SITE INSPECTION NARRATIVE REPORT
BROCKWAY STANDARD INC.
HIGHWAY 84 WEST
HOMERVILLE, CLINCH COUNTY, GEORGIA
EPA ID# GAD~~004060968~~
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NI Phase SI
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1.0 INTRODUCTION

Under authority of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Environmental Protection Division (EPD), Hazardous Waste Management Branch conducted a Site Investigation (SI) at Brockway Standard Inc., Clinch County, Georgia. The purpose of this investigation was to collect information concerning conditions at the Brockway Standard site sufficient to assess the threat posed to human health and the environment and to determine the need for additional investigation under CERCLA or other authority, and, if appropriate, support site evaluation using the Hazard Ranking System (HRS) for proposal to the National Priorities List (NPL). The investigation included reviewing available file information, sampling environmental media to test preliminary assessment (PA) (Reference 1) hypotheses and to evaluate and document HRS factors, on- and off-site reconnaissance, and a comprehensive target survey.

2.0 SITE DESCRIPTION

2.1 Location

The site is located in north-central Clinch County in southeastern Georgia (Fig. 1). The site is located off of Highway 84 approximately three quarters of a mile west of the City of Homerville, Georgia (Reference 2). The geographical coordinates are 31°01'45" north latitude and 82°46'25" west longitude (Reference 3) and is located on the *Homerville West, Georgia United States Geologic* Survey (U.S.G.S.) 7.5 minute Topographic Quadrangle Map (Fig. 2)(Plate 1 Appendix I)(Reference 4).

The regional climate of the site is generally mild to hot with humid summers and cool winters. A review of thirty year average temperatures yields an average daily temperature of 81 degrees Fahrenheit during the summer months (Reference 1). Extreme high temperatures during the summer months can reach above 100 degrees, while extreme low temperatures during the winter months have historically been recorded near 0 degrees (Reference 1). The average annual precipitation is 52 inches (Reference 5).

2.2 Site Description

The site occupies approximately 116 acres and has been owned and operated by Brockway since 1989. The site is located about three-quarters of a mile west of the City of Homerville, which is thirty-five (35) miles northeast of Valdosta, Georgia. The site is an active Resource Conservation and Recovery Act (RCRA) large quantity generator of hazardous waste. The facility does not have a Hazardous Waste Facility Permit. Facility operations are conducted in one of two production buildings which are both enclosed by a fence or partial fence: a large Assembly Building located south of Highway 84 is enclosed by a partial fence which is incomplete along the southern facility boundary where railroad tracks enter the facility property, and the Lithograph Building located north of Highway 84, which is completely fenced (Reference 3). A Materials Warehouse is connected to the east side of the Assembly Building. The assembly building/warehouse is bordered on the east by a pecan tree orchard. The Lithograph Building is bordered to the east by a cow pasture (Reference 2). A large pond into which the facility discharges waste water is located immediately west of the Assembly Building. A rinsewater/sludge pond, small ponds, and extensive wetlands exist immediately south and west of both

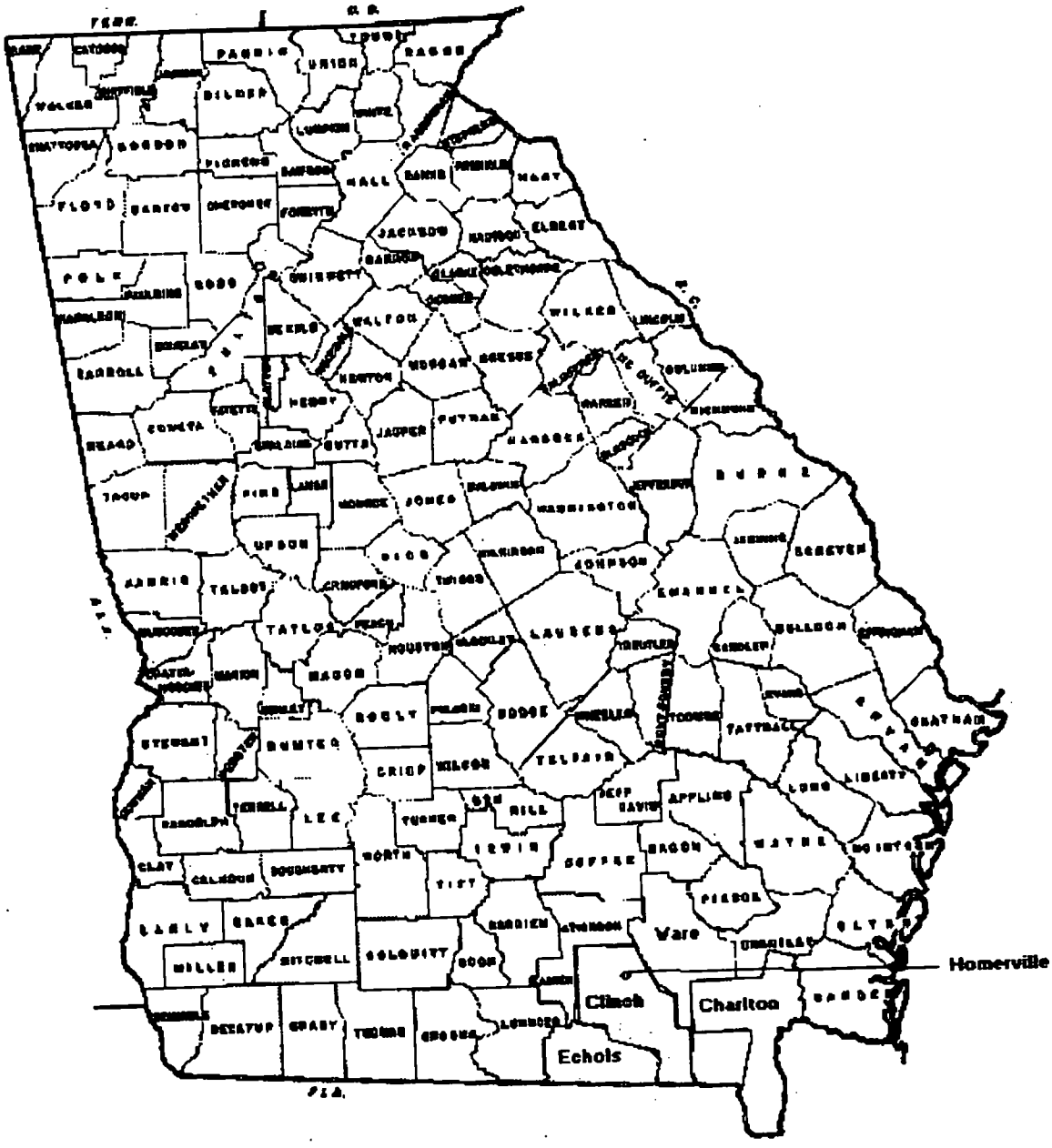

Figure 1. Location of Clinch County and Homerville, Georgia

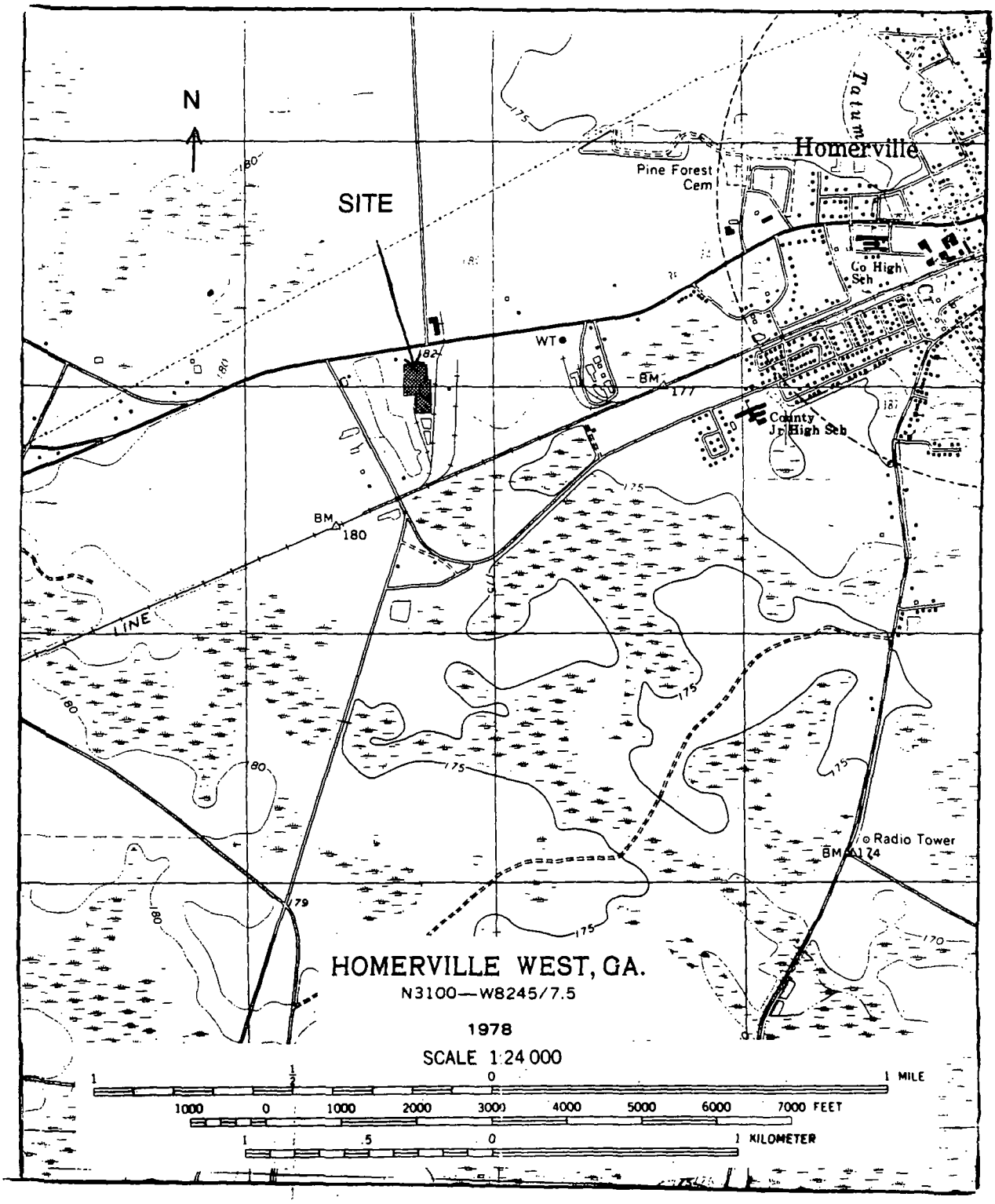

Figure 2. Location of Brockway-Standard Plant

the production buildings. The nearest residents are located on properties approximately 4/10 of a mile north of the site (Reference 2). Figure 3 illustrates the facility proper and adjacent properties.

2.3 Operational History and Waste Characteristics

Prior to 1957, the land now included in the site was used for farming and timber operations. Operations involving the manufacturing of steel containers began at this site in 1957 under the ownership of Standard Container, Inc. Manufacturing operations have been conducted at the site under various owners since industrial activity commenced at the facility in 1957 (References 1 & 6). Prior to the current ownership, Owens Illinois operated a metal and plastic container manufacturing plant at the facility. In 1989, Brockway became Brockway-Standard, Inc. The facility has been owned and operated by Brockway-Standard since that time. The facility currently manufactures various sized steel containers and ammunition boxes. Manufacturing processes primarily consist of metal cutting, shaping, soldering, screen printing, and the packaging and shipping of finished products (Reference 1). Chemical products currently used or previously used and degradation products detected at the facility include: vinyl chloride, 1,1-dichloroethene, 1,1-dichloroethane, 1,1,1-trichloroethane, lead, chromium, arsenic, barium, nickel, cadmium, methyl ethyl ketone, isophorone, naphthalene, toluene, acetone, tetrachloroethylene, ethylbenzene, xylene, 1,2-dichloroethane, 1,1,2-trichloroethane, zinc, selenium, copper, methylene chloride, and cis/trans 1,2-dichloroethene (References 2,6,7,8,9). Table 1 provides the toxicity, mobility, and bioaccumulation data for these constituents (Reference 10).

As documented by the site specific environmental inspections conducted by EPD, the manufacturing activities generate hazardous waste, including but not limited to spent solvents, lithographic paint wastes, metals, and mixed solvent wastes (References 2 and 7).

Previous investigations conducted at the site indentified that surface soil, groundwater, surface water, and sediment have been contaminated as a result of manufacturing operations (References 8 and 9). The sources identified at the site are: (1) Lithographic Building Drum Cleanout Area; (2) Rinsewater/Sludge Pond; (3) Hazardous Wastes/Hazardous Materials Storage Areas; (4) NPDES Discharge Area from Assembly Building (Reference 2)(Fig. 4). Descriptions of these source areas follow:

2.3.1 Lithographic Building Drum Cleanout Area

The Drum Cleanout Area (Photos #1 and #2, Appendix IV) consists of approximately sixty-six (66) square yards of soil. Chemical solvent and hydrocarbon constituents have been detected in soils and soil borings in this area. Past practices involved the cleanout of waste/chemical drums onto the ground surface. Fifty-three (53) square yards of impacted soils have been excavated to a depth of three (3) inches. The remaining thirteen (13) square yards have not been fully addressed. The area, while fenced from the general public, is not specifically fenced off to prevent workers from being exposed to any remaining contaminated soils.

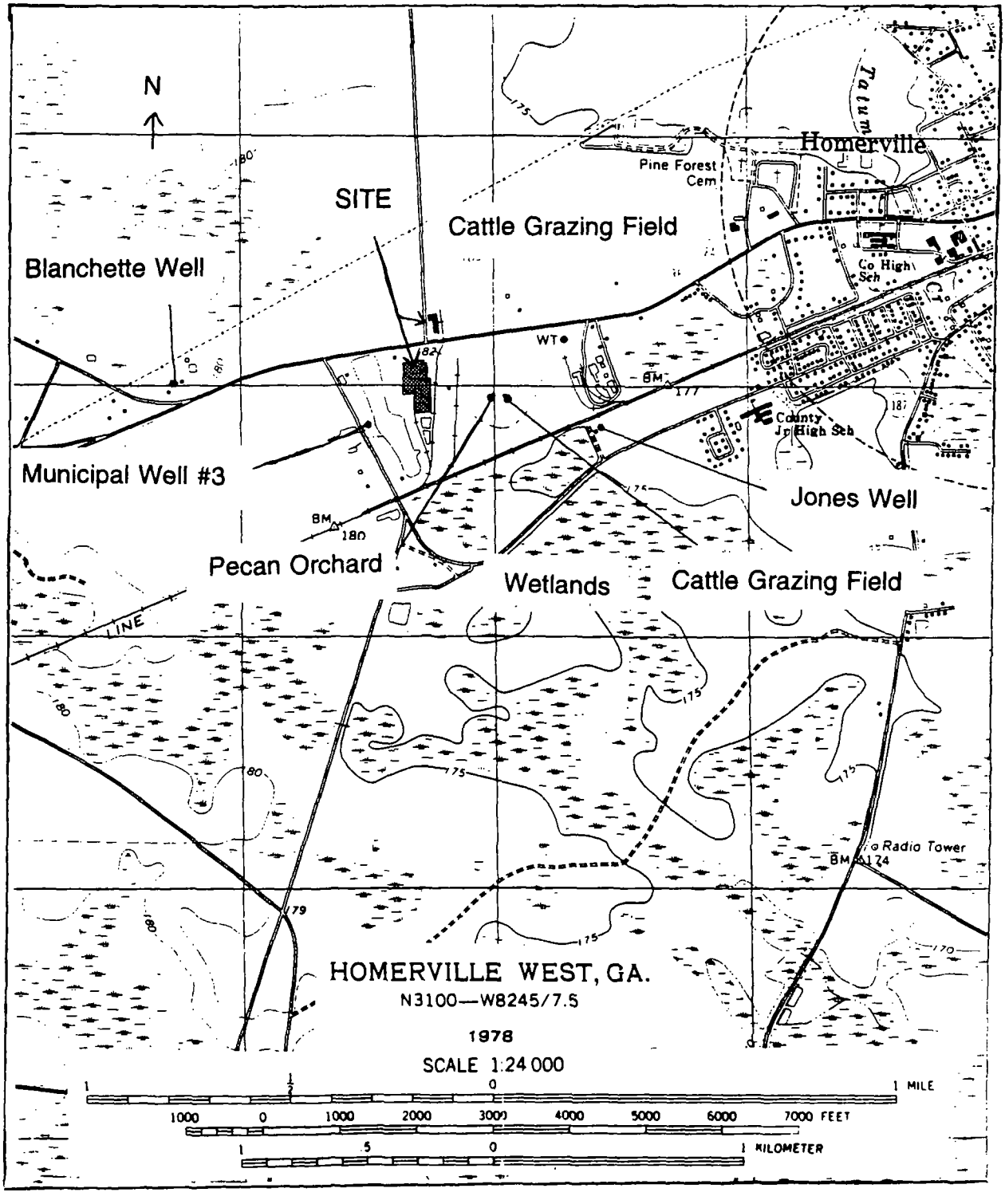

Figure 3. Brockway Standard Site Map

Site Name: Brockway Standard

References: SCDM, Hawley Condensed Chemical Dictionary

Sources:

1. Lithographic Bldg. Drum Cleanout Area (contaminated soil)
2. Area of Rinsewater/Sludge Pond
3. Hazardous Waste/Hazardous Materials Storage Areas
4. NPDES Discharge Area (Located from Assembly Building south to property boundary)

SOURCE	HAZARDOUS SUBSTANCE	TOXICITY	GROUND WATER PATHWAY		SURFACE WATER PATHWAY										
					OVERLAND/FLOOD MIGRATION							GROUND WATER TO SURFACE WATER			
			GW Mobility (HRS Table 3-8)	Tox/ Mobility Value (HRS Table 3-9)	Per (HRS Tables 4-10 and 4-11)	Tox/Per Value (HRS Table 4-12)	Bioac Pot. (HRS Table 4-15)	Tox/pers/ Bioac Value (HRS Table 4-16)	Ecotox (HRS Table 4-19)	Ecotox/ Pers (HRS Table 4-20)	Ecotox/ Pers/ Bioac Value (HRS Table 4-21)	Tox/Mob/ Pers Value (HRS Table 4-26)	Tox/ Mob/ Pers/ Bioac Value (HRS Table 4-28)	Ecotox/ Mob/Pers Value (HRS Table 4-29)	Ecotox/ Mob/Per/ Bioac Value (HRS Table 4-30)
3	Vinyl Chloride	10000	0.01	100.00	7.00e-04	7.0	5.0	35.0	-	-	-	7.00e-02	0.35	-	-
3	Dichloroethene, 1,1-	100	0.01	1.00	0.4	40.0	50.0	2.00e+03	10	4.00	200.00	4.00e-01	2.00e+02	0.04	2.00
3	Dichloroethane, 1,1-	10	1	10.00	0.4	4.0	5.0	20	-	-	-	4.00	20.00	-	-
3	Trichloroethane, 1,1,1-	1	0.01	0.01	0.4	0.40	5.0	2.00	10	4.00	20.00	4.00e-03	.02	0.04	0.20
3	Trichloroethene	10	0.01	0.10	0.4	4.00	50.0	200	100	40.00	2.00e+03	0.04	2.00	0.40	20.00
2,4	Lead	10000	2.00e-05	0.5	1.0	10,000	5000.0	5.00e+07	1000	1.00e+03	5.00e+06	0.5	2.50e+03	0.05	250
2,4	Chromium	10000	0.01	100.00	1.0	10,000	5.0	5.00e+04	10000	1.00e+03	5.00e+04	100.00	500.00	100	500
2,4	Arsenic	10000	0.01	100.00	1.0	10,000	5.0	5.00e+04	10	10.00	50.00	100.00	500.00	0.10	0.50
2,4	Barium	10000	0.01	100.00	1.0	10,000	0.5	5.00e+3	1	1.00	0.50	100.00	50.00	0.01	5.00e-03

Table 1. Chemical Constituent Toxicity, Mobility, Bioaccumulation Data

SOURCE	HAZARDOUS SUBSTANCE	TOXICITY	GROUND WATER PATHWAY		SURFACE WATER PATHWAY										
					OVERLAND/FLOOD MIGRATION							GROUND WATER TO SURFACE WATER			
			GW Mobility (HRS Table 3-8)	Tox/ Mobility Value (HRS Table 3-9)	Per (HRS Tables 4-10 and 4-11)	Tox/Per Value (HRS Table 4-12)	Bioac Pot. (HRS Table 4-15)	Tox/pers/ Bioac Value (HRS Table 4-16)	Ecotox (HRS Table 4-19)	Ecotox/ Pers (HRS Table 4-20)	Ecotox/Pers/ Bioac Value (HRS Table 4-21)	Tox/ Mob/ Pers Value (HRS Table 4-26)	Tox/Mob/ Pers/ Bioac Value (HRS Table 4-28)	Ecotox/ Mob/ Pers Value (HRS Table 4-29)	Ecotox/ Mob/ Per/ Bioac Value (HRS Table 4-30)
Unknown	Nickel	100	.01	1.00	1	100.00	.5	50.00	10	10.00	5.00	1.00	0.50	0.10	0.05
2	Cadmium	10000	1	10,000	1	10,000	5000	5.00e+07	1000	1,000	5.00e+6	10000	5.00e+07	10000	5.00e+07
1,3	Methyl Ethyl Ketone	10	1	10.00	.4	4.0000	.5	2.00	1	0.40	0.20	4.00	2.00	0.40	0.20
1	Isophorone	10	1	10.00	1	10.0000	5	50.00	1	1.00	5.00	10.00	50.00	10.00	50.00
1	Naphthalene	1	.01	0.01	.4	.4	500	200.00	1000	400.00	2.00e+04	0.004	2.00	0.004	2.00
3	Toluene	10	.01	0.10	.4	4.0000	50	200.00	100	40.00	2,000.00	0.04	2.00	0.40	20.00
3	Acetone	10	1	10.00	.0007	0.0070	.5	0.00	100	0.07	0.04	0.01	0.01	0.07	0.04
3	Tetrachloroethylene	100	.01	1.00	.4	40.0000	50	2,000.00	100	40.00	2,000.00	0.40	20.00	0.40	20.00
1	Ethylbenzene	10	.01	0.10	.4	4.0000	50	200.00	100	40.00	2,000.00	0.04	2.00	0.40	20.00
1	Xylenes	1	.01	0.01	.4	0.4000	50	20.00	100	40.00	2,000.00	0.004	0.20	0.40	20.00
3	Dichloroethene, cis-1,2-	100	1	100.00	.4	40.0000	5	200.00	-	-	-	40.00	200.00	-	-
3	Dichoroethane,1,2-	100	1	100.00	.4	40.0000	5	200.00	1	0.40	2.00	40.00	200.00	0.40	2.00
3	Trichloroethane,1,1,2-	1000	.01	10.00	.4	400.0	50	20,000.00	10	4.00	200.00	4.00	200.00	0.04	2.00

Table 1. Chemical Constituent Toxicity, Mobility, Bioaccumulation Data

SOURCE	HAZARDOUS SUBSTANCE	TOXICITY	GROUND WATER PATHWAY		SURFACE WATER PATHWAY										
					OVERLAND/FLOOD MIGRATION							GROUND WATER TO SURFACE WATER			
			GW Mobility (HRS Table 3-8)	Tox/ Mobility Value (HRS Table 3-9)	Per (HRS Tables 4-10 and 4-11)	Tox/Per Value (HRS Table 4-12)	Bioac Pot. (HRS Table 4-15)	Tox/pers/ Bioac Value (HRS Table 4-16)	Ecotox (HRS Table 4-19)	Ecotox/ Pers (HRS Table 4-20)	Ecotox/Pers/ Bioac Value (HRS Table 4-21)	Tox/Mob/ Pers Value (HRS Table 4-26)	Tox/Mob/ Pers/ Bioac Value (HRS Table 4-28)	Ecotox / Mob/Pers Value (HRS Table 4-29)	Ecotox/ Mob/Per/ Bioac Value (HRS Table 4-30)
3	Dichloroethene, trans 1,2-	100	.1	100.00	.4	40.00	50	2.00e+03	1	0.40	20.00	40.00	2.00e+03	40.00	2.00e+03
2?,4?	Zinc	10	.01	0.10	1.0	10.00	500	5.00e+03	10	10.00	5.00e+03	0.10	50.00	0.10	50.00
2	Selenium	100	.01	1.00	1.0	100.00	5,00e+03	5.00e+05	100	100.00	5.00e+05	1.00	5.00e+03	1.00	5.00e+3
2?,4?	Copper	-	.01	-	1.0	-	50,000	-	100	100.00	5.00e+06	-	-	1.00	5.00e+05
3	Methylene Chloride	10	1	10.00	.4	4.00	5	20.00	1	0.40	2.00	4.00	20.00	0.40	2.00

Table 1. Chemical Constituent Toxicity, Mobility, Bioaccumulation Data

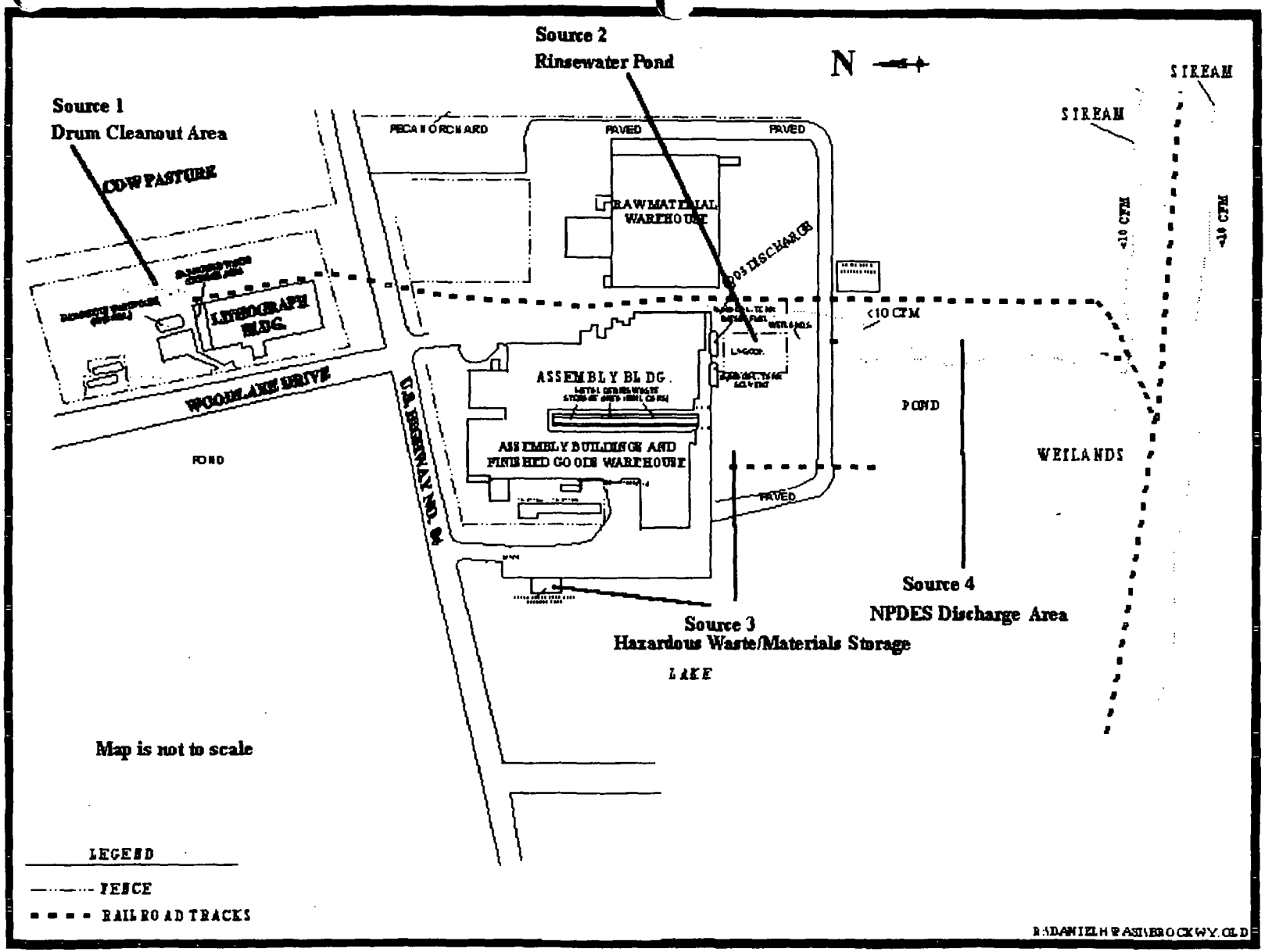

Figure 4. Identified Source Areas at Brockway Standard

2.3.2 Rinsewater/Sludge Pond

This pond (Photos #5 and #6, Appendix IV) was previously constructed for holding metal finishing wastewater and associated sludges. The pond is not known to be lined and measures approximately 125 feet by 125 feet. The depth of the pond is not known; however, it is not expected to be more than 10 feet deep. Surface area only will be used for establishing the waste quantity. Previous sampling of the pond sludge has indicated that arsenic, chromium, cadmium, and lead have been detected.

