD OF RELEASE	Score	Data Type	Refs
1. OBSERVED RELEASE: If sampling data or direct observation support a release to air, assign a score of 550. Record observed release substances on SI Table 21.			
2. POTENTIAL TO RELEASE: If sampling data do not support a release to air, assign a score of 500. Optionally, evaluate air migration gaseous and particulate potential to release (HRS Section 6.1.2).	500		12,30
LR =		500	

## TARGETS

3. ACTUAL CONTAMINATION POPULATION: Determine the number of people within the target distance limit subject to exposure from a release of a hazardous substance to the air.  a) Level I: _____ people x 10 = _____ b) Level II: _____ people x 1 = _____      Total =	0		12,30																		
4. POTENTIAL TARGET POPULATION: Determine the number of people within the target distance limit not subject to exposure from a release of a hazardous substance to the air, and assign the total population score from SI Table 22. Sum the values and multiply the sum by 0.1.	2.66		3,35																		
5. NEAREST INDIVIDUAL: Assign a score of 50 if there are any Level I targets. Assign a score of 45 if there are Level II targets but no Level I targets. If no Actual Contamination Population exists, assign the Nearest Individual score from SI Table 22.	20		3,35																		
6. ACTUAL CONTAMINATION SENSITIVE ENVIRONMENTS: Sum the sensitive environment values (SI Table 13) and wetland acreage values (SI Table 23) for environments subject to exposure from the release of a hazardous substance to the air.  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sensitive Environment Type</th> <th style="text-align: center;">Value</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr> <th style="text-align: left;">Wetland Acreage</th> <th style="text-align: center;">Value</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	Sensitive Environment Type	Value									Wetland Acreage	Value							0		12,30
Sensitive Environment Type	Value																				
Wetland Acreage	Value																				
7. POTENTIAL CONTAMINATION SENSITIVE ENVIRONMENTS: Use SI Table 24 to evaluate sensitive environments not subject to exposure from a release.	3.94		3,12, 56																		
8. RESOURCES: Assign a score of 5 if one or more air resources apply within 1/2 mile of a source; assign a 0 if none applies. • Commercial agriculture • Commercial silviculture • Major or designated recreation area	5		3,12																		
T =		31.60																			

**SI TABLE 22 (From HRS TABLE 6-17): VALUES FOR POTENTIAL CONTAMINATION AIR TARGET POPULATIONS**

C-45

Distance from Site	Pop.	Nearest Individual (choose highest)	Number of People within the Distance Category												Pop. Value	
			1 to 10	11 to 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	1,000,000 to 3,000,000		
On a source	10	20	4	17	53	164	522	1,633	5,214	16,325	52,137	163,246	521,360	1,632,455	4	
0 to $\frac{1}{4}$ mile	12	*	1	4	13	41	131	408	1,304	4,081	13,034	40,812	130,340	408,114	4	
$> \frac{1}{4}$ to $\frac{1}{2}$ mile	15	2	0.2	0.9	3	9	28	88	282	882	2,815	8,815	28,153	88,153	0.9	
$> \frac{1}{2}$ to 1 mile	508	1	0.06	0.3	0.9	3	8	26	83	261	834	2,612	8,342	26,119	8	
$> 1$ to 2 miles	2119	0	0.02	0.09	0.3	0.8	3	8	27	83	266	833	2,659	8,326	8	
$> 2$ to 3 miles	512	0	0.009	0.04	0.1	0.4	1	4	12	38	120	375	1,199	3,755	1	
$> 3$ to 4 miles	533	0	0.005	0.02	0.07	0.2	0.7	2	7	28	73	229	730	2,285	0.7	
Nearest Individual =		20													Sum =	26.6
															multiply by .1	

References

35

\* Score = 20 if the Nearest Individual is within  $\frac{1}{8}$  mile of a source; score = 7 if the Nearest Individual is between  $\frac{1}{8}$  and  $\frac{1}{4}$  mile of a source.

SI TABLE 23 (HRS TABLE 6-18): AIR PATHWAY VALUES FOR WETLAND AREA

Wetland Area	Assigned Value
< 1 acre	0
1 to 50 acres	25
> 50 to 100 acres	75
> 100 to 150 acres	125
> 150 to 200 acres	175
> 200 to 300 acres	250
> 300 to 400 acres	350
> 400 to 500 acres	450
> 500 acres	500

SI TABLE 24: DISTANCE WEIGHTS AND CALCULATIONS FOR AIR PATHWAY POTENTIAL CONTAMINATION SENSITIVE ENVIRONMENTS

Distance	Distance Weight	Sensitive Environment Type and Value (from SI Tables 13 and 20)	Product
On a Source	0.10	x N/A	
		x	
0 to 1/4 mile	0.025	x N/A	
		x	
		x	
1/4 to 1/2 mile	0.0054	x > 500 ACRES WETLAND (500)	2.70
		x	
		x	
1/2 to 1 mile	0.0016	x > 500 ACRES WETLAND (500)	0.80
		x	
		x	
1 to 2 miles	0.0005	x > 500 ACRES WETLAND (500)	0.25
		x	
		x	
2 to 3 miles	0.00023	x > 500 ACRES WETLAND (500)	0.12
		x	
		x	
3 to 4 miles	0.00014	x > 500 ACRES WETLAND (500)	0.07
		x	
		x	
> 4 miles	0	x N/A	
Total Environments Score =			3.94