2.3.3 Hazardous Waste Storage/Hazardous Material Storage Areas

The Hazardous Waste Storage Area (Photos #9 and #10) located west of the Assembly Building has been the site of numerous releases of waste paints, waste solvents, used oils, and solvent products. At the time of the site reconnaissance, approximately sixty-seven (67) 55-gallon containers of hazardous wastes were stored in the Storage Area. An area located just south of the Assembly Building was used in the past of the storage of containers of 1,1,1-trichloroethane. Sampling from these areas during other investigations have indicated releases of solvent, hydrocarbon, and metal constituents.

2.3.4 NPDES Discharge Area

Prior to being issued a NPDES wastewater discharge permit, the facility at the site discharged wastewaters from metal finishing operations to the drainage ditch and to the rinsewater/sludge lagoon. These historical releases appear to have impacted the soils within the drainage ditch [approximately 1,000 feet long and five (5) feet wide] and impacted the wetlands to which the ditch drains. The ditch appears to be about four (4) feet deep. Metals are a primary concern. Previous records at the facility indicate that lead used to be discharged from the facility's operations (References 1,2,6).

3.0 WASTE/SOURCE SAMPLING

3.1 Sample Locations

Four (4) areas were identified as sources for this SI. Various investigations have provided data for evaluating these four (4) sources. These investigations (References 8,9,11) included the following documents:

> Report on Phase II Environmental Investigation at the Brockway Standard Facility, Homerville, Georgia, July 1994 by Golder Associates, Inc.
>
> Report of a Limited Sampling and Testing Program (Law Project #40544-6-7739), June 19, 1996 by Law Engineering and Environmental Services, Inc.
>
> Chemical Report #904792, December 7, 1987 by Law Company.

Table 2 presents a summary of sampling activities locations and analytical results for the identified source areas (Appendix II).

Table 2. Source Sampling Locations, Including Media and Constituents

Source	Sampling Locations	Media	Constituents
Drum Cleanout Area	East of Litho. Bldg	Soil	Methyl ethyl ketone
			Xylene
			Ethyl benzene
Rinsewater/Sludge Pond	Unknown	Sludge/ Soil	Cadmium
			Chromium
			Barium
			Lead
Hazardous Waste/Materials Storage Areas	South and West of Assembly Bldg.	Ground water	Vinyl Chloride
			Chloroethane
			1,1-Dichloroethene
			1,1-Dichloroethane
			1,2-Dichloroethane
			1,1,1-Trichloroethane
			Trichloroethene
			Tetrachloroethylene
			Toluene
			cis-1,2-Dichloroethylene
			Methylene Chloride
			trans-1,2-Dichloroethylene

Table 2 (continued). Source Sampling Locations, Including Media and Constituents

Source	Sampling Locations	Media	Constituents Maximum Detected Levels
NPDES Discharge Area	South of Assembly Bldg.	Sediment	Lead
			Arsenic
			Barium
			Cadmium
			Chromium
			Nickel

Specific locations of sample collections are detailed in Appendix II. Previously obtained and reported samples for soils and the rinsewater/sludge pond sludge (References 8,9,11) were used for evaluating these source areas.

3.2 Analytical Results

Analytical results for the source areas are presented in Table 3. The analyses indicate that releases from these sources have occurred to the sediment, groundwater, and surface water, as well as to the soil.

Table 3. Source Sampling Analytical Results

Source	Sampling Locations	Media	Constituents	Maximum Detected Levels
NPDES Discharge Area	South of Assembly Bldg.	Sediment	Lead	703 mg/kg
			Arsenic	3.85 mg/kg
			Barium	56 mg/kg
			Cadmium	5.72 mg/kg
			Chromium	92.1 mg/kg
			Nickel	71.8 mg/kg

Table 2 (continued). Source Sampling Locations, Including Media and Constituents

Source	Sampling Locations	Media	Constituents	Maximum Detected Levels
Drum Cleanout Area	East of Litho. Bldg	Soil	Methyl ethyl ketone	2.67 ppm
			Xylene	27.4 ppm
			Ethyl benzene	51.4 ppm
Rinsewater/Sludge Pond	Unknown	Sludge/ Soil	Cadmium	3.9 ppm
			Chromium	190 ppm
			Barium	150 ppm
			Lead	230 ppm
Hazardous Waste/Materials Storage Areas	South and West of Assembly Bldg.	Ground water	Vinyl Chloride	8,820 ug/l
			Chloroethane	63 ug/l
			1,1-Dichloroethene	9,840 ug/l
			1,1-Dichloroethane	5,440 ug/l
			1,2-Dichloroethane	408 ug/l
			1,1,1-Trichloroethane	2,670 ug/l
			Trichloroethene	2,940 ug/l
			Tetrachloroethylene	149 ug/l
			Toluene	107 ug/l
			cis-1,2-Dichloroethylene	4,350 ug/l
			Methylene Chloride	81 ug/l
			trans-1,2-Dichloroethylene	59 ug/l

(References 8,9,11)

3.3 Conclusion

Source area samples indicate that contaminants may have been introduced to the soil, surface water, and groundwater. The above mentioned source areas should be evaluated to determine the degree of release, if any, that has occurred from these source areas.

4.0 GROUND WATER PATHWAY

4.1 Hydrogeology

The local hydrostratigraphy consists predominantly of interlayered, unconfined sand and clay water bearing units of variable thicknesses which overlay the limestones of the Floridan Aquifer. The Floridan Aquifer is used as the primary water supply source for high demand users, while the shallow aquifer system is commonly utilized for domestic water usage (Reference 12). Previous investigations indicate that there is no overall confining barrier to local vertical migration of chemicals, at least 40 feet below ground surface, the depth of the drilling conducted on site. Well completion records for the three (3) City of Homerville drinking water supply wells indicate an upper 25 to 75-foot interval of sand, underlain by approximately 50-80 feet of soft blue clay. An additional 30 to 70 feet of sand or sandstone underlays this blue clay. A 60- to 80-foot interval of tight blue marl extends from the base of the sands to approximately 334 feet below surface, which marks the beginning of the limestone. Some sandstone may exist above the limestone (Miocene to Upper Eocene), which exists around 300 to 330 feet below surface. The Floridan Aquifer represents the Deep Aquifer (Reference 13). Three (3) aquifers have been identified: the shallow aquifer at 30 feet, which is not known to provide public water supply; the intermediate aquifer at 50 feet, which does supply public water supply, and the 600-foot aquifer, which also supplies public water supply.

The upper sands of Pliocene-Recent formations provide sufficient groundwater for residential usage. These wells represent groundwater within the shallow aquifer. Monitoring wells located at the facility are primarily completed in the upper sections of the sand units in the shallow aquifer (Reference 8).

The city of Homerville water supply system consists of well #1 (bored, depth unknown), well #2 (drilled to 600', cased to 338', unscreened, yield of 608 gpm, located 200 feet east of the site), and well #3 (bored to depth of 600', cased to 360', unscreened, yield of 800 gpm, located 1000 feet west of site). Annual sampling data from these wells does not indicate contamination has been observed (Reference 14). The city is permitted to withdraw up to 500,000 gpm average monthly withdrawal (Reference 13). Over 95% (.32 mgal/day) of groundwater withdrawn in Clinch County for the purpose of public supply comes from the Homerville Water System, which services 3,500 people (Reference 15). Individual residential wells represent a small percentage of ground water users in the area. Wells are approximately 50' in depth. Mr. Hosea Jones owned a shallow well approximately .5 mile southeast of the site. Completion records were not available. Mr. Blanchette owned a shallow well approximately .5 mile northwest of the site (due west of the portion of the site north of Highway 84). The well is located near a pond. Ms. Blanchette reported the well to be about 50 feet deep (Reference 2).

A production well is located on the property of Brockway Standard. Primary use of the production well is for manufacturing processes only.

4.2 Targets

Table 4 presents the number of people on public and private water sources within 1/4, ½, 1, 2, 3, and 4 miles of the site (Reference 16). The majority of the population within a four-mile radius obtains drinking water from a municipal well (Municipal Well #3) operated by the City of Homerville. Municipal Well #3 is located approximately 1000 feet west of the site and serves approximately 3500 residents living in Homerville and additional surrounding communities outside the city limits. The city's reserve water supply well (Municipal Well #2) is located approximately 200 feet east of the site.

The population served by private drinking water wells within 4, 3, 2, 1, and 1/2 mile(s) from the site is 81, 61, 32, 6, and 2, respectively. The nearest residence (Ms. Blanchette) relying on a private drinking water well resides within 1500 feet northwest (upgradient) of the site. The Blanchette well is located near a pond and was reported to be 50' deep (Reference 2). Mr. Hosea Jones's well (.5 mile southeast) is the closest private residential well downgradient of the site. The Jones and Blanchette wells are located on the site topographic map in Appendix I.

TABLE 4: Private Wells Within a 4-Mile Radius of the Brockway Standard Site.

Radius (miles)	# Drilled Wells	# Dug Wells	# Other Water Sources	Population on Private Wells
0 - .25	0 *	.01	0	0*
.25 -.50	0	0	0	0
.50 - 1	2	0	0	6.41
1 - 2	11.69	1.09	.06	31.66
2 - 3	21.47	2.93	.10	60.99
3 - 4	28.51	4.36	.13	81.44
TOTAL	**64.74**	**8.54**	**.31**	**182.07**

* Homerville Water System Well #3 is located within the 0-.25 mile radius and supplies 3,500 people.

Because the production well on the site is not used for public supply, that well is not considered a target. In addition, no drinking water or irrigation supply wells in the 30-foot aquifer were identified (References 2,8,9,14). Two (2) water supply wells were identified as targets in the 50-foot aquifer (Reference 2). The 600-foot municipal supply well for the city of Homerville was identified as a target (References 1 and 2). The 182 wells that were identified in the CENTRACTS data were understood to be completed in the 50-foot or 600-foot aquifers, since no wells could be located in the 30-foot aquifer (References 2,14,16).

4.3 Sample Locations

Although no targets were identified in the 30-foot aquifer, sample locations from previous investigations are included in Appendix II.

For the 50-foot aquifer, Hosea Jones's well was sampled for the volatile organic compounds (VOCs), semi-volatile organic compounds, and metals.

For the 600-foot aquifer, the Municipal Well #3 operated by the City of Homerville was evaluated. This well is tested by the Department of Natural Resources on a semi-annual basis. Both locations are shown on the topographic map in Appendix I and in Figure 5. The groundwater samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (semi-VOC), and metals.

4.4 Analytical Results

Results from previous investigations (References 8,9) were used to evaluate the 30-foot aquifer. These results are summarized in Table 5 and indicate releases above benchmarks for the respective constituents.

Table 5 - Groundwater Results for 30-foot Aquifer at Brockway Standard

Analyte	Units	MCL	EPDJones 60100	GLD MW3	GLD MW3A	GLD MW7	GLD MW8	GLD MW9	GLD MW10	GLD MW11	GLD MW12
Lead	ug/l	15	1.4	-	-	**90**	**100**	**1230**	**70**	ND	**100**
Antimony		6	-	-	-	-	-	-	-	-	-
Arsenic		50	ND	-	-	-	-	-	-	-	-
Barium		2000	27	-	-	180	110	170	140	120	360
Beryllium		2	-	-	-	-	-	-	-	-	-
Cadmium		5	ND	-	-	-	-	-	-	-	-
Chromium		100	ND	-	-	**130**	70	**170**	90	30	**160**
Cobalt		N	-	-	-	-	-	-	-	-	-
Copper		N	-	-	-	-	-	-	-	-	-
Nickel		100	ND	-	-	-	-	-	-	-	-
Selenium		50	ND	-	-	-	-	-	-	-	-
Silver		N	ND	-	-	-	-	-	-	-	-
Thallium		2	-	-	-	-	-	-	-	-	-
Vanadium		N	-	-	-	90	70	70	90	ND	120
Zinc		N	-	-	-	100	160	230	100	60	130

Table 5 (continued) - Groundwater Results from 30-foot Aquifer at Brockway Standard.

Analyte	Units	MCL	EPDJones 60100	GLD MW3	GLD MW3A	GLD MW8	GLD MW9	GLD MW10	GLD MW11	GLD SG6-10	GLD HP9	GLD HP18	GLD HP20	GLD HP12
vinyl Chloride	ug/l	2	ND	ND	**550**	**35**	**12**	**14**	ND	**8820**	**131**	**724**	ND	ND
chloroethene		N	ND	937	ND	ND	17	11	ND	ND	63	ND	ND	ND
1,1-DCE		7	ND	**101J**	**6210**	**783**	**393**	**307**	**3250**	**9840**	**201**	**140**	ND	ND
1,1-DCA		N	ND	761	1060	118	337	283	199	5440	61	120	ND	ND
1,2-DCA		5	ND	ND	**38J**	ND	3J	3J	**19J**	**408**	**8**	ND	ND	ND
2-butanone		N	ND	ND	496J	ND	ND	ND	ND	ND	ND	ND	1580J	ND
1,1,1-TCA		200	ND	ND	135	ND	28	72	**2670**	**360**	ND	ND	ND	ND
TCE		5	ND	ND	**253**	**153**	**97**	**12**	**639**	**69**	**21**	**2940**	ND	ND
1,1,2-TCA		5	ND	ND	ND	ND	ND	ND	**15J**	**27J**	2J	ND	ND	ND
Benzene		5	ND	**88J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	4J
Tetrachlor.		5	ND	ND	ND	ND	ND	ND	**8J**	**149**	ND	ND	ND	ND
Toluene		1000	ND	522	196	ND	ND	ND	107	99	ND	ND	ND	37
Ethylbenzene		700	ND	167	58J	ND	ND	ND	ND	ND	ND	ND	ND	20
xylenes		10000	ND	7520	2360	ND	9	4J	ND	36J	ND	ND	802	99
cis-1,2-DCE		70	ND	ND	**1530**	60	12	15	**118**	**4350**	**94**	**4320**	ND	ND
Methylene Cl		5	ND	-	-	-	-	-	-	**81**	ND	ND	ND	ND
Trans 1,2-DCE		100	ND	-	-	-	-	-	-	59	ND	12J	ND	ND

Bold - **Level detected exceeds MCL (benchmark)**
ND - Not detected
\- - Not analyzed
N - No MCL

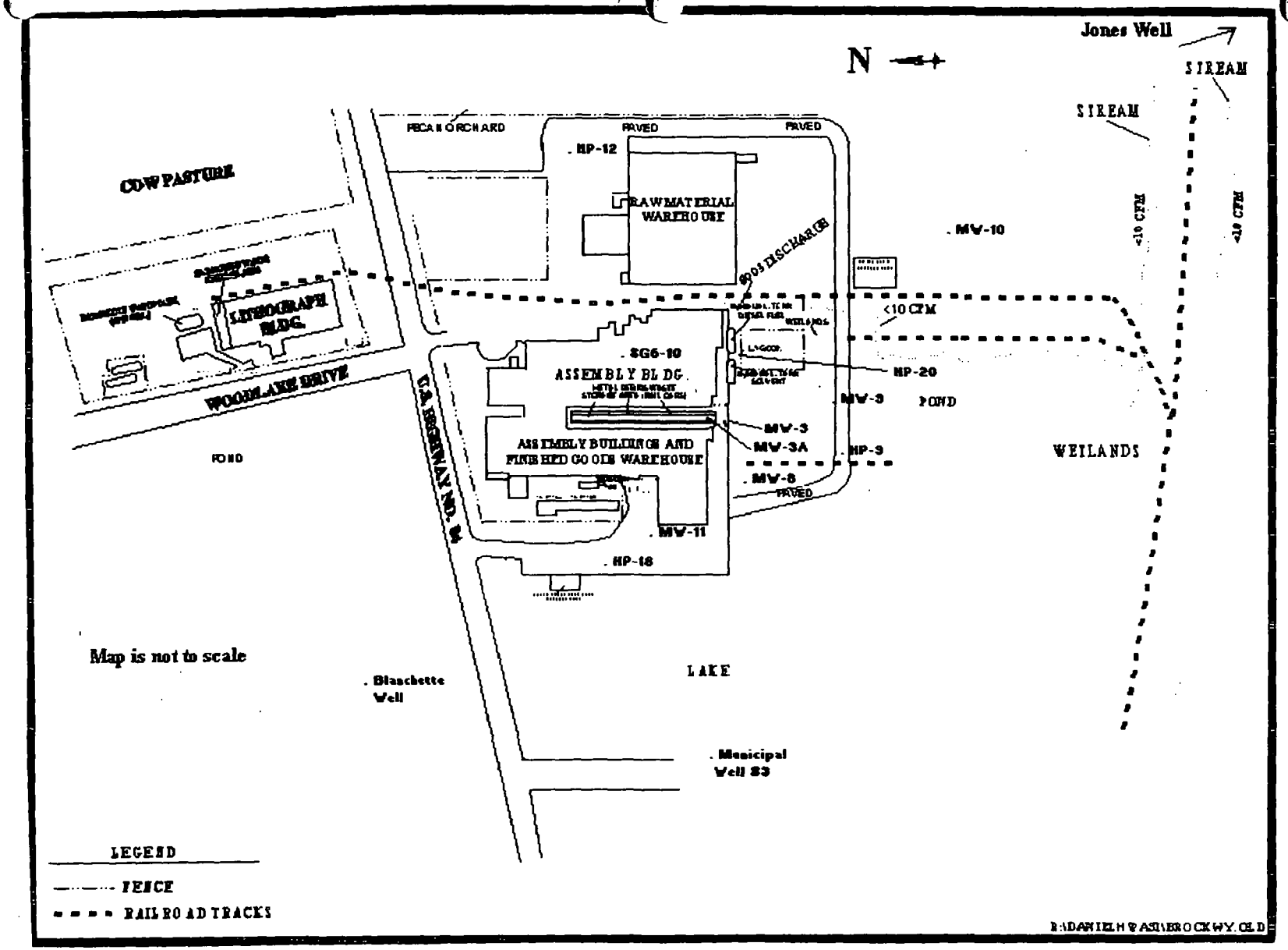

Figure 5. Ground Water Sampling Locations

Sample results from the Hosea Jones well, used to evaluate the 50-foot aquifer, did not indicate detections of constituents originating from the site. Results for Mr. Jones's well can be found in Table 4 and Appendix III and included 1.4 ug/l of lead and 27 ug/l of barium, both much below their respective MCLs for groundwater.

In evaluating the 600-foot aquifer, sampling analysis performed on April 18, 1995 and November 15, 1994 by the Environmental Protection Division for the City of Homerville Municipal Well #3, did not indicate any detections of constituents at or above their respective benchmarks (References 13 and 14) (Appendix II).

4.5 Conclusions

The results of the sampling analysis for the shallow 30-foot aquifer indicate that the shallow groundwater has been impacted by releases at the site at levels above benchmarks.

The results of the sampling analysis for the intermediate 60-foot aquifer indicate that the aquifer does not appear to have been impacted by the site, possibly due to clay confining layers situated below the shallow aquifer.

The results from the sampling analysis for the City of Homerville indicate non-detect for the hazardous substances found in the monitoring wells located at the site. These results indicate that the 600-foot aquifer does not appear to be impacted by the site, possibly because of the great depth at which this aquifer is located.

5.0 SURFACE WATER PATHWAY

5.1 Hydrology

The site is low-lying and predominantly flat with no visible relief. There are no major bodies of water within 15 downstream miles (References 1,2,4). Drainage from the site flows south into an area of wetlands and southwest into a large pond. The pond empties into wetlands associated with Lees Bay. Surface waters within Lees Bay drain south into Sweetwater Creek or Jones Creek. Both creeks flow into Suwanoochee Creek. Jones Creek, the primary pathway for the site, empties into Suwanoochee Creek more than fifteen (15) miles downsteam from the site (References 4 and 17). The surface water pathway is illustrated in Figure 6.

5.2 Surface Water Targets

There are no drinking water intakes located within fifteen (15) miles downstream of the site (References 4,13,17). The majority of area residents obtain drinking water from a municipal well operated by the City of Homerville (Reference 14). Residents not served by the municipal well system obtain drinking water from individual private wells.

Recreational fishing is known to occur in the surrounding waters. Because there are no major bodies of water in the local area, fishing is limited to small creeks and water ditches located in accessible areas (i.e. roadside ditches and lagoons). The aquatic species commonly caught for consumption

include chain pickerel, redfin pickerel, and various sunfish and panfish such as warmmouth, flier, and bluegill (Reference 1).

Extensive wetlands are located adjacent to the site and extend greater than fifteen (15) miles downgradient from the site (References 1,17). During periods of low rainfall regional wetlands remain isolated from one another. However, during periods of high rainfall, regional wetlands are largely interconnected. This condition allows the possibility of surface water migration to extend several miles south into small, yet defined bodies of water such as Jones Creek and Lees Bay (Reference 1).

The range of several Federally designated threatened and endangered species is known to include Clinch County. Clinch County provides habitat for the endangered *Picoides borealis* (Red-Cockaded Woodpecker), the threatened **alligator mississippiensis** (American Alligator), and the Threatened *Drymarchon corais couperi* (Eastern Indigo Snake) (Reference 18). Although observation records maintained by the Georgia Natural Heritage Program (Reference 19) do not indicate an observed presence of any threatened or endangered species near the site, one American Alligator was observed living in the lake. Company officials confirmed the existence of the American Alligator and estimate its size between 8-10 feet (Reference 2).

Although Clinch County also provides habitat for two (2) perennial herbs which have been designated as threatened species: *Sarracenia minor* (Hooded Pitcher Plant) and *Sarracenia flava* (Fly-Catchers or Golden Trumpet)(Reference 20), no observed presence of these plants have been documented near or on the site (Reference 19).

5.3 Sample Locations

Samples were collected in all surface water targets as identified in the PA. The sampling strategy was designed to determine if contamination was released to the wetlands. A surface water (SW-1)(HW60101) and a sediment sample (Sed-1)(HW60102) were taken in the wetlands. A surface water (SW-2)(HW60103) and a sediment (Sed-2)(HW60104) were taken at a location upgradient of the site for establishing background concentrations in the surface water and sediment. The samples were analyzed for volatile organic compounds, semi-volatile organic compounds, and metals. Three (3) sediment samples, S-1, S-2, and S-3, obtained by Law Engineering and Environmental Services in June of 1996, were also used for evaluating the surface water pathway. The samples were taken in the discharge area from the Assembly Building. Locations of the surface water and sediment samples are detailed in Figure 7.

5.4 Analytical Results

The surface water sample (#HW10101) (Appendix III) taken from the wetlands area reported detections above the MDL for barium at 27 ug/l, for chromium at 27 ug/l, and for lead at 140 ug/l. The background sample (#HW60103) (Appendix III) taken in a creek up gradient of the wetlands reported a detection above the MDL for barium at 10 ug/l. The sampling analysis performed at the wetlands indicates that the lead detected at 140 ug/l in the wetlands is above the benchmark of 3.2E+00 ug/l listed in SCDM.

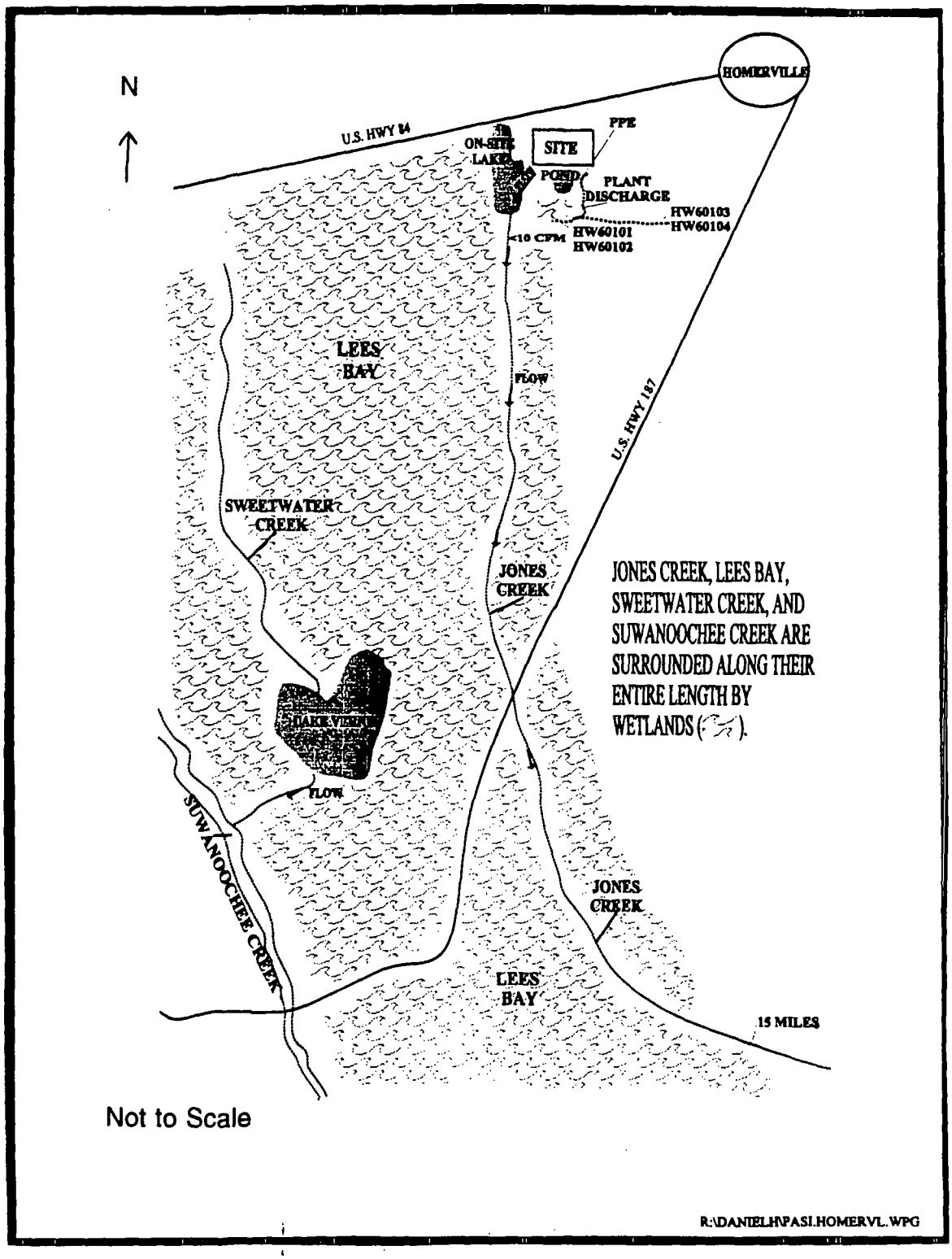

Figure 6. Surface Water Migration Route

The sediment sample (#HW60102) (Appendix III) taken in the wetlands area, at the same location as the surface water sample, reported detections above the MDL for 1,2,4-trimethylbenzene at 22.7 mg/kg, barium at 260 mg/kg, cadmium at 22 mg/kg, chromium at 730 mg/kg, lead at 3200 mg/kg, nickel at 140 mg/kg, and selenium at 5.6 mg/kg. The background sediment sample (#HW60104) (Appendix III) taken up gradient of the wetlands reported detections above the MDL for barium at 9.0 mg/kg, chromium at 12 mg/kg, lead at 5.2 mg/kg, and nickel at 3.5 mg/kg.

Additionally, during an investigation performed by Law Engineering and Environmental Services, Inc in June of 1996 for Brockway, the sediment sampling collection reported detections of 703 mg/kg, 653 mg/kg, and 208 mg/kg for samples S-1, S-2, and S-3 respectively (Reference 9). This report and the sampling analysis performed during this investigation is available in Appendix II. Table 6 summarizes the analytical results for the sediment sampling. Table 7 summarizes the analytical results for the surface water sampling.

Table 6 - Sediment Analytical Results

Analyte	Units	Law S-1	Law S-2	Law S-3	EPDBK 60104	EPD1 60102
Lead	mg/kg	**703**	**653**	**208**	5.2	**3200**
Antimony		3.64	2.81	ND	-	-
Arsenic		**3.85**	2.56	ND	ND	ND
Barium		**51.5**	**56.0**	19.5	9.0	**260**
Beryllium		ND	0.60	0.54	-	-
Cadmium		**5.72**	**3.5**	1.71	ND	**22**
Chromium		**112**	**92.1**	32.6	12	**730**
Cobalt		ND	3.16	0.90	-	-
Copper		41.7	130	363	-	-
Nickel		**51.1**	**71.8**	10.5	3.5	**140**
Selenium		ND	ND	ND	ND	5.6
Silver		ND	ND	ND	ND	ND
Thallium		ND	ND	ND	-	-
Vanadium		2.18	3.41	8.45	-	-
Zinc		1330	1600	240	-	-

Bold - Target levels are above detection limit or 3X background levels.

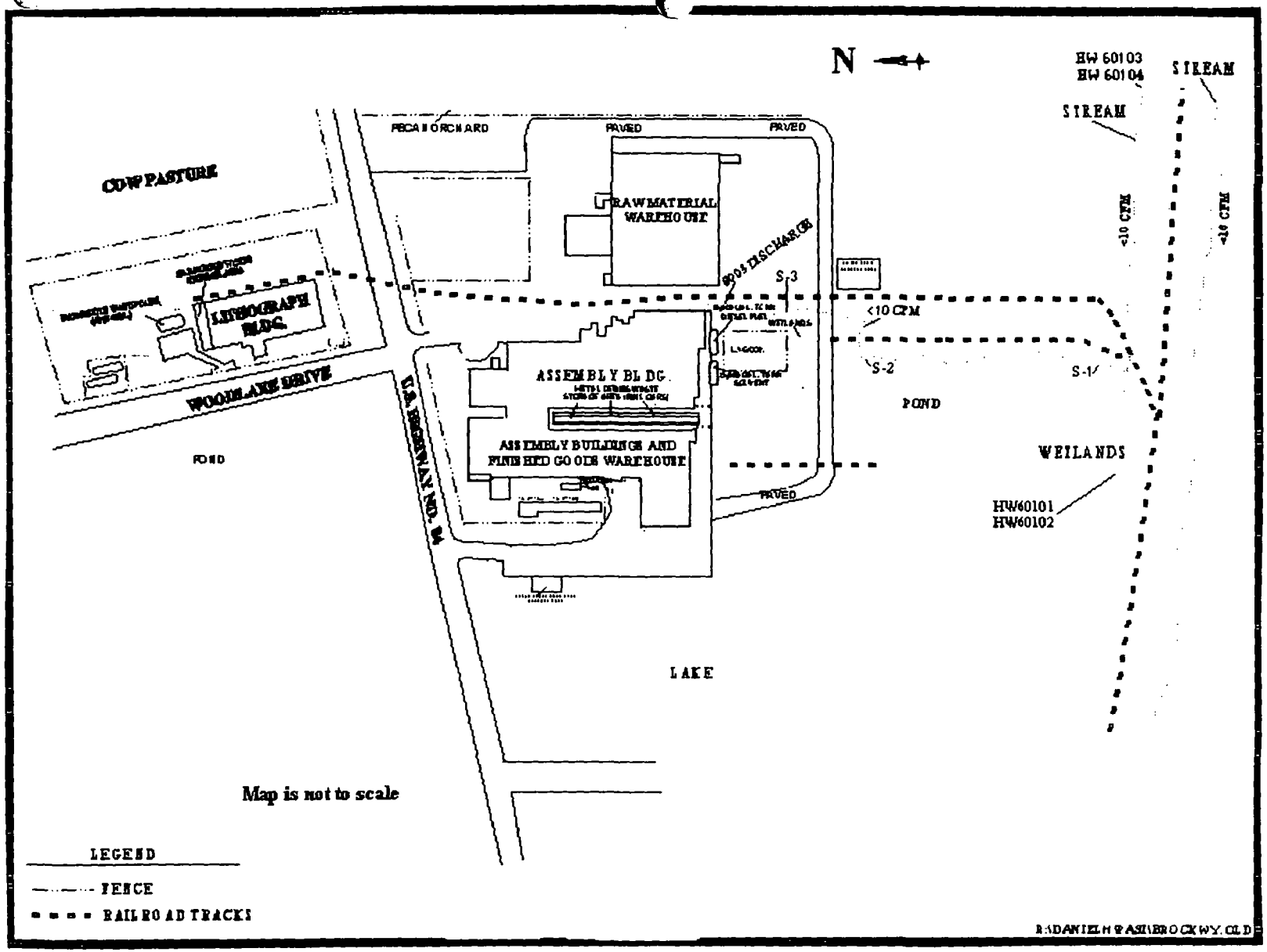

Figure 7. Surface Water/Sediment Sample Locations

Table 7 - Surface Water Analytical Results

Analyte	Units	AWQC	EPDBK 60103	EPD160101
Lead	**ug/l**	**1.3**	**ND**	**140**
Arsenic		50	ND	ND
Barium		N	15	27
Cadmium		.7	ND	ND
Chromium		11	ND	**27**
Nickel		88	ND	ND
Selenium		5	ND	ND
Silver		N	ND	ND

Bold - Target levels are 3X background levels or above AWQC.
N - No AWQC

5.5 Conclusions

It is evident that contaminants from the site have migrated to the wetlands due to the fact that the surface water sample and sediment samples taken along the drainage pathway (ditch) and the wetlands area are substantially elevated when compared to background surface water and sediment concentrations (Reference 9).

6.0 SOIL EXPOSURE AND AIR PATHWAY

6.1 Physical Conditions

The site is currently active. Public access to the site is largely restricted. Natural barriers such as dense vegetation and wetlands restrict entry to the more remote areas of the property which are not fenced. Only access across unfenced areas along railroad tracks at the site's southern boundary is available (Reference 2). Security guards are present after business hours, on holidays, and during weekends at the locked fence gates (References 1 and 2).

6.2 Soil and Air Targets

Brockway employees number approximately 480 on-site workers (References 1 and 2). A house count conducted during the site reconnaissance, coupled with the analysis of 1990 census data indicates approximately 1,903 people reside within a four-mile radius of the site. The nearest residence is approximately 1500 feet northeast of the site. A summary of the population distribution within a four-mile radius of the site is presented in Table 8 (References 1 and 9).

Table 8 - Population Figures for 4-Mile Radius of Brockway Standard

Radius	0-.25	.25-.50	.50-1	1-2	2-3	3-4
Population	36.51	94.66	300.77	516.75	383.87	570.05

The Homerville Middle and Elementary School is located 0.8 miles north of the site on Woodlake Road (Reference 1). September 1996 enrollment statistics indicate 959 students attend Homerville Middle and Elementary School (Reference 21). The school's enrollment is comprised of students in kindergarten through seventh grades.

The range of several Federally designated threatened and endangered species is known to include Clinch County. Clinch County provides habitat for the endangered *Picoides borealis* (Red-Cockaded Woodpecker), the threatened **alligator mississippiensis** (American Alligator), and the Threatened *Drymarchon corais couperi* (Eastern Indigo Snake) (Reference 18). Although observation records maintained by the Georgia Natural Heritage Program (Reference 19) do not indicate an observed presence of any threatened or endangered species near the site, one American Alligator was observed living in the lake. Company officials confirmed the existence of the American Alligator and estimate its size between 8-10 feet (Reference 2).

6.3 Soil Sample Locations

Since previous soil sampling analysis has verified that hazardous compounds are present in the soil, no further soil sampling was required during the SI to determine if there is a release of hazardous compounds to the soil. The "background data" provided in the Phase II Environmental Investigation by Golder Associates Inc. (Reference 8) in July of 1994 provides enough evidence to justify soil contamination from the facility operations. The soil sampling location used for this SI are presented in Figure 1 and are listed below.

Railroad - Sample #3212A-RR02-SB01 at 0.0 - 0.5 feet.
Railroad - Sample #3212A-RR06-SS01 at 0.0 - 0.5 feet

Also two (2) background samples were taken during the Phase II Environmental Investigation. These samples are:

Near Pecan Orchard - Sample #Bgrd 1 at the surface
North of Lake - Sample #Bgrd 2 at the surface

The soil samples taken at the railroad were analyzed for petroleum hydrocarbons, volatile organic compounds, metals, and TCLP parameters. The two background samples were analyzed for target compound list (TCL) metals.

6.4 Soil Analytical Results

The reports and soil analysis for the Phase II Environmental Investigation are provided in Appendix II.

The results of previous environmental investigations revealed the presence of volatile organic compounds (VOCs) in the on-site soils. Elevated levels of metals were also detected in the shallow soils and sediments. The substances regulated by the state of Georgia which have been detected in the on-site soils include but are not limited to the following: chloroethane (2.72 mg/kg), 1,1-Dichloroethane (18.1 mg/kg), methyl ethyl ketone (64.1 mg/kg); 1,1,1-Trichloroethane (21.1 mg/kg), toluene (38.9 mg/kg), and lead 3,300 mg/kg) (Reference 8).

6.5 Air Analytical Results

Although Brockway Standard is permitted to discharge approximately 200 tons of volatile organic compounds (VOCs) to the air per year, there was no indication of a release to the air either by direct observation or by chemical analysis by means of the sources described in this site investigation (References 2 and 22).

6.6 Conclusions

The soil at the site has been impacted by releases from the site. Analytical evidence obtained during previous site assessments indicate elevated levels of VOCs and metals are present in the on-site soils (Reference 8). The large number of facility employees and the threatened species which inhabit the area serve as primary targets.

There is no indication of a release to the air pathway. An unpermitted release to the air is possible though not suspected. During the site reconnaissance, no odors were detected and there was no indication nor observation of contaminated soils being dispersed as the result of windy conditions (Reference 2). The document review does not suggest an unpermitted release to the air has occurred at this site. The air emissions originating from Brockway's manufacturing operations are monitored and permitted by the Georgia Environmental Protection Division, Air Protection Branch (Reference 12).

7.0 SUMMARY AND CONCLUSIONS

The pathways of primary concern are ground water and surface water. It is evident that a release has occurred to the wetlands via the surface water. The surface water and sediment samples taken along the drainage pathway (ditch) and the wetlands area contain high levels of metals (Reference 9). These metals are present throughout the discharge area to the wetlands. The level for lead found in the surface water at the wetlands area in excess of the surface water pathway environmental AWQC/AALAC benchmark found in SCDM. An endangered species, an American alligator, has been reported to live in the wetlands at the site.

The releases to the shallow, non water supply ground water aquifer are documented. The potential for this contamination to enter the 50-foot aquifer exists. Should the contamination in the form of cadmium be able to migrate to the 50-foot aquifer or the 600-foot aquifer, the water supplies may be affected.

The soil is also an area of concern. Analytical evidence obtained during previous investigations indicate elevated levels of VOCs and metals are present in the on-site soils (Reference 9). This pathway is of concern because of the large number of on-site employees and a threatened species.

The rinsewater pond and sludge are a concern. Marginal sampling has been conducted of the sludge. Additional sampling may be critical in scoring this site for groundwater. An ESI may be necessary to evaluate the sludge in the pond.

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APPENDIX I

U.S. EPA REGION IV

SDMS

Unscannable Material Target Sheet

DocID: 10715639 Site ID: GAD984209431

Site Name: Brookway Standard

Nature of Material:

Map:	☑	Computer Disks:	☐
Photos:	☐	CD-ROM:	☐
Blueprints:	☐	Oversized Report:	☐
Slides:	☐	Log Book:	☐

Other (describe): Topographic Quadrangle Map (Appendix 1: Plate 1)

Amount of material:

* Please contact the appropriate Records Center to view the material *

APPENDIX II

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Golder Associates

REPORT ON

ADDITIONAL PHASE II ENVIRONMENTAL INVESTIGATION AT THE BROCKWAY STANDARD FACILITY HOMERVILLE, GEORGIA

July 1994

943-3627

2a.

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1.0 INTRODUCTION

Golder Associates was retained by Brockway Standard, Inc. (Brockway) to follow up on a prior Phase II investigation at the Homerville, Georgia facility (Site). The scope of the project was based on the Golder Associates "Proposal for Additional Phase II Environmental Investigation, Brockway Standard, Homerville, Georgia", dated February 18, 1994. This investigation is described and discussed in this report.

Section 2 presents the background information regarding the scope and conclusions from previous investigations, and information on the nearby drinking water and process water extraction wells. Section 3 presents the methodology used in this additional Phase II investigation and Sections 4 and 5 present the results and conclusions of this investigation. A Site location map and Site layout are shown respectively as Figure 1 and Figure 2.

2.0 BACKGROUND

2.1 Previous Investigations

ENVIRON Corporation of Arlington, Virginia (ENVIRON) conducted a limited Phase II investigation in April 1993 that is described in a report dated May 1993.

ENVIRON's Phase II program consisted of the installation of six groundwater monitoring wells, and collection of soil and sediment samples. The results of the investigation indicated the presence of volatile organic compounds (VOCs) in the groundwater and soils. The Phase II results also indicated the presence of elevated levels of metals, and total petroleum hydrocarbons (TPH) in the shallow soils and sediments, primarily along the railroad spur and around the western ditch system at the facility.

The ENVIRON Phase II investigation was limited to the shallow groundwater and to a limited suite of chemicals and ENVIRON concluded that there was insufficient information available on which to fully evaluate the extent of contamination at the facility.

The data generated in ENVIRON's investigation is included as Appendix A.

In March 1994, (after ENVIRON's investigation, but prior to the Additional Phase II investigation that is the subject of this report) Golder Associates conducted a limited investigation of the pond and production well at the facility. Golder Associates collected surface water and sediment samples from the on-site pond, and a sample from the on-site production well. The data indicated the possible presence of acetone in all the water samples, with bis(2-ethylhexyl)phthalate and 1,1-dichloroethene present below method detection limits in the lake water. Following later sampling and review of laboratory data, Golder Associates concluded that that the acetone results were artifacts of transport and not indicative of acetone in these samples of water collected at the site. The laboratory data sheets for these samples are also included in Appendix A.

2.2 Review of Production Well and Drinking Water Well Information

Golder Associates reviewed information relating to the Production Well at the facility and a nearby municipal well. The Brockway production well and a municipal well (Figure 2) located just to the west of the facility currently extract groundwater from the Ocala Limestone. The wells have a maximum depth of about 600 feet below ground surface (ft BGS). According to facility representatives, the production well was installed about 30 years ago, is used solely for process water, and is roughly 600 feet deep. As mentioned in Section 2.1, Golder Associates analyzed a sample from this well in March 1994. Acetone was the only volatile organic detected. Later sampling indicated that the acetone results were artifacts of sample transport as discussed in section 2.1. The municipal well located just west of the plant is cased to 360 ft BGS. Two water bearing zones have been identified in this well between 398 and 503 ft BGS and between 523 and 533 ft BGS. The water level prior to pumping was 122 ft BGS and is probably protected from local near surface contamination due to confining strata. Treated water (normal treatment by the municipality) from this municipal well has been tested for drinking water parameters by the City of Homerville and was found to be in compliance. In particular, no chlorinated organics, other than those usually associated with the chlorination process (not associated with the site chlorinated solvents) were detected.

3.0 METHODOLOGY

3.1 General

The objectives of the additional Phase II investigation were to:

- Characterize the groundwater flow within the shallow aquifer;
- Further delineate the nature and horizontal and vertical extent of contamination in groundwater, including potential impacts on the "drinking water aquifer"; and
- Locate and delineate the contaminant source areas.

Several techniques were used during the additional Phase II investigation to achieve these objectives. They consisted of installing and sampling additional groundwater monitoring wells, sampling groundwater and soils using a hydraulic probe system, soil gas sampling, and sampling surface water, soils and sediments.

Analysis of groundwater, soils, and soil gas was performed initially with an on-site field gas chromatograph setup to identify some of the chlorinated solvents of concern, specifically tetrachloroethene (PCE), trichloroethene (TCE), both cis- and trans-1,2-dichloroethene (C-DCE and T-DCE), and toluene. Selected samples of the various media were also sent for fixed laboratory analysis at ACL Laboratories, Inc. of Atlanta (ACL). The analyses performed at ACL covered a wider range of tests incorporating the target analyte and target compound lists (TAL and TCL).

Samples were labelled according to their type or method of collection and depth where appropriate as follows:

- MW - groundwater
- HP - hydraulic probe
- SG - soil gas
- VSS - sediment sample
- VSB - surface soil
- DD - surface water

For example, sample HP-1-10 was the first hydraulic probe location sampled at a depth of 10 feet.

Selection of sampling locations generally followed the plan provided in Golder Associates' proposal with sampling locations being refined as appropriate based on results obtained in the field. All sampling, well installation, and other activities were conducted in general accordance with the U.S. EPA Region IV Standard Operating Procedures.

3.2 Decontamination

Decontamination of all sampling equipment and materials used during the investigation was conducted to minimize the potential for contributing contamination to the environment, and to minimize the potential for cross-contamination of samples.

Prior to and upon arrival at the Site, the drill rig, augers and drilling all tools were thoroughly cleaned using a portable steam cleaner. Rinsing and steam cleaning was also completed prior to moving to each new monitoring well location. Also, between sampling operations, the split-spoon samplers were decontaminated using the procedures outlined below.

1. Wash with a solution of non-ionic detergent (Alconox®) ;
2. Rinse with steam/water;
3. Rinse with distilled water;
4. Air dry; and
5. Wrap with aluminum foil (if not to be used immediately).

Probes, drilling equipment and tools which contacted the soil or were placed into borings or probe holes were washed with a solution of non-ionic detergent and thoroughly steam cleaned between uses. All drilling equipment placed over the borehole locations was free of petroleum-based lubricants. Water generated during decontamination activities was collected and discharged into the plant wastewater treatment facility.

3.3 Soil Boreholes and Monitoring Wells

Seven soil boreholes were made at the locations indicated on Figure 2 and converted into new monitoring wells (MW-3A, and MW-7 through MW-12) .

Drilling for the boreholes was performed using hollow stem augers. Soil sampling was performed utilizing a split-spoon sampler driven ahead of the auger drill bit following the methodology of Standard Penetration Test (ASTM D-1586) procedures. All drilling, logging and sampling activities were monitored and documented by experienced Golder Associates field personnel. The field personnel were responsible for observing, logging, collecting, and properly labeling samples as they were removed from the ground, as well as supervising all field activities.

New monitoring wells MW-7 through MW-12 and MW-3A were constructed of two-inch diameter PVC well materials and have ten-foot screens. Specific installation depths of each monitoring well were dependent on the occurrence of clay units. Boring and well logs are included as Appendix B.

Monitoring wells were constructed using a graded silica sand pack at the screened interval. The annular space above the sand pack was filled with three to four feet of bentonite pellets, then grouted to about the surface with a cement/bentonite grout, which will serve as a borehole seal. The top six to 12 inches was fitted with a protective cover and a concrete pad at the ground surface.

The new monitoring wells were developed by a combination of a diaphragm pump, and by manual bailing of the groundwater. Development continued until at least three standing water column volumes were removed, and field measurements of pH, conductivity and temperature indicated stabilization.

Following development, field permeability testing using variable head (slug test) techniques were completed in the new monitoring wells. On-site field personnel were responsible for documentation of all development and slug testing activities. All data was reduced and keyed into a computer format for presentation, complete with hydraulic conductivity calculations and variable head test plots. Data and results of the slug test are

included in Appendix C. Water elevations in all the site monitoring wells were measured using an electronic water level indicator. Well construction details and water elevations are tabulated in Table 3-1.

All new monitoring wells and existing monitoring well MW-3 were sampled for field GC screening and for analysis by ACL. Each well was purged prior to sampling by withdrawing at least three casing volumes of groundwater with a decontaminated stainless steel bailer secured with clean, unused polypropylene rope or a diaphragm pump. The pH, specific conductance, and temperature of the water were measured before and after sampling each well. Sample water was withdrawn from each well using a stainless steel bailer and poured directly into the sample containers. The volatile fraction was collected first. Care was taken while obtaining the volatile fraction to ensure that aeration of the sample was minimized and to ensure that no headspace remained in the vials.

3.4 Soil and Groundwater Sampling Using Hydraulically or Percussion Driven Probes

Subsurface soil and groundwater samples were collected using a hydraulic impact sampling system (Golder Associates' LW Sampler System) or by Bosch percussion drill. Twenty six locations around and underneath the facility building were investigated, labelled HP-1 through HP-20 (installed by LW system), and SG-1 through SG-6 (installed by Bosch percussion system) on Figure 2.

A decontaminated "Kansas sampler" with retractable drive point was attached to a hollow probe rod, which was driven into the ground using the truck mounted hydraulic impact hammer (or inside the building, a hand held hydraulic impact hammer). The sampler was driven to the desired depth, then the drive point was retracted. The sampler was then driven until it became full of soil, then the entire probe was pulled out of the hole. The soil sample was then extruded for examination and analysis. A decontaminated sampler was then reattached to the probe rod, reinserted into the hole, and advanced to the next sampling interval, where the sampling procedure was repeated. Sampling personnel removed soil samples from the sampler while wearing clean, latex gloves.