## AIR PATHWAY (concluded)

### WASTE CHARACTERISTICS

<p>9. If any Actual Contamination Targets exist for the air pathway, assign the calculated hazardous waste quantity score or a score of 100, whichever is greater; if there are no Actual Contamination Targets for the air pathway, assign the calculated HWC score for sources available to air migration.</p>	1																						
<p>10. Assign the highest air toxicity/mobility value from SI Table 21.</p>	200																						
<p>11. Multiply the air pathway toxicity/mobility and hazardous waste quantity scores. Assign the Waste Characteristics score from the table below:</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Product</th> <th style="text-align: left; padding: 2px;">WC Score</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td></tr> <tr><td>&gt;0 to &lt;10</td><td>1</td></tr> <tr><td>10 to &lt;100</td><td>2</td></tr> <tr><td>100 to &lt;1,000</td><td>3</td></tr> <tr><td>1,000 to &lt; 10,000</td><td>6</td></tr> <tr><td>10,000 to &lt;1E + 05</td><td>10</td></tr> <tr><td>1E + 05 to &lt;1E + 06</td><td>18</td></tr> <tr><td>1E + 06 to &lt;1E + 07</td><td>32</td></tr> <tr><td>1E + 07 to &lt;1E + 08</td><td>56</td></tr> <tr><td>1E + 08 or greater</td><td>100</td></tr> </tbody> </table>	Product	WC Score	0	0	>0 to <10	1	10 to <100	2	100 to <1,000	3	1,000 to < 10,000	6	10,000 to <1E + 05	10	1E + 05 to <1E + 06	18	1E + 06 to <1E + 07	32	1E + 07 to <1E + 08	56	1E + 08 or greater	100	WC = 3
Product	WC Score																						
0	0																						
>0 to <10	1																						
10 to <100	2																						
100 to <1,000	3																						
1,000 to < 10,000	6																						
10,000 to <1E + 05	10																						
1E + 05 to <1E + 06	18																						
1E + 06 to <1E + 07	32																						
1E + 07 to <1E + 08	56																						
1E + 08 or greater	100																						

**AIR PATHWAY SCORE:**

$$\frac{LE \times T \times WC}{82,500}$$

0.57

(maximum of 100)

$$\frac{(500)(31.60)(3)}{82,500} = 0.5745 \approx 0.57$$

SITE SCORE CALCULATION		S	S <sup>2</sup>
GROUND WATER PATHWAY SCORE (S <sub>GW</sub> )		3.3	10.89
SURFACE WATER PATHWAY SCORE (S <sub>sw</sub> )		8.87	78.68
SOIL EXPOSURE (S <sub>s</sub> )		10.36	107.33
AIR PATHWAY SCORE (S <sub>A</sub> )		0.57	0.32
SITE SCORE $\sqrt{\frac{S_{GW}^2 + S_{sw}^2 + S_s^2 + S_A^2}{4}}$			7.02

#### COMMENTS

An SI performed under the auspices of CERCLA has been completed for the Vantran Electric Corporation Site located in Louisville, Jefferson County, Georgia. Based upon available information concerning current conditions at the site, professional judgment and parameters set forth in Appendix A of 40 CFR Part 300 (i.e., The Hazardous Ranking System), the groundwater, surface water and air exposure pathways are determined to be of minimal concern at this time (Refs. 3, 12, 30, 33 - 47, 54 & 56 - 62). The soil exposure pathway is of some concern at this time (3, 12 & 30).

The groundwater pathway is of minimal concern due to the lack of a substantial on-site waste quantity, the lack of any known contaminated public or private wells and the relatively low number of potential groundwater targets in the area (Refs. 12 & 34 - 46). The surface water pathway is of minimal concern due to a lack of a substantial on-site waste quantity, the lack of any drinking water intakes in the area, Calcium is neither toxic nor persistent in the aquatic environment and Calcium is not considered to adversely affect aquatic sensitive environments (Refs. 12, 30, 36 & 62). The air pathway is of minimal concern due to the lack of a substantial on-site waste quantity and a relatively low population in the area (Refs. 12, 30 & 35).

The soil pathway is of some concern due to the fact that individuals work within 200 feet of confirmed soil contamination considered attributable to on-site operation (Refs. 3, 12 & 30). Analytical results of Surface Soil Sample Nos. HW9119 thru HW9123 confirm the presence of total PCBs (concentrations ranging from 2.6 to 38 mg/kg) in on-site surface soil at levels exceeding that set forth in Appendix I of the Georgia Rules for Hazardous Site Response (i.e., 1.55 mg/kg), (Refs. 30 & 31). Additionally, PCBs were detected within Overland Run-Off Route No. 1 on private property located immediately west of the site.

In conclusion, the Vantran Electric Corporation site located in Louisville, Jefferson County, Georgia is not recommended as a candidate for the National Priority List (NPL), nor is continued site evaluation under the HRS warranted at this time.