Groundwater samples were collected from the probe locations using a decontaminated small bore stainless steel bailer which was lowered slowly down through the probe rod

TABLE 3-1
WELL CONSTRUCTION SUMMARY
AND WATER LEVEL ELEVATIONS MEASURED IN APRIL 1994
BROCKWAY STANDARD
HOMERVILLE, GEORGIA

Well	Top of Casing Elevation FT. MSL	Ground Surface Elevation FT. MSL	Well Depth FT.	Well Bottom Elevation FT. MSL	Top of Screened Internal Elevation FT. MSL	Depth to Water FT. BGS	Water Level Elevation FT. MSL
MW-1	176.59	176.77	16.5	160.27	175.27	2.07	174.52
MW-2	180.44	180.58	20	160.58	175.58	4.89	175.55
MW-3	178.18	178.41	17	161.41	176.41	NA	NA
MW-4	176.92	177.16	18	159.16	174.16	2.19	174.73
MW-5	179.49	179.78	17	162.78	177.78	3.58	175.91
MW-6	183.05	180.31	17	163.31	178.31	6.87	176.18
MW-7	179.73	179.79	25.8	153.99	163.99	4.07	175.66
MW-8	179.76	177.16	40	137.16	147.16	5.58	174.18
MW-9	180.18	177.6	29.7	147.9	157.9	5.93	174.25
MW-10	178.98	176.6	25	151.6	161.6	4.83	174.15
MW-11	180.69	178.23	25	153.23	163.23	6.47	174.22
MW-12	178.73	179.23	25	154.23	164.23	2.76	175.97
MW-3A	177.95	178.19	20	158.19	168.19	3.34	174.61

NOTES: FT. MSL = Feet above mean sea level.
FT. BGS = Feet below ground surface.
NA = Not measured due to presence of non aqueous phased liquid.
MW-1 through MW-6 installed in April 1994 by ENVIRON Corporation.
MW-7 through MW-12 and MW-3A installed in April 1994 by Golder Associates.

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in order to minimize aeration. The bailer was secured with a clean, polypropylene cord. Sampling personnel wore new clean, disposable powderless latex gloves at each sample location and depth.

3.5 Surface Water Sampling

Three surface water samples were collected. Sampling locations were from a production water discharge point prior to entry to the sewer system (DD-1), the lagoon, and the lake. Samples were collected at each location by dipping the sample container into the surface water and allowing the water to slowly enter the neck of each container.

3.6 Soil Gas Survey

A soil gas survey was performed at six locations beneath the main facility building. Those locations are marked SG-1 through SG-6 on Figure 2.

The soil gas sampling train consisted of a steel probe with a drive point and slotted end section, a sampling pump, a tedlar bag, and polyethylene tubing to connect the probe with the other parts. A small diameter hole (two inches or less) was drilled through the concrete floor in the plant building to a depth of between 6 and 12 inches beneath the floor surface. The probes were then sealed in the facility floor surface using bentonite paste to restrict air flow through the annular space, which could dilute the samples. High density polyethylene (HDPE) tubing was used to connect the probe to a total volatiles meter (Microtip) and a Tedlar bag. The Microtip extraction pump was initially used for a short period of time to purge the probe and tubing of air prior to collecting samples. Soil gas representative of the subfloor was considered to be flowing when the total VOC measurement has stabilized. Once this stabilized reading was reached, a Tedlar bag was attached to the tubing and filled with soil gas by evacuating a sealed container containing the tedlar bag. Soil gas samples were analyzed with the field GC.

3.7 Surface Soil/Sediment Sampling

Surface soil (VSB-1 through VSB-8) and sediment (VSS-1 through VSS-5) samples were collected from locations shown on Figure 2. The surface of the ground at each surface soil sampling location was cleared of vegetation, rootmat, grass, leaves, and other debris using a decontaminated steel spoon. Grab samples were then collected from the top six inches of soil with another decontaminated stainless steel spoon or hand auger, depending on the actual location. Sampling personnel wore new, disposable, powderless latex gloves. All soil, water, sediment, and soil gas samples were analyzed using the Photovac 10S70 gas chromatograph, (field GC) equipped with a CPSil-5 capillary column and a 10.6 eV lamp and photoionization detector.

Sediment samples were obtained from drainages, streams, and ponds. The sediment samples were collected using a decontaminated stainless steel spoon.

3.8 Field GC Screening Procedures

Samples were screened in the field using a Photovac 10S70 GC. This instrument has an isothermal column oven and a provision for automatic backflushing, allowing rapid sample turnaround. Samples were analyzed for PCE, TCE, C-DCE, T-DCE, and toluene. Samples were introduced into the field GC by direct injection of the headspace in the sample vial.

The retention times and areas of the chromatographic peaks were compared to the retention times and areas of standards prepared using PCE, TCE, C-DCE, T-DCE, and toluene in order to identify and quantify the samples. The oven temperature was set at about 30 degrees Celsius for all analytical runs. The constituents, as identified by retention time comparison, were quantified using an integrator contained in the instrument. When the known retention time of PCE, the latest elutor, had elapsed during the analysis of an investigative sample, the column was backflushed to remove other, later eluting compounds that may have been retained on the column.

Water samples for field GC analysis were collected directly into 40-ml sample vials. Approximately 15 ml of water was placed in the vial that was then sealed. The vials were

kept at ambient temperature to allow the headspace to equilibrate with the sample. Similarly, approximately ten grams of sample soil were placed in 10 ml HPLC grade water and the soil/water/headspace matrix was allowed to equilibrate prior to analysis. Measured standard solutions of the volatiles of concern were made for the soil and water matrices in a similar way.

3.9 Analytical Laboratory Procedures

Select soil and water samples collected during the investigation were analyzed by ACL Laboratories Inc, of Atlanta using analytical procedures from SW-846, "Test Methods for the Evaluation of Water and Wastewater" and other EPA approved methods. Table 3-2 lists the analytical methods together with preservatives used.

TABLE 3-2
ANALYTICAL METHODS AND PRESERVATIVES USED

ANALYTE	METHOD	PRESERVATIVE
TCL - Volatile Organics	SW-846 Method 8240	HCl for water Ice
TCL - Semi-Volatile Organics	SW-846 Method 8270	Ice
TCL - Pesticides and PCBs	SW-846 Method 8080	Ice
TAL - Metals	TAL Metals	HNO3 for water Ice
Total Petroleum Hydrocarbons	418.1	Ice

Samples collected for analytical laboratory analyses were packed in a cooler with ice and a completed chain-of-custody form and sent by overnight courier to the laboratory.

Quality control procedures for sampling and field analytical operations consisted of collection and analysis of QC samples, calibration of instruments, and analysis of laboratory QC samples.

3.10 Quality Assurance/Quality Control (QA/QC)

The quality assurance/quality control (QA/QC) program for this investigation was instituted to produce data of known quality. These activities provided information regarding the accuracy and precision of field analytical measurements, and the general utility of the data which was produced.

During soil and water sampling, two duplicate samples were collected for analysis by the field GC. One trip blank per shipment, which was prepared by the analytical laboratory, was analyzed for VOCs. Duplicate injections and blank injections on the field GC were performed at least once per day to assess the accuracy and reproducibility of the field GC results.

3.11 Land Survey

After completing drilling operations, the elevation of each monitoring well was determined to an accuracy of ± 0.01 feet while the horizontal location was determined to an accuracy of ± 0.1 feet. The surveying work was completed by Mayes, Sudderth & Etheredge, a licensed surveyor under subcontract to Golder Associates.

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4.0 RESULTS

4.1 Geology / Hydrogeology

4.1.1 Regional Information based on Municipal Well

The hydrostratigraphy of the Site is predominantly interlayered unconfined sand and clay water bearing units, overlying more distinct confined aquifers, which overlay the main drinking water aquifer for Florida, which is termed the Ocala Limestone. The stratigraphy in the vicinity of the site has been taken from the drilling log of the municipal well located immediately west of the plant at an elevation of 180.93 feet. As reported in the drilling log, the first 8 feet is topsoil, then sand to 23 ft BGS. From 23 ft BGS to 73 ft BGS is soft blue clay, then a firm clay to 123 ft BGS, followed by a clay with sand streaks to 203 ft BGS. A blue marl is present from 203 ft BGS to 263 ft BGS, then sandstone to 303 ft BGS. Hard grey limerock is present from 303 ft BGS to 328 ft BGS, followed by shell with mud and sand to 343 feet. From 342 ft BGS to the bottom of the hole at 604 ft BGS are various limestones. Water bearing zones were noted in soft cavernous limerock at a depth between 398 ft BGS and 503 ft BGS, and in soft grey limestone at between 523 feet and 533 feet BGS. A casing was installed to 360 ft BGS and water flowed up the open hole and into the casing to stand at 122 feet BGS. The well was test pumped at 800 gallons per minute for 4 hours which resulted in a drawdown of 15 feet. A pump rated at 500 gallons per minute was then installed with a pumping level of 134 ft BGS.

4.1.2 New Well Boring Descriptions

The following wells were newly installed in the course of Golder Associates' field work:

Boring MW-3A was drilled and completed as monitoring well MW-3A because non-aqueous phase liquids were detected in nearby monitoring well MW-3 during this investigation. During the drilling and logging of MW-3A, a shallow clay layer was detected at a depth of about 4 ft BGS to 9 ft BGS. From a depth of 9 ft BGS to 21 ft BGS, a fine sand grading into a fine gravel was encountered. Monitoring well MW-3A was installed and sealed below the clay layer to isolate the monitoring well from the ground surface and also to provide a slightly deeper monitoring point for detection of potential contamination. MW-3 and MW-3A are about 30 feet apart.

The boring for MW-7 is 26 ft BGS and completed in sand. Water entered the augers during drilling at 21 ft BGS and flowed up the augers to 18 ft BGS suggesting a locally partial confined unit or simply loose sand. Golder Associates advised to continue the boring and screen across this zone. The well was installed in the boring to 25.8 ft BGS with a ten foot screen.

The boring that was to be used for MW-8 was 40 ft BGS and completed 0.1 ft into clay. Golder Associates concluded that a good quality well could not be set in the augers due to running sand. Hence the hole was cemented closed using pressure grouting from the bottom of the hole and a new hole was drilled to 43 ft BGS about 10 feet from the original boring for MW-8. This hole was advanced from 40 ft BGS to 43 ft BGS in clay. The boring was backfilled to 40 ft BGS with sand and a well screen was set between 40.0 ft BGS to 30.0 ft BGS. The presence of sand to 39.9 ft BGS, when contrasted with the presence of clay in the nearby municipal well at a relative depth of 21.8 feet, provides evidence that a shallow clay layer may not be continuous at the site. The shallow clay layer which is present at both MW-3 and MW-3A, was not present at MW-8. MW-8 is about 100 feet to the southwest of MW-3A.

The borings for wells MW-9 through MW-12 were advanced until the soils would likely provide a water bearing unit of at least ten feet, with the bottoms of their screens at least 25 ft BGS. This specification was selected to intercept potentially impacted shallow waters. The basis for the selection of the bottom of the screen depth of 25 ft BGS was the potentiometric gradient derived from the preceding wells. The wells were completed as noted in the well summary table.

In all, thirteen monitoring wells have been constructed at the site. A well construction summary table for the site wells is presented on Table 3-1. Wells MW-1 through MW-6 are between 18 ft BGS and 20 ft BGS. All have 15 foot screens and primarily comprise fill and sandy materials with some clays and silts.

4.1.3 Groundwater Flow

Topographic maps of the area show the ground surface elevation reduces in a southeasterly direction, that the area is surrounded by wetlands, and a lake is adjacent to the west of the Site buildings.

A potentiometric map showing the postulated lateral movement of shallow groundwater at the site and based on measurement of water elevations in the site monitoring wells is included as Figure 3. Shallow groundwater at the Site flows toward the south west at the northern portion of the site. The gradient then flattens and groundwater flows in locally complex paths to the west near the pond, and in any direction from west through south to east at a particular discrete location in the southern portion of the site. However, overall lateral flow at the site is from north to south.

Vertical gradients (downward movement of groundwater) at the site have not been determined at this time, except in the area of MW-3A and MW-8 where there is a downward gradient. The difference in water level is 0.43 feet, which is much greater than would be expected based on the difference between these wells and the lateral gradients noted at the site. The vertical gradient at this location could be caused by the lack of shallow clay at MW-8 compared with MW-3A, and the greater depth (20 feet) of MW-8 compared with MW-3A.

4.1.4 Permeable Zones and Aquitards

The existing wells all have high permeability zones which, when combined with chemistry data, show there is substantial lateral hydraulic continuity across the Site. Examination of the boring logs from the thirteen site wells, to a maximum depth of 40 ft BGS, indicates no continuous low permeability unit to restrict flow of water to depth. However, the log of the municipal well immediately west of the site reports fifty feet of soft blue clay between 23 ft BGS and 73 ft BGS. The pond and the soft blue clay found in the municipal well may act as a hydraulic, and a low permeability barrier respectively, to retard lateral flow of contaminants off-site to the west and possibly south west. No barrier has been postulated to prevent the shallow migration of contaminants to the south or south east.

4.1.5 Hydraulic Conductivity from Slug Test

A simple estimate of the hydraulic conductivity of the shallow soils was made using slug test techniques. The results for wells MW-7 through MW-12 are presented in Appendix C. These show typical ranges as expected for shallow soils in the area. Wells in these soil are likely to yield sustainable flows of water. This data will be used to design any pump test performed if a groundwater extraction remedial solution is ultimately selected for this site.

4.2 Analytical Results

Results of the laboratory analyses are presented in the following discussions. Field GC data and a results summary are included in Appendix D. Laboratory data are included in Appendix E. For ease of reading, the names of many of the chlorinated organic compounds have been abbreviated in the discussion. A list of names and abbreviations follows:

1,1-dichloroethene	11-DCE
1,1-dichloroethane	11-DCA
1,2-dichloroethane	12-DCA
1,1,1-trichloroethane	111-TCA
trichloroethene	TCE
1,1,2-trichloroethane	112-TCA
tetrachloroethene	PCE
cis-1,2-dichloroethene	C-DCE
trans-1,2-dichloroethene	T-DCE

Some comparison of results obtained with the regulatory standards that exist for those media has been shown on the results tables and discussed in the text. In particular, groundwater results have been compared with the federal maximum contaminant levels (MCLs) for drinking water. Soil concentrations have been compared with the Georgia Hazardous Site Response Act Notification Concentrations (NCs). Surface water concentrations have been compared with the Georgia Ambient Surface Water criteria for the protection of aquatic life.

4.2.1 Groundwater Data

Groundwater was collected from:

- The new on-site monitoring wells, MW-3, and the on-site production well with laboratory data reported in Table 4-1; and
- The hydraulic probe and soil gas locations with laboratory data reported in Table 4-2.

4.2.1.1 Monitoring Wells

The above-listed monitoring wells were sampled and analyzed for Superfund Target Compound List Volatile Organic Compounds (TCL VOCs) by SW-846 Method 8240. Upgradient wells MW-7 and MW-12, installed to depths of 25.8 ft BGS and 25.0 ft BGS respectively, both reported no detections of VOCs. Also the on-site production well at a depth of approximately 600 feet BGS reported no detections of VOCs.

MW-3A and MW-8 through MW-11 all reported detections of chlorinated VOCs with the highest concentration in all cases being 11-DCE.

When sampling existing well MW-3, a light non-aqueous phase liquid (LNAPL) was found in the well. The aqueous phase underneath the LNAPL was analyzed by ACL and reported toluene, ethyl benzene and xylene (TEX) all below MCLs and chloroethane (937 ug/l) and 11-DCA (761 ug/l). A new well, MW-3A was installed about 20 feet away, to 20 ft BGS and reported several chlorinated VOCs, primarily 11-DCE (6,210 ug/l), C-DCE (1,530 ug/l), and 11-DCA (1060 ug/l). Other chlorinated VOCs reported in this sample above MCLs included vinyl chloride and TCE.

MW-8, to a depth of 40.0 ft BGS, reported vinyl chloride at 35 ug/l, 11-DCE at 783 ug/l, 11-DCA at 118 ug/l, TCE at 153 ug/l, and C-DCE at 60 ug/l. Monitoring well MW-8 was installed in the vicinity of and downgradient of existing monitoring well MW-3.

Monitoring wells MW-9 and MW-10 were installed in the southern portion of the Site to depths of 29.7 ft BGS and 25.0 ft BGS, respectively. The groundwater sample collected

TABLE 4-1
LABORATORY DETECTIONS FROM WELLS
BROCKWAY STANDARD
HOMERVILLE, GEORGIA

Samples collected April 1994

Compound	MCL	Sample Identification MW-3	MW-3A	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	Prod. Well
TCL VOLATILES (ug/l)										
vinyl chloride	2	ND	550	ND	35	12	14	ND	ND	ND
chloroethane	--	937	ND	ND	ND	17	11	ND	ND	ND
1,1-dichloroethene	7	101 J	6210	ND	783	393	307	3250	ND	ND
1,1-dichloroethane	--	761	1060	ND	118	337	283	199	ND	ND
1,2-dichloroethane	5	ND	38 J	ND	ND	3 J	3 J	19 J	ND	ND
2-butanone	--	ND	496 J	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	200	ND	135	ND	ND	28	72	2670	ND	ND
trichloroethene	5	ND	253	ND	153	97	12	639	ND	ND
1,1,2-trichloroethane	5	ND	ND	ND	ND	ND	ND	15 J	ND	ND
benzene	5	88 J	ND	ND	ND	ND	ND	ND	ND	ND
tetrachloroethene	5	ND	ND	ND	ND	ND	ND	8 J	ND	ND
toluene	1000	522	196	ND	ND	ND	ND	107	ND	ND
ethylbenzene	700	167	58 J	ND	ND	ND	ND	ND	ND	ND
xylenes	10000	7520	2360	ND	ND	9	4 J	ND	ND	ND
cis-1,2-dichloroethene	70	ND	1530	ND	60	12	15	118	ND	ND
TAL METALS (mg/l)										
aluminum	0.05-0.2	NA	NA	128	60.5	38.8	47	23	80.7	NA
barium	2	NA	NA	0.18	0.11	0.17	0.14	0.12	0.36	NA
calcium	--	NA	NA	7.72	6.88	14.1	6.98	5.13	17.4	NA
chromium	0.1	NA	NA	0.13	0.07	0.17	0.09	0.03	0.16	NA
copper	1.3	NA	NA	0.06	ND	0.02	ND	ND	0.04	NA
iron	0.3	NA	NA	23.1	12	19.3	28.9	12	51.1	NA
lead	0.015	NA	NA	0.09	0.1	1.23	0.07	ND	0.1	NA
magnesium	--	NA	NA	5.08	3.24	4.36	4.72	2.6	7.98	NA
manganese	0.05	NA	NA	0.14	0.12	0.15	0.12	0.12	0.72	NA
potassium	--	NA	NA	2.5	6.52	1.9	1.36	1.64	3.4	NA
sodium	--	NA	NA	5.85	57	38.4	0.21	10.9	15.2	NA
vanadium	--	NA	NA	0.09	0.07	0.07	0.09	ND	0.12	NA
zinc	5	NA	NA	0.1	0.16	0.23	0.1	0.06	0.13	NA
TCL SVOCs		NA	NA	ND	ND	NA	ND	ND	ND	NA
TCL Pests/PCBs		NA	NA	NA	ND	NA	ND	ND	ND	NA

Notes: Only detections are reported in this table.
J - indicates a value reported below the detection limit.
-- - indicates that there is no MCL for the compound.
MCL - maximum contaminant level from Federal Drinking Water Regulations
NA - parameter not analyzed for.
ND - not detected.

MW-3 floating layer reported as fuel oil in mineral spirit range.

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from MW-9 reported vinyl chloride at 12 ug/l, chloroethane at 17 ug/l, 11-DCE at 393 ug/l, 11-DCA at 337 ug/l, 111-TCA at 28 ug/l, TCE at 97 ug/l, xylene at 9 ug/l, and C-DCE at 12 ug/l.

The groundwater sample collected from MW-10 reported vinyl chloride at 14 ug/l, chloroethane at 11 ug/l, 11-DCE at 307 ug/l, 11-DCA at 283 ug/l, 111-TCA at 72 ug/l, TCE at 12 ug/l, and C-DCE at 15 ug/l.

The highest concentrations of VOCs were reported in MW-11 where elevated detection limits were required thereby likely masking some of the VOC detections. The groundwater sample collected from MW-11 reported 11-DCE at 3,250 ug/l, 11-DCA at 199 ug/l, 111-TCA at 2670 ug/l, TCE at 639 ug/l, and C-DCE at 118 ug/l. Monitoring well MW-11 was installed to the west of the finished goods warehouse near the lake to a depth of 25.0 ft BGS.

Four of the nine sampled wells were analyzed for pesticides and PCBs and none were detected.

Five of the nine sampled wells had samples collected and analyzed for semi volatile organics and none were detected.

Six of the nine sampled wells had samples collected for TAL metals. Samples were collected unfiltered and the following discussion presents those metals with concentrations reported above the upgradient wells, MW-7 and MW-12. On-site wells MW-10 and MW-11 reported no metals above those reported in the upgradient wells. Monitoring well MW-8 reported potassium at 6.52 mg/l, and zinc at 0.16 mg/l, although these concentrations do not exceed any published MCLs. Monitoring well MW-9 reported chromium at 0.17 mg/l, lead at 1.23 mg/l, sodium at 38.4 mg/l, and zinc at 0.23 mg/l. Both chromium and lead in MW-9 are reported above their MCLs/action levels of 0.1 mg/l and 0.015 mg/l, respectively.

4.2.1.2 Hydraulic/Percussion Probe Locations

Groundwater from nine probe locations was submitted for laboratory analysis for VOCs. A tenth groundwater sample from SG-3 had a globule non-aqueous phase liquid (NAPL) incorporating sediment that flowed like colored lava lamp fluid. This sample was not sent for analysis following a scan for compounds on the field GC when only toluene was reported. Since little noise was observed on the field gas chromatogram, it is likely that this NAPL consists of saturated aliphatic hydrocarbons with a small amount of toluene.

The probe location HP-1 was believed to be in a clean area. A confirmatory probe was installed to a depth of approximately ten ft BGS. A groundwater sample collected from the probe reported no VOCs.

The probe location HP-9 was installed to a depth of approximately ten ft BGS. A groundwater sample reported several VOCs including vinyl chloride at 131 ug/l, chloroethane at 63 ug/l, 11-DCE at 201 ug/l, 11-DCA at 61 ug/l, 12-DCA at 8 ug/l, TCE at 21 ug/l, and C-DCE at 94 ug/l.

The probe location HP-12 was installed between the raw material warehouse and MW-12 to a depth of approximately ten ft BGS. A groundwater sample collected from the probe indicated the presence of low levels (below MCLs) of benzene, toluene, ethylbenzene, and xylenes. No chlorinated VOCs were detected.

The probe locations HP-17 and HP-18 were installed to a depth of ten ft BGS near the western side of the finished goods warehouse. The probe location HP-17 reported 11-DCE at 54 ug/l, 11-DCA at 25 ug/l, and 111-TCA at 7 ug/l. The probe location HP-18 reported vinyl chloride at 724 ug/l, 11-DCE at 140 ug/l, 11-DCA at 120 ug/l, TCE at 2,940 ug/l, and C-DCE at 4,320 ug/l.

The probe location HP-20 was installed just north of the small lagoon to an approximate depth of ten ft BGS. VOCs were not reported above the MCLs, but 2-butanone at 1580 ug/l and toluene at 802 ug/l were detected.

2a.

APPENDIX A

BACKGROUND DATA FROM PRELIMINARY INVESTIGATION

TABLE 4-2
LABORATORY DETECTIONS FROM GROUNDWATER PROBES
BROCKWAY STANDARD
HOMERVILLE, GEORGIA

Samples collected April 1994

		Sample Identification								
Compound	MCL	HP-1	HP-9	HP-12	HP-17	HP-18	HP-20	SG-4-5	SG-5-4	SG-6-10
TCL VOLATILES (ug/l)										
vinyl chloride	2	ND	131	ND	ND	724	ND	7 J	ND	8820
chloroethane	--	ND	63	ND	ND	ND	ND	62	ND	ND
methylene chloride		ND	ND	ND	ND	ND	ND	ND	ND	81
1,1-dichloroethene	7	ND	201	ND	54	140	ND	ND	ND	9840
1,1-dichloroethane	--	ND	61	ND	25	120	ND	ND	ND	5440
trans-1,2-dichloroethene	100	ND	ND	ND	ND	12 J	ND	ND	ND	59
1,2-dichloroethane	5	ND	8	ND	ND	ND	ND	ND	ND	408
2-butanone	--	ND	ND	ND	ND	ND	1580 J	ND	ND	ND
1,1,1-trichloroethane	200	ND	ND	ND	7	ND	ND	ND	ND	360
trichloroethene	5	ND	21	ND	ND	2940	ND	ND	ND	69
1,1,2-trichloroethane	5	ND	2 J	ND	ND	ND	ND	ND	ND	27 J
benzene	5	ND	ND	4 J	ND	ND	ND	ND	4 J	ND
tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	149
toluene	1000	ND	ND	37	ND	ND	ND	ND	4 J	99
ethylbenzene	700	ND	ND	20	ND	ND	ND	ND	40	ND
xylenes	10000	ND	ND	99	ND	ND	802	4 J	423	36 J
cis-1,2-dichloroethene	70	ND	94	ND	ND	4320	ND	ND	ND	4350
TCL Pests/PCBs		NA	ND	NA	NA	NA	NA	NA	NA	NA
Hexane (ug/l)		NA	NA	NA	NA	NA	NA	NA	189	NA
TPH (ug/l)		NA	NA	NA	NA	NA	NA	NA	3400	NA

Notes: Only detections are reported in this table.
J - indicates a value reported below the detection limit.
-- - indicates that there is no MCL for the compound.
MCL - Maximum Contaminant Level from Federal Drinking Water regulations
NA - parameter not analyzed for.
ND - not detected.

FN: 4-2.WK1\943-3627\JAJ

2a.

Groundwater samples collected from SG-4, SG-5, and SG-6 were sent to ACL for analysis for TCL VOCs. Chlorinated VOCs were detected above MCLs in SG-4 and SG-6. SG-4 reported chloroethane at 62 ug/l. SG-6 reported vinyl chloride at 8820 ug/l, methylene chloride at 81 ug/l, 11-DCE at 9840 ug/l, 11-DCA at 5,440 ug/l, T-DCA at 59 ug/l, 12-DCA at 408 ug/l, 111-TCA at 360 ug/l, TCE at 69 ug/l, PCE at 149 ug/l, and C-DCE at 4350 ug/l. Results from SG-5 indicated low levels of benzene, toluene, ethylbenzene, and xylenes, but no chlorinated VOCs.

Probe location HP-9 was also analyzed for pesticides and PCBs with no detections reported.

Probe location SG-5 also reported 189 ug/l hexane and 3,400 ug/l TPH.

4.2.2 Surface Water

Three surface water samples were collected. DD-1 was collected from near a plant cooling water discharge point. Also samples were collected from the on-site lagoon and from in the pond, labelled "LAGOON" and "LAKE2", respectively. The results of these surface water samples are presented in Table 4-3. Sample DD-1 and the sample from the lake were analyzed for VOCs. No detections were reported except for 4 ug/l (below the method detection limit) of 11-DCE in the lake sample. The ambient surface water criteria for 11-DCE is 3.2 ug/l. However, since the reported value was a "J" value, it cannot be legitimately compared to any standard.

Metals were analyzed in the sample from DD-1 and the lagoon. The only metal exceeding the ambient water criteria was zinc. Zinc was present at 0.26 mg/l in DD-1 and at 0.12 mg/l in the lagoon. The ambient surface water criteria for zinc varies between 0.06 mg/l and 0.1 mg/l, depending on hardness.

TABLE 4-3
LABORATORY DETECTIONS FROM SURFACE WATER
BROCKWAY STANDARD
HOMERVILLE, GEORGIA

Samples collected April 1994

	Sample Identification			
Compound	SW	DD-1	LAGOON	LAKE 2
TCL VOLATILES (ug/l)				
1,1-dichloroethene	3.2	ND	NA	4 J
TAL METALS (mg/l)				
aluminum	-	ND	0.83	NA
barium	-	0.03	0.03	NA
calcium	-	35.9	33.2	NA
iron	-	ND	0.8	NA
magnesium	-	14.6	13.6	NA
potassium	-	1.4	1.57	NA
sodium	-	8.12	8.65	NA
zinc	0.06 - 0.1	0.26	0.12	NA

Notes: Only detections are reported in this table.
J - indicates a value reported below the detection limit.
-- - indicates that there is no MCL for the compound.
SW - Surface Water Criteria - GA Water Quality Regulations Instream Criteria (metals concentrations criteria very with total hardness)
NA - parameter not analyzed for.
ND - not detected.

FN: 4-3.WK1\943-3637\JAJ

2a.

4.2.3 Soil/Sediment Data

4.2.3.1 Surface Soil

Surface soil samples were collected from eight locations around the Site, as indicated on Figure 2. Laboratory detections in surface soil are presented in Table 4-4.

Samples VSB-1 and VSB-2 were collected near the lithography building north of Highway 84. No VOCs were reported in these samples. Samples VSB-3, VSB-4, VSB-5, and VSB-6 were not analyzed at the laboratory, although the field GC reported low levels of T-DCE (up to 50 ug/kg) in these samples.

Background soil samples 1 and 2 were collected to determine background metals concentrations in the soil. Surface soil sample VSB-2 collected near the Lithography building was analyzed for metals and reported several metals above the background samples. None of these detections were above reportable soil concentrations as provided under the Georgia Hazardous Site Response Act. This sample was also analyzed for semi-volatile organics and reported no detections.

4.2.3.2 Subsurface soil

Samples of soil from probes SG-6, SG-5, and HP-9 were collected and sent for laboratory analysis. The laboratory detections are presented in Table 4-5. The sample from SG-5 was collected from approximately four ft BGS. and was analyzed for TPH, reporting 89.6 mg/kg TPH. The sample from SG-6 was also collected at approximately four feet below the floor surface and was analyzed for TCL VOCs. Several VOCs were detected at levels below Georgia Hazardous Site Response Act Notification Concentrations. Several metals were also detected, with concentrations similar to background levels. The SVOC 4-methylphenol was reported at 550 ug/kg, well below the Georgia notification concentration of 3,800 ug/kg. The sample from HP-9 was analyzed for TCL pesticides/PCBs. Pesticides/PCBs were not detected.

2a-

TABLE 4-4
LABORATORY DETECTIONS IN SURFACE SOIL
BROCKWAY STANDARD
HOMERVILLE, GEORGIA

Samples collected April 1994

Compound	NC	Sample Identification Bgrd 1	Bgrd 2	VSB-1	VSB-2	VSB-3	VSB-4	VSB-5	VSB-6
TCL VOLATILES		NA	NA	ND	ND	NA	NA	NA	NA
TCL SEMIVOLATILES		NA	NA	NA	ND	NA	NA	NA	NA
TAL METALS (mg/kg)									
aluminum	--	2500	612	NA	3920	NA	NA	NA	NA
calcium	--	416	79.1	NA	413	NA	NA	NA	NA
chromium	1200	ND	ND	NA	6.26	NA	NA	NA	NA
copper	1500	ND	ND	NA	5.84	NA	NA	NA	NA
iron	--	850	185	NA	2160	NA	NA	NA	NA
lead	300	5.27	ND	NA	23.3	NA	NA	NA	NA
magnesium	--	67.2	ND	NA	175	NA	NA	NA	NA
manganese	--	8.8	ND	NA	8.08	NA	NA	NA	NA
potassium	--	ND	ND	NA	62.8	NA	NA	NA	NA
zinc	2800	17.2	ND	NA	67	NA	NA	NA	NA

Notes: Only detections are reported in this table.
J - indicates a value reported below the detection limit.
-- - indicates there is no notification concentration for the specified compound.
NC - Notification Concentration for the GDNR Hazardous Site Response Program
NA - parameter not analyzed for.
ND - not detected.

FN: 4-4.WK1\943-3627\JAJ

2a.

TABLE 4-5
LABORATORY DETECTIONS IN SUBSURFACE SOIL
BROCKWAY STANDARD
HOMERVILLE, GEORGIA

Samples collected April 1994

Compound	NC	Sample Identification SG5-4S	SG6-4	HP-9
TCL VOLATILES (ug/kg)				
acetone	2740	NA	65 J	NA
1,1-dichloroethene	360	NA	4 J	NA
1,1-dichloroethane	30	NA	12	NA
2-butanone	790	NA	15 J	NA
trichloroethene	130	NA	3 J	NA
tetrachloroethene	180	NA	9	NA
ethylbenzene	20000	NA	2 J	NA
styrene	14000	NA	2 J	NA
xylenes	20000	NA	18	NA
cis-1,2-dichloroethene	--	NA	2 J	NA
TCL SEMIVOLATILES (ug/kg)				
4-methylphenol	3800	NA	550	NA
TCL Pests/PCBs		NA	NA	ND
Hexane (ug/kg)	--	ND	NA	NA
TPH (mg/kg)	--	89.6	NA	NA
TAL METALS (mg/kg)				
aluminum	--	NA	2300	NA
calcium	--	NA	591	NA
iron	--	NA	672	NA
magnesium	--	NA	83.4	NA
manganese	--	NA	8.51	NA
potassium	--	NA	82.4	NA
sodium	--	NA	932	NA
zinc	2800	NA	4.96	NA

Notes: Only detections reported in this table.
Only detections reported in this table.
J - indicates a value reported below the detection limit.
__ - there is no notification concentration for this.
NC Notification Concentration for the GDNR Hazardous Site Response Program
NA parameter not analyzed for.
ND parameter not detected.

FN: 4-5.WK1\934-3627\JAJ

2a.

4.2.3.3 Sediment

Sediment samples were collected from five locations across the Site as indicated on Figure 2. Laboratory detections are presented in Table 4-6. Georgia Hazardous Site Response Act Notification Concentrations have been used for comparison to the results obtained, in the absence of any applicable sediment threshold levels. Three of the samples were analyzed for VOCs. VSS-1 was collected from the ditch along the railroad tracks near the raw materials warehouse and reported no VOCs. VSS-2 was collected from the pond west of the lithography building, and reported three non-chlorinated VOCs below Georgia notification concentrations. VSS-4 was collected from the ditch near the railroad tracks west of the small lagoon and reported no VOCs.

VSS-3 was collected from the ditch along the railroad tracks in the southern portion of the property, and analyzed for TAL metals. Several metals were reported above background levels and above notification concentrations, including cadmium at 95.6 mg/kg, lead at 4060 mg/kg, thallium at 32.4 mg/kg, and zinc at 8970 mg/kg.

Sample VSS-4 was also analyzed for semi-volatile organics and TAL metals and reported several polynuclear aromatic hydrocarbons and metals at low levels (below their respective notification concentrations).

A sediment sample collected from the small lagoon (identified as Lagoon Sediment), was analyzed for TAL metals and reported several metals below the Georgia notification concentrations.

4.2.4 Quality Assurance/Quality Control

Samples were submitted to ACL in four batches under ACL project numbers 82596, 82687, 82778, and 15860.

The laboratory batches were examined for acceptable holding times, surrogate recoveries, for contaminants present in the blank samples, for acceptable accuracy and precision.

2a.

TABLE 4-6
LABORATORY DETECTIONS IN SEDIMENT
BROCKWAY STANDARD
HOMERVILLE, GEORGIA

Samples collected April 1994

Compound						
TCL VOLATILES (ug/kg)	NC	VSS-1	VSS-2	VSS-3	VSS-4	Lag. Sed.
acetone	2740	ND	86 J	NA	ND	NA
2-butanone	790	ND	48 J	NA	ND	NA
toluene	14400	ND	79	NA	ND	NA
TCL SEMIVOLATILES (ug/kg)						
fluoranthene	5000000	NA	NA	NA	70 J	NA
pyrene	5000000	NA	NA	NA	110 J	NA
chrysene	5000	NA	NA	NA	80 J	NA
benzo(b)fluoranthene	5000	NA	NA	NA	90 J	NA
benzo(k)fluoranthene	5000	NA	NA	NA	80 J	NA
TAL METALS (mg/kg)						
aluminum	—	NA	NA	3210	2070	2730
barium	500	NA	NA	253	10.5	22
cadmium	39	NA	NA	95.6	ND	ND
calcium	—	NA	NA	5710	572	716
chromium	1200	NA	NA	670	12.1	40.4
cobalt	25	NA	NA	5.19	ND	ND
copper	1500	NA	NA	320	ND	ND
iron	—	NA	NA	9970	901	1920
lead	300	NA	NA	4060	22.2	54.2
magnesium	—	NA	NA	1130	64.5	121
manganese	—	NA	NA	71.8	23.7	10.8
mercury	17	NA	NA	0.55	ND	ND
nickel	420	NA	NA	412	ND	20.3
potassium	—	NA	NA	54	ND	ND
selenium	36	NA	NA	17.8	ND	ND
sodium	—	NA	NA	79.8	ND	ND
thallium	10	NA	NA	32.4	ND	ND
vanadium	100	NA	NA	30.4	ND	ND
zinc	2800	NA	NA	8970	61.5	352

Notes: Only detections are reported in this table.
J - indicates a value reported below the detection limit.
-- - indicates there is no notification concentration for the specified compound.
NC - Notification Concentration for the GDNR Hazardous Site Response Program
NA - parameter not analyzed for.
ND - not detected.

FN: 4-6.WK1\943-3627\JAJ

2a.

The only issues noted with QA concern:

- Reduced recovery of 4-Bromofluorobenzene (71% when lower limit is 74%) for VOCs for VSS-1: this could indicate the VOCs results for this sample may be slightly higher than reported.
- Reduced recovery of Toluene-d8 (87.9% when lower limit is 88%) for MW-11: this is considered insignificant due to the acceptable recoveries of other surrogates and the deviation of only 0.01%.
- Detection of 0.02 mg/l zinc in a water blank for batch 15880. This could indicate that reported zinc levels may be lower than were reported.
- Detection of 54.4 mg/kg calcium in a soil blank for batch 15880. This could indicate that reported calcium levels may be lower than were reported.

Based on examination of the laboratory QA, as discussed above, the data is considered to be of acceptable quality to be used for this project.

5.0 CONCLUSIONS

5.1 Groundwater Flow Direction

Groundwater flow at the site is influenced by several conflicting gradients comprising

- The general regional direction of groundwater flow towards the southeast;
- The local topography resulting in migration toward the west-south west. This has created the on-site pond as a local discharge point; and
- The presence of both on-site and off-site drainage, probably resulting in local groundwater mounding and a flow component to the south.

There is no overall barrier to local vertical migration of chemicals, at least to 40 ft BGS, the depth of drilling on-site. A review of the overlying materials in the MW-8 location suggests the presence of a buried river channel that would result in the non-continuous nature of shallow clays at the site.

5.2 Contamination

The contaminants that have been identified in the site investigations have included chlorinated solvents, NAPLs containing hydrocarbons, and elevated concentrations of some metals. Golder Associates considers that the type, the concentration, and the extent of chlorinated solvents at the site presents the most significant of the contamination issues.

5.2.1 Chlorinated Solvents

The extent of contamination defined in this additional Phase II refines the initial conclusions reached from the ENVIRON Phase II which suggest that there is contamination of the groundwater with chlorinated organic volatile compounds. The previous studies had indicated uncertainty as to the vertical extent of the contamination with the deepest extent being roughly 17 feet BGS. This study has extended the known extent of contamination to at least 40 ft BGS in MW-8.

The shallow groundwater contamination appears to be bounded laterally to the north, north west, north east and east. To the north and north west, the chlorinated VOCs are

bounded by clean points at MW-12, MW-7, HP-13, HP-19, and HP-17. To the east the chlorinated VOCs are semi-quantitatively bounded by low detections in HP-12 (TCE at 6 ug/l) and HP-1 (TDCE at 28 ug/l). However, the VOC contamination may have migrated off-site to the west, south west, south and, at depth, to the south east.

Golder Associates did not observe any primary sources of the chlorinated VOCs at the site. However, from review of the analytical data, secondary sources of VOCs are evident in the subsurface including the areas around MW-3, the paint booths, the "Purolator building", and possibly the areas around MW-11 and MW-4.

11-DCE appears to be the chlorinated VOC present in greatest concentrations at the site. 11-DCE is a degradation product formed by the anaerobic biodegradation of PCE and TCE, by the hydrolysis of 111-TCA, and by the thermal decomposition of 111-TCA, as may occur in welding shops if 111-TCA is used as a degreaser. Figure 4 presents some of the degradation pathways of the chlorinated VOCs. All the chlorinated VOCs noted on Figure 4 are reported in the groundwater at the Brockway site.

Sampling through the downgradient clay layer has not been performed. However, chemical analyses of both the on-site production well and the city drinking water supply have not reported any detections of the chlorinated volatile organics.

Samples taken from the lake in February 1994 and in April 1994 both reported 11-DCE at 4 ug/l, below the method detection limit of 5 ug/l. The reported half-life of 11-DCE in surface water is 1-6 days, thereby indicating that there could be a continuing source of 11-DCE to the lake.

5.2.2 Non-Aqueous Phase Liquids

A few feet of LNAPL that consisted primarily of mineral spirit range hydrocarbons was encountered in MW-3. This appeared as a light straw-colored liquid that was also noted, but not analyzed, at the SG-5 and SG-6 locations.

The extent of "lava lamp" NAPL noted at SG-3 has not been delineated. The NAPL liquid and sediment was grey colored and slightly more dense than water.

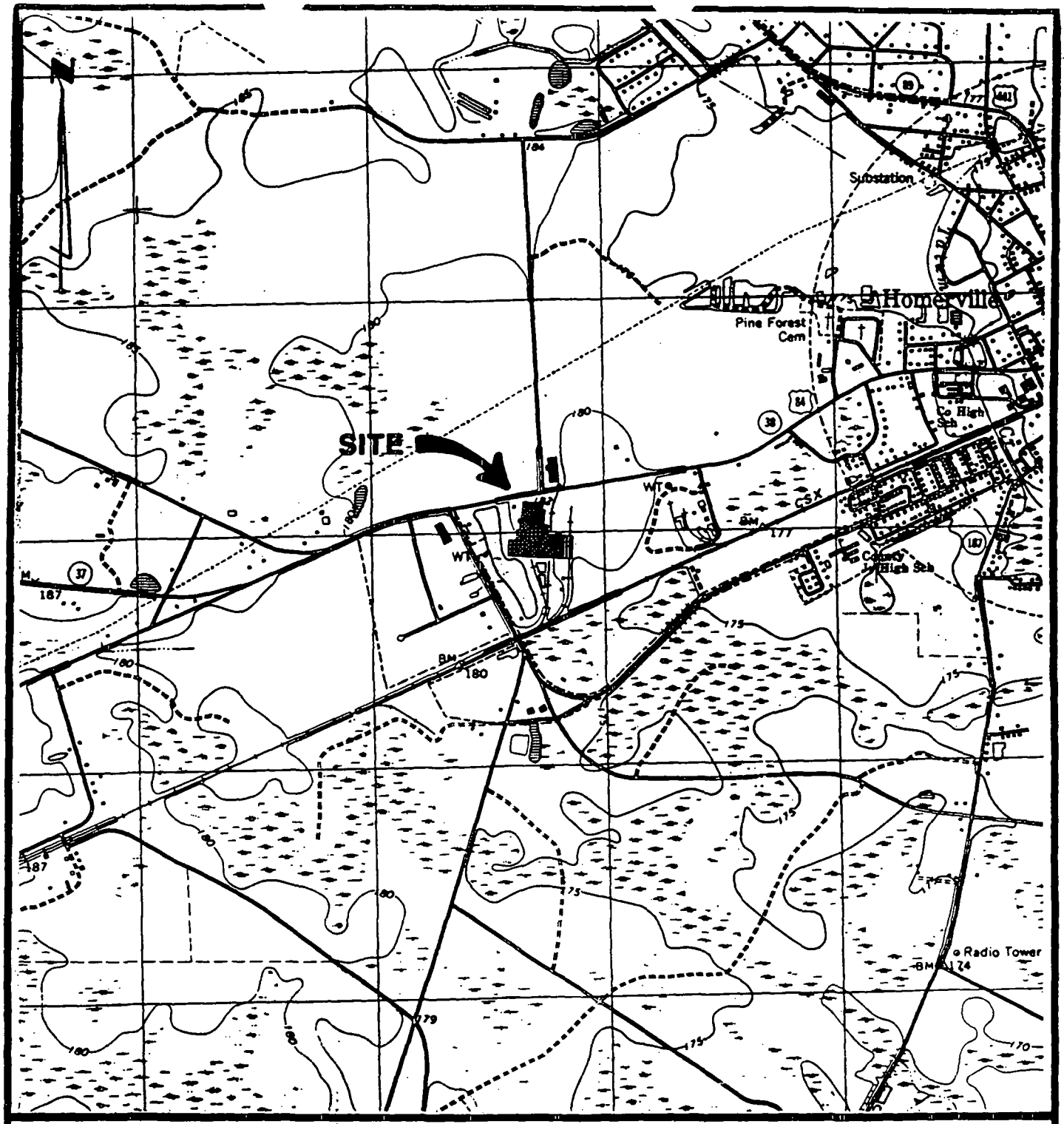
5.2.3 Metals

Slightly elevated concentrations of cadmium, lead, thallium, and zinc were reported in sediment sample VSS-3. Metals are not of concern in surface waters. Zinc was reported above its regulatory limit in the cooling water discharge and the lagoon. However, neither of these water bodies discharges to a natural surface water. Also, metals are generally not of concern with respect to the site, when compared with background for groundwater water and reporting standards for soils.

5.3 Restriction

This report has been prepared exclusively for Brockway Standard Inc. in connection with this additional Phase II investigation performed by Golder Associates. The data, information and opinions contained in this report have been developed using technical approaches and procedures consistent with the standard of care normal to this industry, and are intended for the sole use of Brockway Standard Inc. Golder Associates Inc. disclaims any and all responsibility whatsoever to any third parties who obtain, use, cite, or otherwise reference data, information, or opinions expressed or implied in this report.

FN: 3627-RPT.jul.943-3627.JAJ



REFERENCE:

TOPOGRAPHY TAKEN FROM THE HOMERVILLE WEST U.S.G.S. QUADRANGLE, GEORGIA - CLINCH CO., 7.5 MINUTE SERIES, PHOTOREVISED 1987.

QUADRANGLE LOCATION

SCALE IN FEET

0 2000 4000

Golder Associates Atlanta, Georgia

TITLE: SITE LOCATION MAP

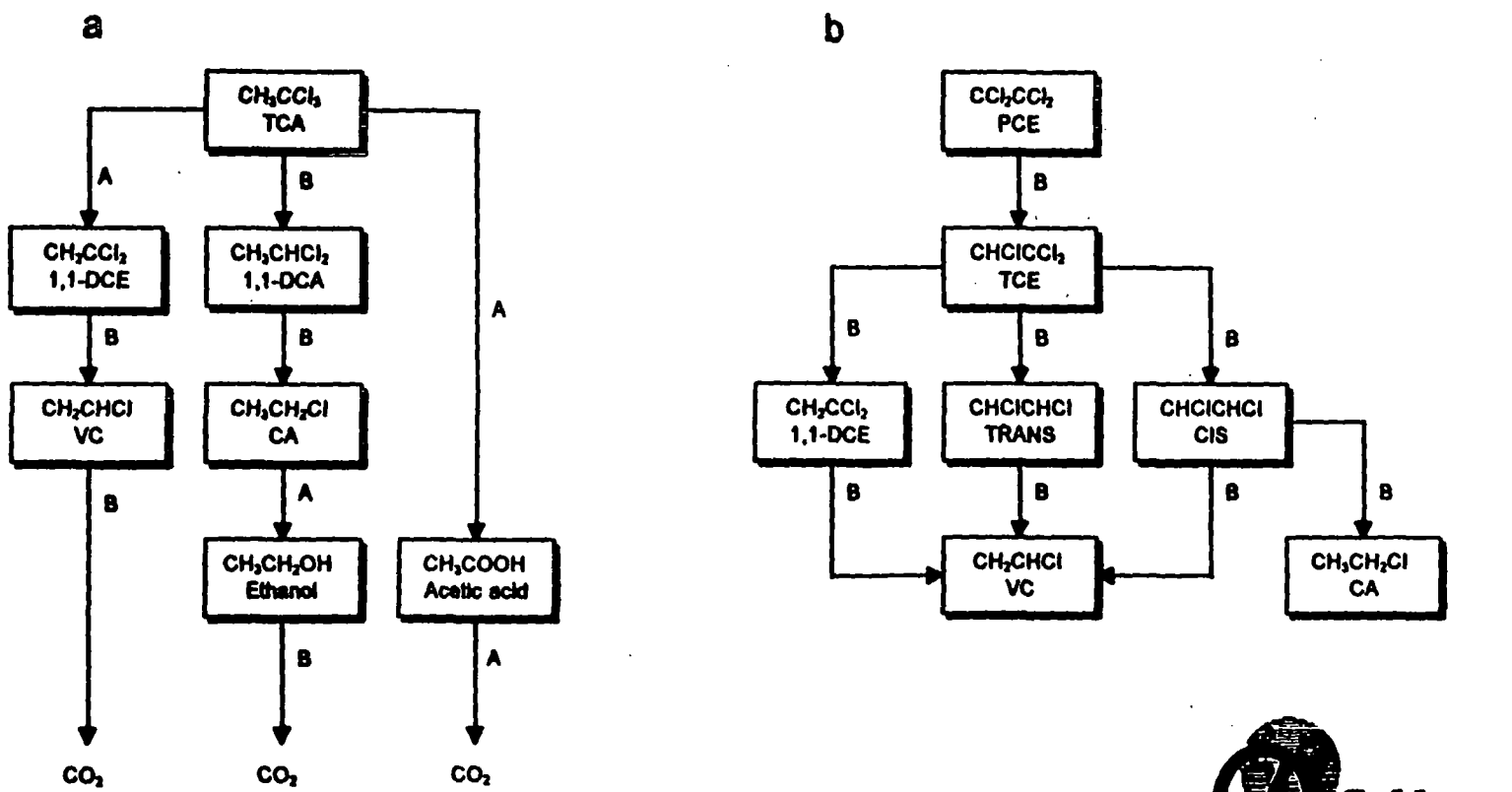
CLIENT/PROJECT: BROCKWAY STANDARD, INC. HOMERVILLE, GEORGIA FACILITY

DRAWN R.C.A.	DATE 2/16/94	JOB NO. 943-3627	
CHECKED JJLP	SCALE AS SHOWN	DWG NO.	REV. NO
REVIEWED CO	FILE NO. 943-3627	SUBTITLE	FIGURE NO. 1

N77309

2a.

POSSIBLE TRANSFORMATION SEQUENCES

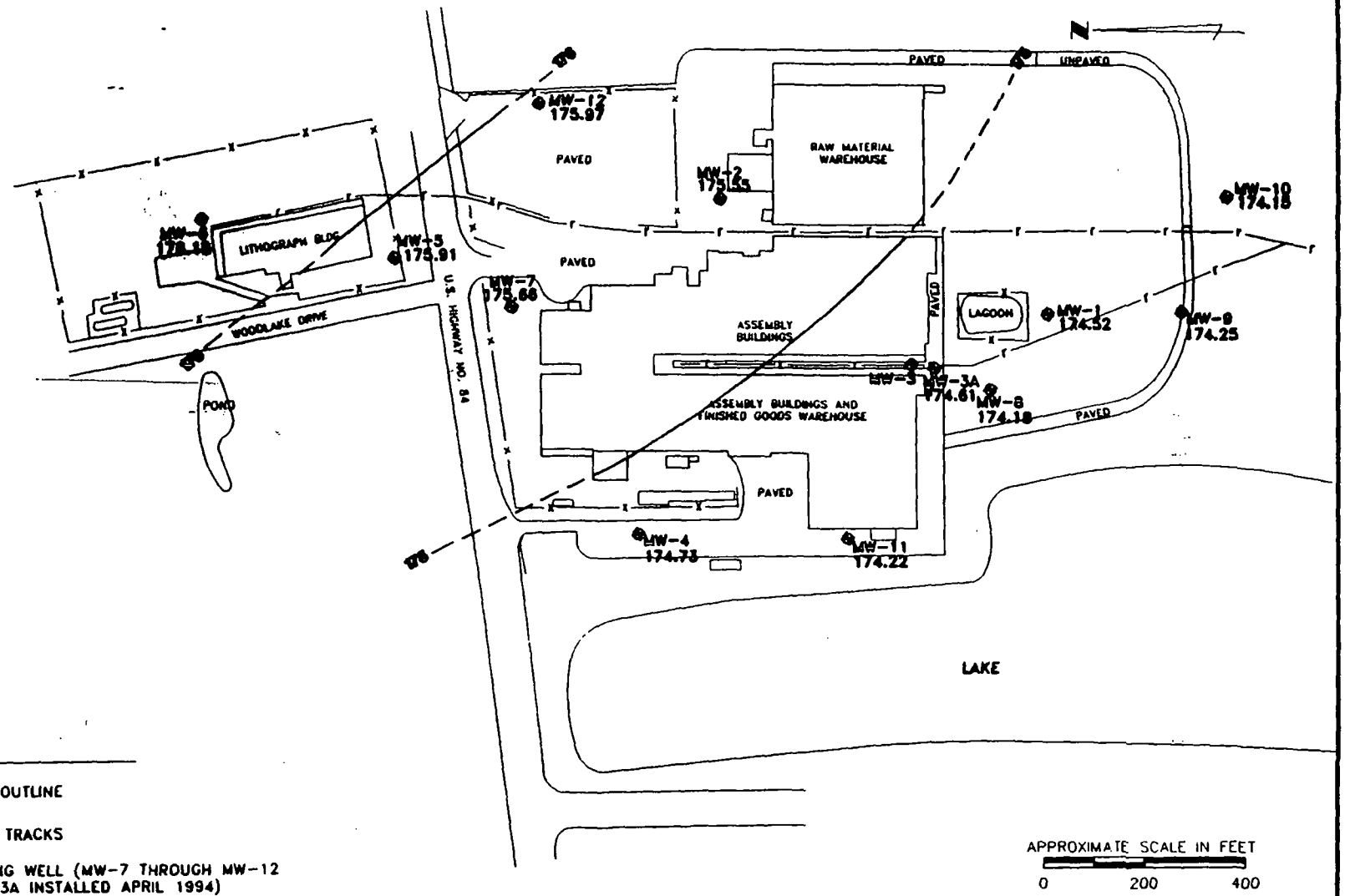


Golder Associates

2-10-94 8157108

FIGURE 4

29



LEGEND

- BUILDING OUTLINE
- FENCE
- RAILROAD TRACKS
- MW-9 MONITORING WELL (MW-7 THROUGH MW-12 AND MW-3A INSTALLED APRIL 1994)
- CALCULATED POTENTIOMETRIC CONTOUR
- ASSUMED POTENTIOMETRIC CONTOUR

REFERENCE: ORIGINAL DRAWING TAKEN FROM ENVIRON ENVIRONMENTAL INVESTIGATION MAY 11, 1993.

Golder Associates — Atlanta, Georgia

CLIENT/PROJECT: BROCKWAY/HOMERVILLE/GA

TITLE: GROUNDWATER POTENTIOMETRIC MAP

DRAWN R.C.A.	DATE 5/94	JOB NO. 943-3627	
CHECKED	SCALE AS SHOWN	DWG. NO.	REV. NO.
REVIEWED	FILE NO.	SUBFILE	FIGURE NO. 3

2a

TABLE 1
Soil and Sediment Sampling Locations, Depths and Analyses

Area	Sample Number	Depth	Analytical Parameters[1]
Burn Area	3212A-BA01-SB01	0.0-0.5	TPHC, Chromium, Lead, Zinc
	3212A-BA01-SB02	1.5-2.0	Solvents
	3212A-BA02-SB01	0.0-0.5	TPHC, Chromium, Lead, Zinc
	3212A-BA02-SB02	1.5-2.0	Solvents
Lagoon	3212A-LG01-SS01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents, TCLP Semivolatiles, TCLP Metals, TCLP Volatiles, TCLP Pesticides, TCLP Herbicides
	3212A-LG02-SS01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents, TCLP Semivolatiles, TCLP Metals, TCLP Volatiles, TCLP Pesticides, TCLP Herbicides
Railroad	3212A-MW03-SB01	3.0-4.0	TPHC, Chromium, Lead, Zinc, Solvents
	3212A-RR01-SB01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents
	3212A-RR02-SB01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents
	3212A-RR03-SS01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents
	3212A-RR04-SS01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents
	3212A-RR05-SS01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents
	3212A-RR06-SS01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents
	3212A-RR07-SS01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents
	3212A-RR08-SB01	0.0-0.5	TPHC, Chromium, Lead, Zinc
	3212A-RR08-SB02	1.5-2.0	Solvents
	3212A-RR09-SS01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents
MW4	3212A-NMW4-SB01	0.2-0.7	TPHC, Chromium, Lead, Zinc, Solvents
MW5	3212A-NMW5-SB01	0.2-0.7	TPHC, Chromium, Lead, Zinc, Solvents
MW6 (Drum Storage)	3212A-MW06-SB01	1.5-3.5	TPHC, Chromium, Lead, Zinc, Solvents

TABLE 1
Soil and Sediment Sampling Locations, Depths and Analyses

Area	Sample Number	Depth	Analytical Parameters[1]
Pond	3212A-TDP1-SS01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents
	3212A-TDP2-SS01	0.0-0.5	TPHC, Chromium, Lead, Zinc, Solvents

Notes:

[1] Analyses:

TPHC: Total Petroleum Hydrocarbons (EPA Method 418.1)
Solvents: Volatile Organic Chemicals (EPA Method 8240)
Chromium, Lead, Zinc: (EPA Method 6010)
TCLP: Toxicity Charucteristic Leaching Procedure
TCLP Semivolatiles (EPA Method 8270)
TCLP Metals (EPA Method 6010)
TCLP Volatiles (EPA Method 8240)
TCLP Herbicides (EPA Method 8150)
TCLP Pesticides (EPA Method 8080)

TABLE 2
Ground Water Sampling Locations and Analyses

Well ID	Sample Number	Analytical Parameters[1]
MW1	3212A-MW01-GW01	TPHCs, Chromium, Lead, Zinc, Solvents
MW2	3212A-MW01-GW01	TPHCs, Chromium, Lead, Zinc, Solvents
MW3	3212A-MW01-GW01	TPHCs, Chromium, Lead, Zinc, Solvents
MW4	3212A-MW01-GW01	TPHCs, Chromium, Lead, Zinc, Solvents
MW5	3212A-MW01-GW01	TPHCs, Chromium, Lead, Zinc, Solvents
MW6	3212A-MW01-GW01	TPHCs, Chromium, Lead, Zinc, Solvents

Notes:

[1] Analyses:

TPHC: Total Petroleum Hydrocarbons (EPA Method 418.1)
Solvents: Volatile Organic Chemicals (EPA Method 8240)
Chromium, Lead: (EPA 7000 Series Method)
Zinc: (EPA Method 6010)

TABLE 3
Summary of Analytical Results for Soils and Sediments (ppm)

ENVIRON Sample ID Depth (feet)	BA01-SB01 0.0-0.5	BA01-SB02 1.5-2.0	BA02-SB01 0.0-0.5	BA02-SB02 1.5-2.0	LG01-SS01 0.0-0.5	LG02-SS01 0.0-0.5
Petroleum Hydrocarbons	26.2	—	37.7	—	470	14,700
Volatile Organic Compounds						
Chloroethane	—	<0.012	—	<0.012	<0.023	<0.029
1,1-Dichloroethane	—	<0.0058	—	<0.0055	<0.011	<0.014
1,2-Trans-dichloroethylene	—	<0.002	—	<0.0019	<0.0036	<0.0047
Methylene chloride	—	<0.0035	—	<0.0033	<0.0064	<0.0082
Methyl ethyl ketone	—	<0.012	—	<0.012	<0.023	<0.029
Methyl-iso-butyl ketone	—	<0.012	—	<0.012	<0.023	<0.029
Tetrachloroethylene	—	<0.0051	—	<0.0048	<0.0093	<0.012
1,1,1-Trichloroethane	—	<0.0047	—	<0.0045	<0.0086	<0.011
1,1,2-Trichlorethane	—	<0.0062	—	<0.0059	<0.011	<0.015
Trichloroethylene	—	<0.0023	—	<0.0022	<0.0043	<0.0056
Trichlorofluoromethane	—	<0.0012	—	0.017	<0.023	<0.029
Toluene	—	<0.0074	—	<0.0071	<0.014	0.006J
Xylene(s)	—	<0.012	—	<0.012	<0.023	<0.029

TABLE 3
Summary of Analytical Results for Soils and Sediments (ppm)

ENVIRON Sample ID Depth (feet)	BA01-SB01 0.0-0.5	BA01-SB02 1.5-2.0	BA02-SB01 0.0-0.5	BA02-SB02 1.5-2.0	LG01-SS01 0.0-0.5	LG02-SS01 0.0-0.5
Metals						
Chromium	3.7	—	3.9	—	110	5,110
Lead	9.7	—	10	—	40	410
Zinc	2.3B	—	2.5B	—	550	55,700
TCLP Parameters						
TCLP Metals	—	—	—	—	ND	ND
Barium	—	—	—	—	0.18	ND
TCLP Semivolatiles	—	—	—	—	ND	ND
TCLP Volatiles	—	—	—	—	ND	ND
TCLP Pesticides	—	—	—	—	ND	ND
TCLP Herbicides	—	—	—	—	ND	ND

TABLE 3
Summary of Analytical Results for Soils and Sediments (ppm)

ENVIRON Sample ID Depth (feet)	MW03-SB01 3.0-4.0	MW06-SB01 1.5-3.5	NMW4-SB01 0.2-0.7	NMW5-SB01 0.2-0.7	RR01-SB01 0.0-0.5	RR02-SB01 0.0-0.5
Petroleum Hydrocarbons	39.4	22.3	114	814	20,000	2,600
Volatile Organic Compounds						
Chloroethane	0.029	<0.011	<0.011	<0.011	<0.011	<3.0
1,1-Dichloroethane	0.046	<0.0052	<0.0051	<0.0053	<0.0052	<1.4
1,2-Trans-dichloroethylene	<0.0018	<0.0018	0.0070	<0.0018	<0.0018	<0.48
Methylene chloride	0.0073	0.010	<0.0030	<0.0032	<0.0031	<3.0
Methyl ethyl ketone	0.0089J	<0.011	<0.011	<0.011	<0.011	64.1
Methyl-iso-butyl ketone	<0.011	<0.011	<0.011	<0.011	<0.011	<3.0
Tetrachloroethylene	<0.0047	<0.0045	<0.0045	<0.0047	<0.0045	<1.2
1,1,1-Trichloroethane	0.015	<0.0042	<0.0041	<0.0043	0.014	1.78
1,1,2-Trichlorethane	<0.0057	<0.0055	<0.0054	<0.0057	<0.0055	<1.5
Trichloroethylene	<0.0022	<0.0021	<0.0021	<0.0022	<0.0021	<0.57
Trichlorofluoromethane	<0.011	<0.011	<0.011	<0.011	<0.011	<3.0
Toluene	<0.0068	<0.0068	<0.0065	<0.0068	0.0056J	38.9
Xylene(s)	<0.011	0.011	<0.011	<0.011	<0.011	4.72J

TABLE 3
Summary of Analytical Results for Soils and Sediments (ppm)

ENVIRON Sample ID Depth (feet)	MW03-SB01 3.0-4.0	MW06-SB01 1.5-3.5	NMW4-SB01 0.2-0.7	NMW5-SB01 0.2-0.7	RR01-SB01 0.0-0.5	RR02-SB01 0.0-0.5
Metals						
Chromium	5.70	2.20	1.70	11	45	295
Lead	6.30B	2.0B	8.90	35	1,380	3,120
Zinc	2.1J	4.60	9.40	288	488	663

TABLE 3
Summary of Analytical Results for Soils and Sediments (ppm)

ENVIRON Sample ID Depth (feet)	RR03-SS01 0.0-0.5	RR04-SS01 0.0-0.5	RR05-SS01 0.0-0.5	RR06-SS01 0.0-0.5	RR07-SS01 0.0-0.5	RR08-SB01 0.0-0.5
Petroleum Hydrocarbons	32.3	1,210	1,100	10,300	77.9	45.5
Volatile Organic Compounds						
Chloroethane	<0.012	<0.012	<0.012	2.72	0.109	—
1,1-Dichloroethane	<0.0055	<0.0055	<0.0055	18.1	<0.0075	—
1,2-Trans-dichloroethylene	<0.0019	<0.0019	<0.0019	14.2	<0.0025	—
Methylene chloride	<0.0033	<0.0033	<0.0033	<0.34	<0.0044	—
Methyl ethyl ketone	<0.012	<0.012	<0.012	<1.2	<0.016	—
Methyl-iso-butyl ketone	<0.012	<0.014	<0.012	<1.2	<0.016	—
Tetrachloroethylene	<0.0048	<0.0048	<0.0048	0.48J	<0.0065	—
1,1,1-Trichloroethane	<0.0045	<0.0044	<0.0045	21.1	<0.006	—
1,1,2-Trichlorethane	<0.0059	<0.0058	<0.0059	<0.61	<0.0079	—
Trichloroethylene	<0.0022	<0.0022	<0.0022	1.58	<0.003	—
Trichlorofluoromethane	<0.012	<0.012	<0.012	<1.2	<0.016	—
Toluene	<0.0071	<0.007	<0.0071	<0.73	<0.0095	—
Xylene(s)	<0.012	0.0072	<0.012	<1.2	0.024J	—

TABLE 3
Summary of Analytical Results for Soils and Sediments (ppm)

ENVIRON Sample ID Depth (feet)	RR03-SS01 0.0-0.5	RR04-SS01 0.0-0.5	RR05-SS01 0.0-0.5	RR06-SS01 0.0-0.5	RR07-SS01 0.0-0.5	RR08-SB01 0.0-0.5
Metals						
Chromium	7.5	44	35	423	22	53
Lead	15	290	180	3,300	83	420
Zinc	38	210	377	4,930	392J	110J

TABLE 3
Summary of Analytical Results for Soils and Sediments (ppm)

ENVIRON Sample ID Depth (feet)	RR08-SB02 1.5-2.0	RR09-SS01 0.0-0.5	TDP1-SS01 0.0-0.5	TDP2-SS01 0.0-0.5
Petroleum Hydrocarbons	—	2,000	169	1,360
Volatile Organic Compounds				
Chloroethane	<0.012	<0.024	<0.018	<0.012
1,1-Dichloroethane	<0.0055	<0.011	<0.0082	<0.0057
1,2-Trans-dichloroethylene	<0.0019	<0.0039	<0.0028	<0.002
Ethylbenzene	<0.0085	0.030	<0.013	<0.0088
Methylene chloride	<0.0033	<0.0068	<0.0049	0.0052
Methyl ethyl ketone	0.015	<0.024	<0.018	<0.012
Methyl-iso-butyl ketone	<0.012	<0.024	<0.018	<0.012
Tetrachloroethylene	<0.0048	<0.010	<0.0072	<0.005
1,1,1-Trichloroethane	<0.0045	<0.0093	<0.0067	<0.0046
1,1,2-Trichlorethane	<0.0059	<0.012	<0.0088	<0.0061
Trichloroethylene	<0.0022	<0.0046	<0.0033	<0.0023
Trichlorofluoromethane	<0.012	0.145	<0.018	<0.012
Toluene	<0.0071	3.81	<0.011	<0.0073
Xylene(s)	<0.012	0.33	<0.018	<0.012

TABLE 3
Summary of Analytical Results for Soils and Sediments (ppm)

ENVIRON Sample ID Depth (feet)	RR08-SB02 1.5-2.0	RR09-SS01 0.0-0.5	TDP1-SS01 0.0-0.5	TDP2-SS01 0.0-0.5
Metals				
Chromium	—	339	1.60	1.90
Lead	—	1,430	2.60B	3.70B
Zinc	—	2,880J	3.70	5.50

ppm Parts per million or milligrams per kilogram (mg/kg).
ND Not detected.
B Chemical was detected in an associated blank at a concentration greater than one fifth of the sample concentration.
J Quantity is an estimate.

TABLE 4
Summary of Analytical Results for Ground Water (ppb)

ENVIRON Sample ID	MW01-GW01	MW02-GW01	MW03-GW01	MW04-GW01	MW05-GW01	MW06-GW01
Total Petroleum Hydrocarbons	<1,000	1,100	<1,000	<1,000	<1,000	<1,000
Volatile Organic Compounds						
Chloroethane	<100	<10	1,010	74.1	<10	<10
1,1-Dichloroethane	371	27.8	2,890	562	<4.7	<4.7
1,1-Dichloroethylene	1,530	10.9	5,620	431	1.51J	<2.8
1,2-Trans-dichloroethylene	363	48.4	1,400	57.4	<1.6	<1.6
Ethylbenzene	<72	<7.2	<360	15.3J	<7.2	<7.2
Methylene chloride	<28	<2.8	<140	5.41J	<2.8	<2.8
Methyl ethyl ketone	<100	<10	<500	<50	<10	<10
Methyl-iso-butyl ketone	<100	<10	<500	<50	<10	<10
1,1,1-Trichloroethane	68.8	<3.8	1,050	741	<3.8	<3.8
1,1,2-Trichlorethane	<50	<5.0	<250	<25	<5.0	<5.0
Trichloroethylene	127	<1.9	637	<9.5	<1.9	<1.9
Toluene	7.60J	<6.0	185	<30	<6.0	<6.0
Vinyl chloride	599	55.5	8,400	168	<10	<10
Xylene(s)	<100	<10	<500	21.9J	<10	<10

TABLE 4
Summary of Analytical Results for Ground Water (ppb)

ENVIRON Sample ID	MW01-GW01	MW02-GW01	MW03-GW01	MW04-GW01	MW05-GW01	MW06-GW01
Metals						
Chromium	1.9B	0.60B	5.70	2.20B	23	22
Lead	2.8J	7.90	4.9J	6.0	8.8	7.9
Zinc	20	26	16J	9.3B	51	26

TABLE 4
Summary of Analytical Results for Ground Water (ppb)

ENVIRON Sample ID	0415-WB01 (Wash Blank)	TB-041593 (Trip Blank)
Petroleum Hydrocarbons	<1,000	—
Volatile Organic Compounds		
Chloroethane	<10	<10
1,1-Dichloroethane	<4.7	<4.2
1,1-Dichloroethylene	<2.8	<2.8
1,2-Trans-dichloroethylene	<1.6	<1.6
Methyl ethyl ketone	<10	<10
Methyl-iso-butyl ketone	<10	<10
1,1,1-Trichloroethane	<3.8	<3.8
1,1,2-Trichloroethane	<5.0	<5.0
Trichloroethylene	<1.9	<1.9
Toluene	<6.0	<6.0
Vinyl chloride	<10	<10
Xylene(s)	<10	<10

TABLE 4
Summary of Analytical Results for Ground Water (ppb)

ENVIRON Sample ID	0415-WB01 (Wash Blank)	TB-041593 (Trip Blank)
Metals		
Chromium	1.1	—
Lead	2.6	—
Zinc	17	—

ppb Parts per billion or micrograms per liter (μg/L).
B Chemical was detected in an associated blank at a concentration greater than one fifth of the sample concentration.
J Quantity is an estimate.

APPENDIX A

LITHOLOGIC LOGS FOR MONITORING WELLS

ENVIRON
BORING/WELL LOG

PROJECT: Brockway Standard
Homerville, Georgia

CASE #: 01-3212C

BORING/WELL#: MW1

DATE: April 14, 1993

LOGGED BY: Clement Ockay

DRILLING CO.: Layne Environmental Services

DRILLER: Vance Biehl

RIG: CME-55

METHOD: Hollow-Stem Auger

BORING DIA.: 10.5 Inches

BORING DEPTH: 18.0 Feet

DEPTH TO WATER: 2.5 Feet

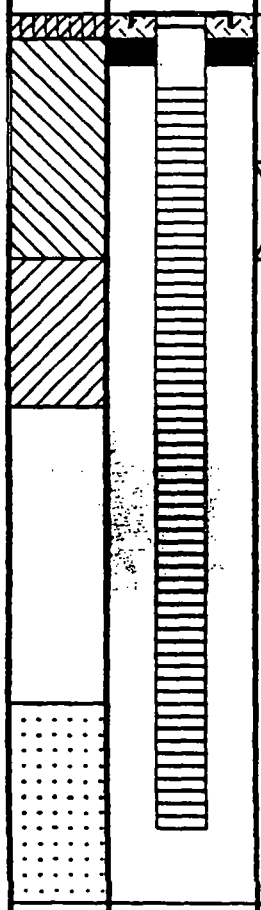
WELL CASING
LENGTH: 1.0 Feet
DIA.: 4 Inches
TYPE: Schedule 40 PVC

WELL SCREEN
LENGTH: 15 Feet
DIA.: 4 Inches
SLOT SIZE: No. 10

WELL DEVELOPMENT
TIME: 30 Minutes
METHOD: Centrifigal Pump
EST. YIELD: 8gpm

COMMENTS:

01



DEPTH (feet)	GRAPHIC LOG	WELL CONSTRUCT	SAMPLE TYPE	BLOW COUNTS	SAMPLE INTERVAL (feet)	DESCRIPTIVE INTERVAL (feet)	DESCRIPTION
0						0.0-0.5	Brown, Clayey SILT, Grass at Surface
						0.5-5.0	Light Gray and Orange-Beige, Mottled, Sandy CLAY, Moist
				1 2 3 3	3.0-5.0		
5						5.0-8.0	Pink-Beige to Red-Brown, Clayey Medium SAND, Moist
10						8.0-14.0	Red-Brown, Fine to Medium SAND, Little Clay, Wet at 8.0 Feet
15						14.0-18.0	Light Orange-Beige, Medium to Coarse SAND, Some Granule Gravel Little Clay, Wet
20							

ENVIRON
BORING/WELL LOG

BORING/WELL# MW2

DATE: April 14, 1993

LOGGED BY: Clement Ockay

DRILLING CO.: Layne Environmental Services

DRILLER: Vance Biehl

RIG: CME-55

METHOD: Hollow-Stem Auger

BORING DIA.: 10.5 Inches

BORING DEPTH: 20.0 Feet

DEPTH TO WATER: 5.3 Feet

WELL CASING

LENGTH: 4.5 Feet

DIA.: 4 Inches

TYPE: Schedule 40 PVC

WELL SCREEN

LENGTH: 15 Feet

DIA.: 4 Inches

SLOT SIZE: No. 10

WELL DEVELOPMENT

TIME: 30 Minutes

METHOD: Centrifigal Pump

EST. YIELD: 9gpm

PROJECT: Brockway Standard
Homerville, Georgia

CASE # 01-3212C

COMMENTS:

02

DEPTH (feet)	GRAPHIC LOG	WELL CONSTRUCT	SAMPLE TYPE	BLOW COUNTS	SAMPLE INTERVAL (feet)	DESCRIPTIVE INTERVAL (feet)	DESCRIPTION
0						0.0-0.2	Blacktop
						0.2-4.2	Light Gray, Silty Fine SAND, Moist
				2 1	3.0-5.0		
				2 3		4.2-5.0	Orange-Beige Sandy SILT, Little Clay
5						5.0-13.0	Pink-Beige Sandy CLAY, Sand Content Increases with depth, Wet at 10.0 Feet
10							
15						13.0-20.0	Pink-Beige Clayey SAND, Wet
20							

ENVIRON
BORING/WELL LOG

BORING/WELL# MW3

DATE: April 15, 1993

LOGGED BY: Clement Ockay

DRILLING CO.: Layne Environmental Services

DRILLER: Vance Biehl

RIG: CME-55

METHOD: Hollow-Stem Auger

BORING DIA.: 10.5 Inches

BORING DEPTH: 18.0 Feet

DEPTH TO WATER: 4.0 Feet

WELL CASING

LENGTH: 1.5 Feet

DIA.: 4 Inches

TYPE: Schedule 40 PVC

WELL SCREEN

LENGTH: 15 Feet

DIA.: 4 Inches

SLOT SIZE: No. 10

WELL DEVELOPMENT

TIME: 30 Minutes

METHOD: Centrifigal Pump

EST. YIELD: 7gpm

PROJECT: Brockway Standard
Homerville, Georgia

CASE # 01-3212C

COMMENTS:

- Soil sample 3212A-MW03-SB01 Collected from splitspoon and analyzed for total petroleum hydocarbons, volatile organics and chromium, lead and zinc

03

DEPTH (feet)	GRAPHIC LOG	WELL CONSTRUCT	SAMPLE TYPE	BLOW COUNTS	SAMPLE INTERVAL (feet)	DESCRIPTIVE INTERVAL (feet)	DESCRIPTION
0						0.0-3.0	Dark Gray, Pebble GRAVEL, Angular (Railroad Ballast), Some Medium to Fine Sand, Solvent Odor
				5 4 2 2	3.0-5.0	3.0-4.2	Light Gray and Beige, Mottled, Silty Medium SAND, Solvent Odor
5						4.2-18.0	Gray, Medium SAND, Some Clay, Little Granular Gravel at 9.0 to 17.0 Feet, Wet at 7 Feet, Solvent Odor
10							
15							
20							

ENVIRON
BORING/WELL LOG

BORING/WELL# MW4

DATE: April 14, 1993

LOGGED BY: Clement Ockay

DRILLING CO.: Layne Environmental Services

DRILLER: Vance Biehl

RIG: CME-55

METHOD: Hollow-Stem Auger

BORING DIA.: 10.5 Inches

BORING DEPTH: 18.0 Feet

DEPTH TO WATER: 2.7 Feet

WELL CASING
LENGTH: 2.5 Feet

DIA.: 4 Inches

TYPE: Schedule 40 PVC

WELL SCREEN
LENGTH: 15 Feet

DIA.: 4 Inches

SLOT SIZE: No. 10

WELL DEVELOPMENT
TIME: 30 Minutes

METHOD: Centrifigal Pump

EST. YIELD: 7 gpm

PROJECT: Brockway Standard
Homerville, Georgia

CASE # 01-3212C

COMMENTS:

04

DEPTH (feet)	GRAPHIC LOG	WELL CONSTRUCT	SAMPLE TYPE	BLOW COUNTS	SAMPLE INTERVAL (feet)	DESCRIPTIVE INTERVAL (feet)	DESCRIPTION
0						0.0–0.3	Blacktop
						0.3–2.5	Light Gray, Fine SAND, Black Stained at 0.3 to 1.3 Feet, Dry, No Odor
						2.5–3.5	Light Gray Sandy CLAY, Moist
			X	2 2 5 6	3.0–5.0	3.5–6.5	Orange-Beige, Gray Mottled, Sandy CLAY, Moist
5							
10						6.5–13.0	Orange to Orange-Beige, Clayey Fine to Medium SAND, Wet at 8.0 Feet
15						13.0–18.0	Light Gray, Clayey Fine SAND, Wet
20							

ENVIRON
BORING/WELL LOG

PROJECT: Brockway Standard
Homerville, Georgia

CASE # 01-3212C

BORING/WELL# MW5

DATE: April 14, 1993

LOGGED BY: Clement Ockay

DRILLING CO.: Layne Environmental Services

DRILLER: Vance Biehl

RIG: CME-55

METHOD: Hollow-Stem Auger

BORING DIA.: 10.5 Inches

BORING DEPTH: 18.0 Feet

DEPTH TO WATER: 3.0 Feet

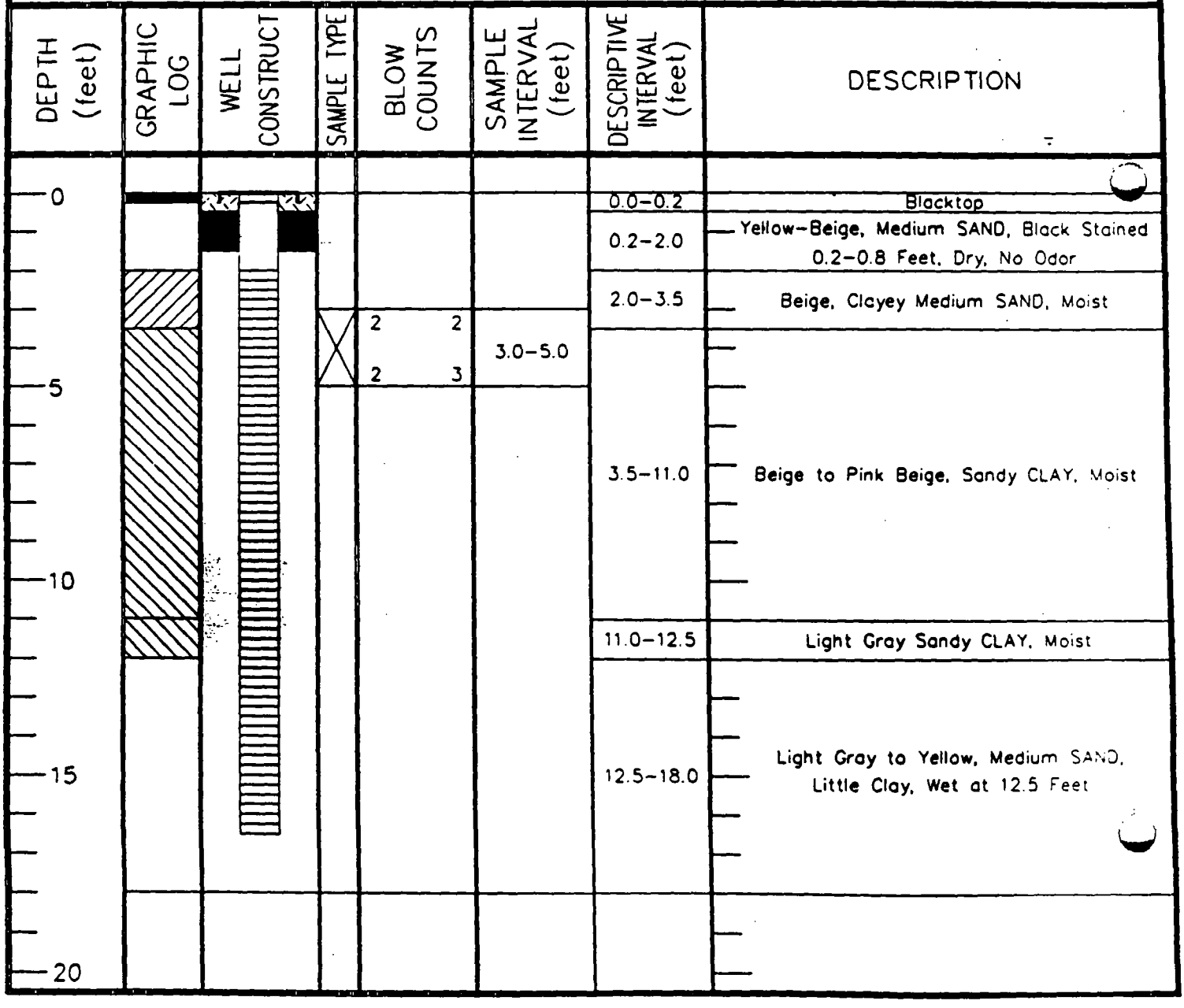
WELL CASING
LENGTH: 1.5 Feet
DIA.: 4 Inches
TYPE: Schedule 40 PVC

WELL SCREEN
LENGTH: 15 Feet
DIA.: 4 Inches
SLOT SIZE: No. 10

WELL DEVELOPMENT
TIME: 30 Minutes
METHOD: Centrifigal Pump
EST. YIELD: 8gpm

COMMENTS:

05



ENVIRON
BORING/WELL LOG

BORING/WELL# MW6

DATE: April 15, 1993

LOGGED BY: Clement Ockay

DRILLING CO.: Layne Environmental Services

DRILLER: Vance Biehl

RIG: CME-55

METHOD: Hollow-Stem Auger

BORING DIA.: 10.5 Inches

BORING DEPTH: 18.0 Feet

DEPTH TO WATER: 4.0 Feet

WELL CASING

LENGTH: 4.5 Feet

DIA.: 4 Inches

TYPE: Schedule 40 PVC

WELL SCREEN

LENGTH: 15 Feet

DIA.: 4 Inches

SLOT SIZE: No. 10

WELL DEVELOPMENT

TIME: 20 Minutes

METHOD: Centrifigal Pump

EST. YIELD: 7gpm

PROJECT: Brockway Standard
Homerville, Georgia

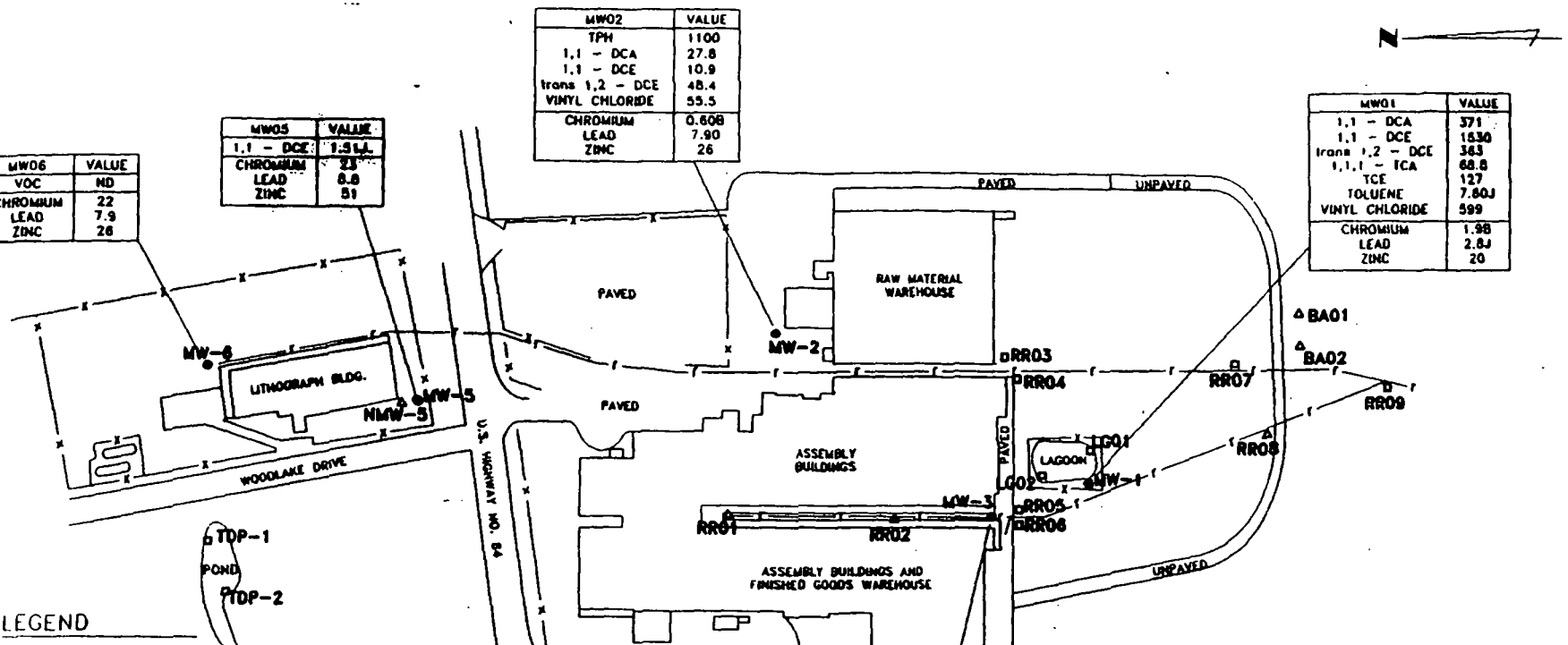
CASE # 01-3212C

COMMENTS:

- Soil sample 3212A-MW06-SB01 Collected from splitspoon and analyzed for total petroleum hydrocarbons, volatile organics and chromium, lead and zinc.

06

DEPTH (feet)	GRAPHIC LOG	WELL CONSTRUCT	SAMPLE TYPE	BLOW COUNTS	SAMPLE INTERVAL (feet)	DESCRIPTIVE INTERVAL (feet)	DESCRIPTION
0							
			X	2 2 / 3 3	1.5-3.5	0.0-4.5	Beige to Yellow-Beige, Fine SAND Brown at 1.5-3.0 feet with Slight Chemical Odor, Moist
5						4.5-8.0	Yellow-Beige, Clayey SAND, Moist
10						8.0-12.0	Beige, Sandy CLAY, Moist
15						12.0-18.0	Beige, Clayey SAND, Wet at 12.0 Feet
20							



MW06	VALUE
VOC	ND
CHROMIUM	22
LEAD	7.9
ZINC	26

MW05	VALUE
1,1 - DCE	1.5 LJ
CHROMIUM	23
LEAD	8.8
ZINC	51

MW02	VALUE
TPH	1100
1,1 - DCA	27.8
1,1 - DCE	10.9
trans 1,2 - DCE	48.4
VINYL CHLORIDE	55.5
CHROMIUM	0.608
LEAD	7.90
ZINC	26

MW01	VALUE
1,1 - DCA	371
1,1 - DCE	1530
trans 1,2 - DCE	363
1,1,1 - TCA	68.8
TCE	127
TOLUENE	7.80J
VINYL CHLORIDE	599
CHROMIUM	1.98
LEAD	2.8J
ZINC	20

MW04	VALUE
CHLOROETHANE	74.1
1,1 - DCA	562
1,1 - DCE	431
trans 1,2 - DCE	57.4
ETHYLBENZENE	15.3J
MC	5.41J
1,1,1 - TCA	741
VINYL CHLORIDE	168
XYLENE(S)	21.9J
CHROMIUM	2.208
LEAD	6.0
ZINC	9.38

MW03	VALUE
CHLOROETHANE	1010
1,1 - DCA	2890
1,1 - DCE	5620
trans 1,2 - DCE	1400
1,1,1 - TCA	1050
TCE	637
TOLUENE	185
VINYL CHLORIDE	8400
CHROMIUM	5.70
LEAD	4.9J
ZINC	16J

PRIMARY MCLs

COMPOUND	MCL (µg/L)
TPH	NONE
CHLOROETHANE	NONE
1,1 - DCA	NONE
1,1 - DCE	7
trans 1,2 - DCE	100
ETHYLBENZENE	700
MC	NONE
1,1,1 - TCA	200
TCE	5
TOLUENE	1000
VINYL CHLORIDE	2
XYLENE(S)	10000
CHROMIUM	100
LEAD	15
ZINC	5000*

* SECONDARY MCL

LEGEND

- BUILDING OUTLINE
- FENCE
- RAILROAD TRACKS
- MW-2 MONITORING WELL
- RR08 SOIL SAMPLE LOCATION
- LG01 SEDIMENT SAMPLE LOCATION

TPH : TOTAL PETROLEUM HYDROCARBONS
1,1 - DCA : 1,1 - DICHLOROETHANE
1,1 - DCE : 1,1 - DICHLOROETHYLENE
trans 1,2 - DCE : TRANS 1,2 - DICHLOROETHYLENE
MC : METHYL CHLORIDE
1,1,1 - TCA : 1,1,1 - TRICHLOROETHANE
TCE : TRICHLOROETHYLENE
VOC : VOLATILE ORGANIC COMPOUNDS

B - THIS RESULT IS QUALITATIVELY SUSPECT SINCE THIS COMPOUND WAS DETECTED IN FIELD AND/OR LABORATORY BLANKS AT SIMILAR LEVELS.
J - QUANTITATION IS APPROXIMATE DUE TO LIMITATIONS IDENTIFIED DURING THE QUALITY ASSURANCE REVIEW. (DATA VALIDATION)
NA - NOT ANALYZED
ND - COMPOUND NOT DETECTED

APPROXIMATE SCALE IN FEET
0 200 400

REFERENCE: ORIGINAL DRAWING TAKEN FROM ENVIRON ENVIRONMENTAL INVESTIGATION MAY 11, 1993.

NOTES:
1. COMPOUNDS NOT DETECTED ARE NOT LISTED.
2. TPH ANALYZED BY EPA METHOD 418.1, VOC ANALYZED BY EPA METHOD 8240, METALS ANALYZED BY EPA METHOD 6010.
3. ALL RESULTS ARE ppb (µg/L).

Golder Associates — Atlanta, Georgia

BROCKWAY/HOMERVILLE/GA

TITLE: PREVIOUS EVENT GROUNDWATER SAMPLE RESULTS

DRAWN: R.C.A. | DATE: 2/16/94 | JOB NO. 943-3627
SCALE: AS SHOWN | DWG. NO. 3

B - THIS RESULT IS QUALITATIVELY SUSPECT SINCE THIS COMPOUND WAS DETECTED IN FIELD AND/OR LABORATORY BLANKS AT SIMILAR LEVELS.

J - QUANTITATION IS APPROXIMATE DUE TO LIMITATIONS IDENTIFIED DURING THE QUALITY ASSURANCE REVIEW. (DATA VALIDATION)

RR01	SB01
TPH	20000
1,1,1 - TCA	0.014
TCFM	0.0056J
CHROMIUM	45
LEAD	1380
ZINC	488

RR02	SB01
TPH	2600
MEK	64.1
1,1,1 - TCA	1.78
TOLUENE	38.9
XYLENE(S)	4.72J
CHROMIUM	295
LEAD	3120
ZINC	663

RR03	SS01
TPH	32.3
VOC	ND
CHROMIUM	7.5
LEAD	15
ZINC	38

RR07	SS01
TPH	77.9
CHLOROETHANE	0.109
XYLENE(S)	0.024J
CHROMIUM	22
LEAD	83
ZINC	392J

NMW5	SB01
TPH	614
VOC	ND
CHROMIUM	11
LEAD	35
ZINC	288

MW06	SB01
TPH	22.3
MC	0.010
XYLENE(S)	0.011
CHROMIUM	2.20
LEAD	2.08
ZINC	4.60

RR04	SS01
TPH	1210
XYLENE(S)	0.0072
CHROMIUM	44
LEAD	290
ZINC	210

BA01	SB01	SB02
TPH	28.2	NA
VOC	NA	NA
CHROMIUM	3.7	NA
LEAD	9.7	NA
ZINC	2.38	NA

BA02	SB01	SB02
TPH	37.7	NA
TCFM	NA	0.01J
CHROMIUM	3.9	NA
LEAD	10	NA
ZINC	2.58	NA

RR09	SS01
TPH	200
ETHYLBENZENE	0.03
TCFM	0.14
TOLUENE	3.81
XYLENE(S)	0.5
CHROMIUM	339
LEAD	1450
ZINC	2880

TDP1	SS01
TPH	169
VOC	ND
CHROMIUM	1.60
LEAD	2.608
ZINC	3.70

TDP2	SS01
TPH	1360
MC	0.0052
CHROMIUM	1.90
LEAD	3.708
ZINC	5.50

LG01	SS01
TPH	470
VOC	ND
CHROMIUM	110
LEAD	40
ZINC	550

RR08	SB01	SB02
TPH	45.5	NA
MEK	NA	0.01
CHROMIUM	53	NA
LEAD	420	NA
ZINC	110J	NA

LG02	SS01
TPH	14700
TOLUENE	0.006J
CHROMIUM	5110
LEAD	410
ZINC	55700

NMW4	SB01
TPH	114
trans 1,2 - DCE	0.0070
CHROMIUM	1.70
LEAD	8.90
ZINC	9.40

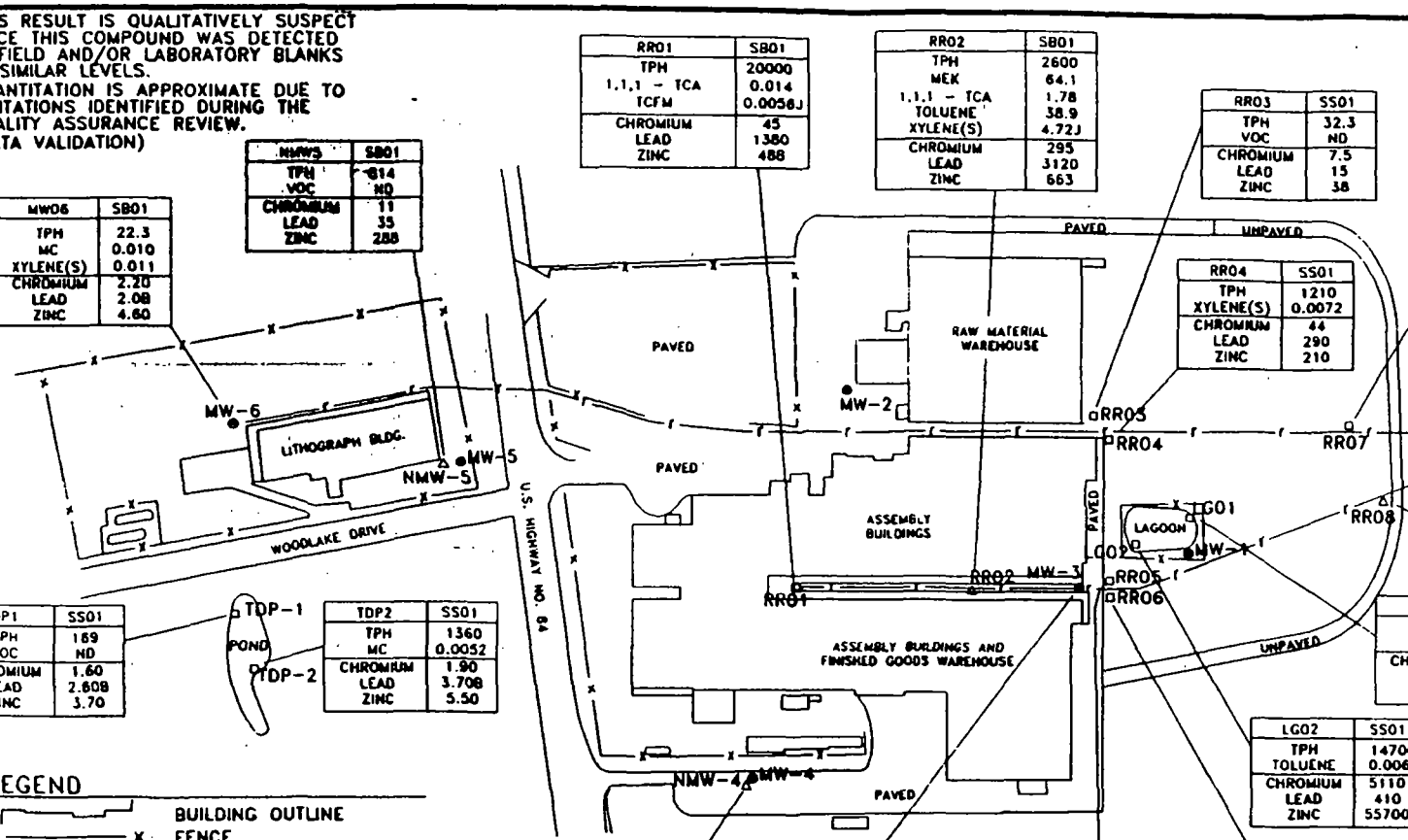
MW03	SB01
TPH	38.4
CHLOROETHANE	0.029
1,1 - DCA	0.046
MC	0.0073
MEK	0.0089J
1,1,1 - TCA	0.015
CHROMIUM	5.70
LEAD	6.308
ZINC	2.1J

RR05	SS01
TPH	1100
VOC	ND
CHROMIUM	35
LEAD	180
ZINC	377

RR06	SS01
TPH	10300
CHLOROETHANE	2.72
1,1 - DCA	18.1
trans 1,2 - DCE	14.2
PCE	0.48J
1,1,1 - TCA	21.1
TCE	1.58
CHROMIUM	423
LEAD	3300
ZINC	4930

COMPOUND	SOIL REFERENCE VALUE (ppm)
TPH	NONE
CHLOROETHANE	NONE
1,1 - DCA	0.030
trans 1,2 - DCE	0.530
MC	0.080
MEK	0.790
PCE	0.180
1,1,1 - TCA	3.44
TCE	0.130
TCFM	0.705
TOLUENE	14.4
XYLENE(S)	20.0
CHROMIUM	1200
LEAD	300
ZINC	2800

SOURCE: GEORGIA RULES FOR HAZARDOUS SITE RESPONSE, GAC 391-3-19 REV. DEC. 15, 1993.



LEGEND

- BUILDING OUTLINE
- x ——— x FENCE
- r ——— r RAILROAD TRACKS
- MW-2 MONITORING WELL
- RR08 SOIL SAMPLE LOCATION
- LG01 SEDIMENT SAMPLE LOCATION

TPH : TOTAL PETROLEUM HYDROCARBONS
1,1 - DCA : 1,1 - DICHLOROETHANE
trans 1,2 - DCE : trans 1,2 - DICHLOROETHYLENE
MC : METHYL CHLORIDE
1,1,1 - TCA : 1,1,1 - TRICHLOROETHANE
TCE : TRICHLOROETHYLENE
TCFM : TRICHLOROFLUOROMETHANE
VOC : VOLATILE ORGANIC COMPOUNDS
PCE : TETRACHLOROETHYLENE
MEK : METHYL ETHYL KETONE
NA - NOT ANALYZED
ND - COMPOUND NOT DETECTED

NOTES:

1. TPH ANALYZED BY EPA METHOD 418.1, VOC ANALYZED BY EPA METHOD 8240, METALS ANALYZED BY EPA METHOD 6010.
2. ALL RESULTS ARE IN ppm (mg/kg).

APPROXIMATE SCALE IN FEET
0 200 400

REFERENCE: ORIGINAL DRAWING TAKEN FROM ENVIRON ENVIRONMENTAL INVESTIGATION MAY 11, 1995.

Golder Associates — Atlanta, Georgia

CLIENT/PROJECT: BROCKWAY/HOMERVILLE/GA

TITLE: PREVIOUS EVENT SOIL AND SEDIMENT SAMPLE RESULTS

DRAWN R.C.A. | DATE 2/16/94 | JOB NO. 943-3027
CHECKED | SCALE AS SHOWN | DWG. NO.
REVIEWED | FILE NO.

APPENDIX [illegible]

NEW BORING LOGS AND WELL [illegible]

2a

Golder Associates

Field Boring Log

DEPTH HOLE 26'	JOB NO. 943-3627	PROJECT KIE/Phase II/GA	BORING NO. MW-7
DEPTH SOIL DRILL 26'	GA INSP. FMB/RGHB	DRILLING METHOD HSA 4¼" ID	SHEET 1 OF 1
DEPTH ROCK CORE —	WEATHER Sunny	DRILLING COMPANY Environmental Explor.	SURFACE ELEV. ~182
NO. DIST. SA. 13 UD. SA. 0	TEMP. 78°F	DRILL RIG Mobile B-57 DRILLER D. Nelles	DATUM
DEPTH WL. ≈3'	HRS. PROD.	WT. SAMPLER HAMMER 140# DROP 30"	STARTED 1430, 4/11/94
TIME WL.	HRS. DELAYED	WT. CASING HAMMER — DROP —	COMPLETED 1830, 4/11/94

SAMPLE TYPES

A.S. AUGER SAMPLE
C.S. CHUNK SAMPLE
D.O. DRIVE OPEN
D.S. DENISON SAMPLE
P.S. PITCHER SAMPLE
R.C. ROCK CORE
S.T. SLOTTED TUBE
T.O. THIN-WALLED, OPEN
T.P. THIN-WALLED, PISTON
W.S. WASH SAMPLE

ABBREVIATIONS

BL BLACK
BR BROWN
C COARSE
CA CASING
CL CLAY
CLY CLAYEY
F FINE
FRAG FRAGMENTS
GL GRAVEL
LYD LAYERED
LI LITTLE
M MEDIUM
MIC MICACEOUS
MOT MOTTLED
NP NON-PLASTIC
OR ORANGE
ORG ORGANIC
PH PRESSURE HYDRAULIC
PN PRESSURE MANUAL
R RED
RES RESIDUAL
RK ROCK
SA SAMPLE
SAT SATURATED
SD SAND
SI SILT
SIY SILTY
SM SOME
TR TRACE
WL WATER LEVEL
WH WEIGHT OF HAMMER
Y YELLOW

SOIL DESCRIPTION - RANGE OF PROPORTION

"TRACE" -0-10% "SOME" 10-20%
"LITTLE" -0-10% "MID" 20-50%

RELATIVE DENSITY	BLOWS	CONSISTENCY	FIELD PRESSURE
VERY LOOSE VLS	0-4	VERY SOFT VS	EXTRUDES
LOOSE LS	4-10	SOFT S	MOLDS EASILY
COMPACT CP	10-30	FIRM FM	MOLDS
DENSE DN	30-50	STIFF ST	THUMB NIGHTS
VERY DENSE VDN	50	VERY STIFF VST	THUMBNAIL INDENT
		HARD H	RESISTS THUMBNAIL

ELEV. DEPTH	DESCRIPTION	BLOWS/FT	SAMPLES NO.	TYPE	HAMM. BLOWS PER 6 IN (FORCE)	REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0	GROUND SURFACE							(1) Loose, med. brown, f. SAND, little silt, rootlets, dry
		6	1	S	3-3 3-2	12/24		(2) v. loose, med. brown & tan, f. SAND, little silt, wet to 4.5'
2		2	2	DO	1-1 1-1	10/24		(3) 4.5-6.0: Compact, gray & or. CLAY and SAND, wet mottled mica
4		15	3	DO	3-5 10-11	20/24		(4) Compact, gray w/mottled red, CLAY and SAND wet, mica
6		30	4	DO	11-12 18-22	18/24		(5) Compact, gray w/little red-or. stratif. CLAY, some f. Sand wet.
8		21	5	DO	5-8 13-14	18/24		(6) Dense, gray, CLAY, li. sand, moist
10		32	6	DO	8-13 19-19	18/24		(7) 12-12.3 sca
12		18	7	DO	6-7 11-7	17/24		12.3-14, cp, li gray, f-vf SAND trace silt, wet
14		27	8	DO	3-8 19-2	20/24		(8) 14-15.5 cp, gray, f-vf SAND, some lo and silt, 15.5-16 white, fine SAND trace silt wet
16		31	9		11-13 18-16	22/24		(9) dn, pinkish tan, fine-vf SAND trace to some silt & clay (coloring is variable, some brown streaks, but mainly pinkish-tan)
18		21	10		8-9 12-11	23/24		(10) cp, saa
20		3	11		1-1 2-3	18/24		When sample #10 was retrieved, H_2O flowed into the augers with sand up to about 16". ∴ wash out augers with tremied potable H_2O
22		10	12		6-4 6-7	6/24		(11) very loose, saa trace clayey silt stringers trace med sand
24	EOB @ 26' BGS	4	13		7-2 2-6	20/24		(12) ls tan, f-m sand trace to little silt (core catcher broken)
26			14			/24		(13) ls, saa.
28			15			/24		End of Boring @ 26' BGS
30			16					
32			17					
34			18					
36								

Golder Associates

Field Boring Log

DEPTH HOLE 40'	JOB NO. 943-3627	PROJECT KSE / PHASE II / GA				BORING NO. MW-8A	
DEPTH SOIL DRILL 40'	QA INSP. SGHB	DRILLING METHOD HSA 4¼" ID				SHEET 1	OF 1
DEPTH ROCK CORE N/A	WEATHER p. cloudy	DRILLING COMPANY Env. Exploration				SURFACE ELEV.	
NO. DIST. SA. 20	UD. SA. —	TEMP. 76°F	DRILL RIG Mobile B-57	DRILLER David Nailes		DATUM MSL	
DEPTH WL. 02.6' BGS	HRS. PROD.	WT. SAMPLER HAMMER 140#	DROP 30"			STARTED 940, 4-12-94	
TIME WL.	HRS. DELAYED	WT. CASING HAMMER	DROP			COMPLETED 1500, 4-12-94	

SAMPLE TYPES

A.B.	AUGER SAMPLE	BL	BLACK
C.B.	CHUNK SAMPLE	BR	BROWN
D.O.	DRIVE OPEN	C	COARSE
D.S.	DENISON SAMPLE	CA	CASING
P.S.	PITCHER SAMPLE	CL	CLAY
R.C.	ROCK CORE	CLY	CLAYEY
S.T.	SLOTTED TUBE	F	FINE
T.O.	THIN-WALLED, OPEN	FRAG	FRAGMENTS
T.P.	THIN-WALLED, PISTON	GL	GRAVEL
W.S.	WASH SAMPLE	LYD	LAYERED
		L	LITTLE

ABBREVIATIONS

M	MEDIUM	SA	SAMPLE
MIC	MICACEOUS	SAT	SATURATED
MOT	MOTTLED	SD	SAND
MP	NON-PLASTIC	SI	SILT
OG	ORANGE	SIY	SILTY
ORG	ORGANIC	SM	SOME
PH	PRESSURE-HYDRAULIC	TR	TRACE
PM	PRESSURE-MANUAL	WL	WATER LEVEL
R	RED	WH	WEIGHT OF HAMMER
RES	RESIDUAL	Y	YELLOW
RX	ROCK		

SOIL DESCRIPTION - RANGE OF PROPORTION

"TRACE" - 0 - 1% "SOME" - 12 - 30%
"LITTLE" - 1 - 12% "AND" - 30 - 50%

RELATIVE DENSITY	BLOWS	CONSISTENCY	PENETR. PRESSURE
VERY LOOSE VLS	0-4	VERY SOFT VS	EXTRUDES
LOOSE LS	4-10	SOFT S	MOLDS EASILY
COMPACT CP	10-30	FIRM FM	MOLDS
DENSE DN	30-50	STIFF ST	TRIMS WITH DIFF.
VERY DENSE VDN	50	VERY STIFF VST	THUMBNAIL DENT
		HARD H	RESISTS THUMBNAIL

ELEV. DEPTH	DESCRIPTION	BLOWS/FT	SAMPLES NO.	TYPE	BLOWS PER 6 IN (FORCE)	REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0	Ground Surface							(1) 0-0.3 Topsoil
		13	1	DO	5-6-7-6	13/24	0-2	0.3-1.3 cp, tan and brown Fine SAND some silt & clay.
2		11	2	DO	6-6-5-2	21/24	2-4	(2) 2-3' cp, gray fine SAND, little silt, trace clay. wet WL = 2.6' BGS 3-4' gray, Fine SAND, some silt & clay
4		10	3	DO	4-3-7-9	24/24	4-6	(3) cp, 4-5' saa 5'-6' gray with tan mottles, Fine SAND and silty clay.
6		35	4	DO	13-16-19-19	22/24	6-8	(4) dn, 6-7' saa 7-8' gray, Fine SAND, some silt, clay tan coarse mottling.
8		45	5	DO	10-17 28-32	20/24	8-10	(5) dn, 8-8.6 saa 8.6-10' tan Fine SAND some med sand little silty clay, orange mottles
10		40	6	DO	7-15 25-25	24/24	10-12	(6) dn, tan fine-med SAND, trace coarse sand trace silt. orange mottles 11.5-
12		44	7	DO	4-12-32-26	24/24	12-14	(7) dn, 12-13.5 saa, but no mottles 13.5-14 lt gray, f-m SAND little coarse sand trace silt. Few pink & orange
14		41	8	DO	10-18-23-24	24/24	14-16	(8) dn, lt gray, med SAND, trace silt 11 to 14 fine sand trace coarse sand (so
16		38	9	DO	6-16 22-17	24/24	16-18	(9) dn, saa with trace gravel. driller inserted tremie pipe into auger & Flushed out sand from within.
18		27	10	DO	14-11-16-17	24/24	18-20	(10) cp. saa. gravel = 1cm size
20		12	11	DO	3-3-4-12	24/24	20-22	(11) cp. saa
22		~~89~~	~~12~~	~~DO~~	~~15-31 58-59/4"~~	~~0/24~~	~~22-24~~	(12) vdn no sample collected
24		89	13	DO	15-31 58-59/4"	16/24	24-26	(13) vdn. light gray, coarse SAND and f-m sand. trace PO4 nodules trace silt. trace silty clay blebs (Spoon appeared to be overfilled in high flow zone)
26		62	14	DO	11-32-30-46	24/24	26-28	(14) vdn saa. Prior to all following samples.
28		75	15	DO	10-26-49-50	24/24	28-30	(15) 28.8-29.5 vdn saa 29.5-30 tan F. SAND, stratified w/ orange layers (<0.1' thick) trace silt & clay
30		90	16	DO	20-40 50/5"-5¼"	24/24	30-32	(16) vdn saa Only 10" of spoon was true sample, 14" was cave-in material.
32		78	17	DO	28-50/5"	24/24	32-34	(17) vdn. gray, fine SAND trace silt. only 8" true sample.
34		77	18	DO	20-27-50.	24/24	34-36	(18) vdn. saa only 3" true sample
36		26	19	DO	14-13-13-8	24/24	36-38	(19) cp saa v. thin clay stringer @ ~38'
38		11	20	DO	55-6-8	24/24	38-40	(20) cp gray, med SAND little gravel some coarse sand, little silt & clay clayey layer @ 39.9' 16" true sample
40	END of Boring @ 40' BGS							END OF BORING @ 40' BGS

1:19-19 15:44 35-47

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Field Boring Log

DEPTH HOLE 31.0'	JOB NO. 943-3627	PROJECT K&E / PHASE II / GA		BORING NO. MW-9	
DEPTH SOIL DRILL 31.0	GA INSP. SGHB	DRILLING METHOD Mud Rotary -6" bit		SHEET 1 OF 1	
DEPTH ROCK CORE —	WEATHER cloudy	DRILLING COMPANY Environmental Exploration		SURFACE ELEV.	
NO. DIST. SA. 7 UD. SA. —	TEMP. 62°F	DRILL RIG Mobile Drill B-57	DRILLER D. Nelles	DATUM MSL	
DEPTH WL.	HRS. PROD.	WT. SAMPLER HAMMER 140 lbs.	DROP 30"	STARTED 1650, 4-14-94	
TIME WL.	HRS. DELAYED	WT. CASING HAMMER —	DROP —	COMPLETED 1700, 4-14-94	

SAMPLE TYPES

A.S.	AUGER SAMPLE	BL	BLACK
C.S.	CHUNK SAMPLE	BR	BROWN
D.O.	DRIVE OPEN	C	COARSE
D.S.	DENISON SAMPLE	CA	CASING
P.S.	PITCHER SAMPLE	CL	CLAY
R.C.	ROCK CORE	CLY	CLAYEY
S.T.	SLOTTED TUBE	F	FINE
T.O.	THIN-WALLED, OPEN	FRAG	FRAGMENTS
T.P.	THIN-WALLED, PISTON	GL	GRAVEL
W.S.	WASH SAMPLE	LYD	LAYERED
		L	LITTLE

ABBREVIATIONS

M	MEDIUM	SA	SAMPLE
MIC	MICACEOUS	SAT	SATURATED
MOT	MOTTLED	SD	SAND
NP	NON-PLASTIC	SI	SILT
OG	ORANGE	SLT	SILTY
ORG	ORGANIC	SM	SOME
PH	PRESSURE-HYDRAULIC	TR	TRACE
PM	PRESSURE-MANUAL	WL	WATER LEVEL
R	RED	WH	WEIGHT OF HAMMER
RES	RESIDUAL	Y	YELLOW
RK	ROCK		

SOIL DESCRIPTION - RANGE OF PROPORTION

"TRACE" 0-10% "SOME" 12-20%
"LITTLE" 0-10% "AND" 30-50%

RELATIVE DENSITY		BLOWS	CONSISTENCY		PORE PRESSURE
VERY LOOSE	VLS	0-4	VERY SOFT	VS	EXTRUDES
LOOSE	LS	4-10	SOFT	S	MOLDS EASILY
COMPACT	CP	10-30	FIRM	FM	MOLDS
DENSE	DN	30-50	STIFF	ST	THUMB INDENTS
VERY DENSE	VDN	50	VERY STIFF	VST	THUMBNAIL INDENTS
			HARD	H	RESISTS THUMBNAIL

ELEV. DEPTH	DESCRIPTION	BLOWS/FT	SAMPLES NO.	TYPE	HAMMER BLOWS PER 6 IN (FORCE)	REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0.0	Ground Surface							① dn, 0-0.3 "topsoil" = fill material
		38	1	DO	6-19-19-19	14/24	0-2	0.3-0.5 asphalt
2								0.5-2.0 brn. Fine SAND little to some silt. Few tan mottles mo
4								→ some "fill" material mixed in gravels & bitumen
		12	2	DO	7-7-5-3	18/24	4-6	② cp, 4-5 gray fine SAND and silty clay. Few tan mottles. wet
6								∴ 5.0-5.3 gray sandy CLAY
								*Driller thinks the int/sample interval was missed?
8								9.0-9.3 gray sandy CLAY, orange mo
								③ udn, 9.3-9.6 gray Fine SAND and clay thin interfingered clay lenses.
10		57	3	DO	22-24-33-28	17/24	9-11	mottled with tan, pink & orange.
								9.6-10 yellow, fine SAND and clay
12								10.0-10.4 orange fine SAND, trace to little silty clay. Grain size coarsening downward. Chlorine decreases downward.
14		47	4	DO	20-19-28-28	23/24	14-16	④ dn, 14-14.5 light gray fine SAND and clay trace gravel.
16								14.5-15.9 light gray f-m SAND, trace silt, trace coarse sand. trace gravel.
18								Yellow zone @ 15.3-15.6
20		35	5	DO	14-16-19-14	24/24	19-21	⑤ dn, light gray f-m-c SAND, trace gravel. trace silt.
22								(no grading evident in entire 2' sam
24								very soft
		37	6	DO	3-13-24-19	24/24	24-26	⑥ dn, 24-25 - dk gray silty CLAY
26								@ 25' is fossilized pine cone.
								25-26 gray fine SAND, trace silt.
28								26.0-26.1 dk gray f-m-c SAND and CL
30	END OF BORING	30	7	DO	16-15-15-15	23/24	29-31	⑦ dn, gray f-m SAND, trace to little silt. thin clay layer @ 29.8 (1cm)
32	@ 31.0' BGS							

Golder Associates

Field Boring Log

DEPTH HOLE	27.0'	JOB NO.	943-3627	PROJECT	K&E / Phase II / GA	BORING NO.	MW-10
DEPTH SOIL DRILL	27.0'	GA INSP.	BGHB	DRILLING METHOD	Mud Rotary 6" bit	SHEET	1 OF 1
DEPTH ROCK CORE	—	WEATHER	p. cloudy	DRILLING COMPANY	Environmental Exploration	SURFACE ELEV.	
NO. DIST. SA.	5 UD. SA. —	TEMP.	80°	DRILL RIG	Mobile Drill B57 DRILLER D. Nalles	DATUM	MSL
DEPTH WL.		HRS. PROD.		WT. SAMPLER HAMMER	140# DROP 30"	STARTED	1130, 4-14-94 (Time, Date)
TIME WL.		HRS. DELAYED		WT. CASING HAMMER	DROP	COMPLETED	1300, 4-14-94

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED
C	COARSE	MOT	MOTTLED	SD	SAND
CA	CASING	NP	NON-PLASTIC	SI	SILT
CL	CLAY	OG	ORANGE	SIY	SILTY
CLY	CLAYEY	ORG	ORGANIC	SM	SOME
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER
LYD	LAYERED	RES	RESIDUAL	Y	YELLOW
LI	LITTLE	RX	ROCK		

SOIL DESCRIPTION - RANGE OF PROPORTION

"TRACE" -0-5% "SOME" -12-20%
"LITTLE" -5-12% "AND" 20-50%

RELATIVE DENSITY		BLOWS	CONSISTENCY		FINGER PRESSURE
VERY LOOSE	VLS	0-4	VERY SOFT	VS	EXTRUDES
LOOSE	LS	4-10	SOFT	S	MOLDS EASILY
COMPACT	CP	10-20	FIRM	FM	MOLDS
DENSE	DN	20-50	STIFF	ST	THUMB INDENTS
VERY DENSE	VDN	50	VERY STIFF	VST	THUMBNAIL INDENT
			HARD	H	RESISTS THUMBNAIL

ELEV. DEPTH	DESCRIPTION	BLOWS/FT	SAMPLES NO.	TYPE	HAMM. BLOWS PER 6 IN (FORCE)	REC./ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0	Ground Surface							(1) cp. 4.0-4.7', light gray, fine SAND and silty clay, orange mottles 4.7-6.0' light gray silty CLAY some to and fine sand. Orange & Red mottling. 5.6-5.8' very strongly mottled "oxidized" zone. Bright Red clay.
2								
4		23	1	DO	4-8-15 20	22/24	4-6	
6								
8	Light gray & orange, fine SAND little to some silt & clay.	10	2	DO	10-6-4 6	23/24	8-10	(2) cp. 8-8.1 saa 8.1-9.0 light gray fine SAND little to some silt. 9.0-9.5 orange, fine SAND, little to some silty clay. 9.5-10 light gray, sandy CLAY with trace orange mottles. Driller thinks clay penetrated @ ≈ 12-12.5 ft. BGS
10								
12								
14		21	3	DO	9-9-12 13	18/24	14-16	(3) cp. light gray to white, fine SAND trace silt. (Very clean sand, well sorted. Upper part of spoon stained brown by drilling mud.)
16								
18								
20		23	4	DO	15-12-11 -11	20/24	19-21	(4) cp. 19-20.4 light gray to white, fine SAND, little to some silt & clay. 20.4-21 light gray, m-c SAND, little gravel. * Driller drilled to 24' BGS & circulated mud through borehole. When sample rod string placed in hole. Depth indicated was 25' ∴ mud circulation is washing down hole → coarse SAND
22								
24		84	5	DO	35-37-47-44	21/24	25-27	
26	End of Boring @ 27.0' BGS							(5) vdn, tan to orange, f-m SAND some little coarse sand, trace silt, 1300 hrs trace little gravel. orange-red mottles in 25-28 foot interval. Boring terminated @ 27' BGS
28								

Field Boring og

DEPTH HOLE 26.0	JOB NO. 743-3627	PROJECT K&E / PHASE II / GA		BORING NO. MW-11	
DEPTH SOIL DRILL 26	GA INSP. [illegible]	DRILLING METHOD Mud Rotary 6" bit		SHEET 1 OF 1	
DEPTH ROCK CORE NA	WEATHER Sunny	DRILLING COMPANY Environmental Exploration		SURFACE ELEV.	
NO. DIST. SA. 5 UD. SA. –	TEMP. 86°F	DRILL RIG Mobile Drill B-57	DRILLER D. Walles	DATUM MSL	
DEPTH WL.	HRS. PROD.	WT. SAMPLER HAMMER 140#	DROP 30°	STARTED 1440, 4-15-94	
TIME WL.	HRS. DELAYED	WT. CASING HAMMER –	DROP –	COMPLETED 1545, 4-15-94	

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.D.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.D.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED
C	COARSE	MOT	MOTTLED	SD	SAND
CA	CASING	NP	NON-PLASTIC	SI	SILT
CL	CLAY	OG	ORANGE	SIY	SILTY
CLY	CLAYEY	ORG	ORGANIC	SM	SOME
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER
LYD	LAYERED	RES	RESIDUAL	Y	YELLOW
LI	LITTLE	RK	ROCK		

SOIL DESCRIPTION - RANGE OF PROPORTION

"TRACE" -0-5% "SOME" -12-20%
"LITTLE" -5-12% "AND" -30-50%

RELATIVE DENSITY		BLOWS	CONSISTENCY		FINISH PRESSURE
VERY LOOSE	VLS	0-4	VERY SOFT	VS	EXTRUDES
LOOSE	LS	4-10	SOFT	S	MOLDS EASILY
COMPACT	CP	10-30	FIRM	FM	MOLDS
DENSE	DN	30-50	STIFF	ST	THUMB INDENTS
VERY DENSE	VDN	50	VERY STIFF	VST	THUMBNAIL INDENT
			HARD	H	RESISTS THUMBNAIL

ELEV. DEPTH	DESCRIPTION	BLOWS/FT	SAMPLES NO.	TYPE	HAMM. BLOWS PER 6 IN (FORCE)	REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0								(1) ls, gray, fine SAND, some clay (no grading apparent)
2								
4		6	1	DO	5-3-3-2	20/24	4-6	
6								
8								(2) dn. 9-9.5 gray fine SAND, trace to little silt, trace med sand
10		34	2	DO	11-15-19 20	16/24	9-11	9.5-10.3 dk brn, fine SAND trace silt. [The brn sand has a very slight, indistinguishable, odor. Am not sure if it is a natural "organic material" type odor or not]
12								
14		41	3	DO	18-18-23 19	17/24	14-16	(3) dn 14-15.1 pinkish-tense fine SAND trace silt @ 14.7' a very thin (<1cm) sandy clay lense
16								15.1-15.4 gray, f-m SAND trace coarse sand, trace silt
18								
20		29	4	DO	16-14-15-15	23/24	19-21	(4) 19-19.9 tan to gray f-m-c SAND, some clay, tan + pink mottles
22								19.9-20.9 gray, f-m SAND, trace coarse sand, trace to little clay, tan & pink mottles.
24		48	5	DO	25-24-24 34	24/24	24-26	(5) dn 24-25 gray f-m SAND, trace coarse sand, trace silt. few orange mottles
26								25-26 yellow-tan, fine SAND trace silt. og & br mottles.
28								
30								End of Boring @ 26.0' BGS

Golder Associates

Field Boring Log

DEPTH HOLE 26'	JOB NO. 943-3627	PROJECT KEE / PHASE II / GA		BORING NO. MW-12	
DEPTH SOIL DRILL 26'	QA INSP. BGHB	DRILLING METHOD Mud Rotary - 6"ø bit		SHEET 1 OF 1	
DEPTH ROCK CORE —	WEATHER P. Cloudy	DRILLING COMPANY Env. Exploration		SURFACE ELEV.	
NO. DIST. SA. 5 UD. SA. Ø	TEMP. 83°F	DRILL RIG Mobile Drill B-57	DRILLER D. Nalles	DATUM MSL	
DEPTH WL.	HRS. PROD.	WT. SAMPLER HAMMER 140 lb.	DROP 30"	STARTED 1100 (TIME) / 4-16-94 (DATE)	
TIME WL.	HRS. DELAYED	WT. CASING HAMMER —	DROP —	COMPLETED 1200 / 4-16-94	

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED
C	COARSE	MOT	MOTTLED	SD	SAND
CA	CASING	NP	NON-PLASTIC	SI	SILT
CL	CLAY	OG	ORANGE	SIY	SILTY
CLY	CLAYEY	ORG	ORGANIC	SM	SOME
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER
LYD	LAYERED	RES	RESIDUAL	Y	YELLOW
LI	LITTLE	RX	ROCK		

SOIL DESCRIPTION - RANGE OF PROPORTION

"TRACE" -0-10% "SOME" -12-20%
"LITTLE" -5-12% "AND" -20-50%

RELATIVE DENSITY		BLOWS	CONSISTENCY		FINGER PRESSURE
VERY LOOSE	VLS	0-4	VERY SOFT	VS	EXTRUDES
LOOSE	LS	4-10	SOFT	S	MOLDS EASILY
COMPACT	CP	10-20	FIRM	FM	MOLDS
DENSE	DN	20-50	STIFF	ST	THUMB INDENTS
VERY DENSE	VDN	50	VERY STIFF	VST	THUMBNAIL INDENT
			HARD	H	RESISTS THUMBNAIL

ELEV. / DEPTH	DESCRIPTION	BLOWS / FT	SAMPLES NO.	TYPE	HAMM. BLOWS PER 6 IN (FORCE)	REC / ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0	Ground Surface							① 4.0-4.8 loose, orange tan, clayey fine SAND. gray mottles
2								4.8-5.8 interfingered gray sandy CLAY and orange tan fine clayey SAND
4								5.8-6" gray, sandy CLAY
6		7	1	DO	4-3 4-6	24/24	4-6	
8								② 8-9.8 tan-light brn fine SAND, little m-c sand little silt.
10		32	2	DO	13-15-17-15	18/24	9-11	9.8-10.5 gray brn fine SAND trace m-c sand. trace silt.
12								
14								③ 14-15 cp. layered gray & tan f-m SAND sand is coarsening downward. trace silt.
16		20	3	DO	11-8-12-10	12/24	14-16	
18								④ dn f-m SAND, little coarse SAND (light gray) trace silt. fining downward.
20		34	4	DO	8-11-23-14	13/24	19-21	
22								⑤ compact light gray f-m SAND little coarse sand trace gravel few clayey sand blebs.
24								
26		13	5	DO	10-7-6-6	19/24	24-26	
28	EOB @ 26.0' BGS							
30								

Golder Associa

Field Boring Log

DEPTH HOLE 21'	JOB NO. 943-3627	PROJECT K&E / PHASE II / GA	BORING NO. MW-3A
DEPTH SOIL DRILL 21'	GA INSP. BGHB	DRILLING METHOD MUD Rotary 6" Tricone bit	SHEET 1 OF 1
DEPTH ROCK CORE NA	WEATHER p.cloudy	DRILLING COMPANY Env. Exploration	SURFACE ELEV.
NO. DIST. SA. 4 UD. SA. Ø	TEMP. 88°F	DRILL RIG Mobile Drill B-57	DRILLER D. Walker	DATUM MSL
DEPTH WL.	HRS. PROD. 1	WT. SAMPLER HAMMER 140lbs	DROP 30"	STARTED 1545, 4-16-94
TIME WL.	HRS. DELAYED 0.25	WT. CASING HAMMER —	DROP —	COMPLETED 1700, 4-16-94

SAMPLE TYPES

A.A.	AUGER SAMPLE	BL	BLACK
C.S.	CHUNK SAMPLE	BR	BROWN
D.O.	DRIVE OPEN	C	COARSE
D.S.	DENISON SAMPLE	CA	CASING
P.S.	PITCHER SAMPLE	CL	CLAY
R.C.	ROCK CORE	CLY	CLAYEY
S.T.	SLOTTED TUBE	F	FINE
T.O.	THIN-WALLED, OPEN	FRAG	FRAGMENTS
T.P.	THIN-WALLED, PISTON	GL	GRAVEL
W.S.	WASH SAMPLE	LYD	LAYERED
		LI	LITTLE

ABBREVIATIONS

M	MEDIUM	SA	SAMPLE
MIC	MICACEOUS	SAT	SATURATED
MOT	MOTTLED	SD	SAND
NP	NON-PLASTIC	SI	SILT
OG	ORANGE	SIY	SILTY
ORG	ORGANIC	SM	SOME
PH	PRESSURE-HYDRAULIC	TR	TRACE
PM	PRESSURE-MANUAL	WL	WATER LEVEL
R	RED	WH	WEIGHT OF HAMMER
RES	RESIDUAL	Y	YELLOW
RX	ROCK		

SOIL DESCRIPTION - RANGE OF PROPORTION

"TRACE" - 0 - 5% "SOME" - 12 - 30%
"LITTLE" - 6 - 12% "AND" - 30-50%

RELATIVE DENSITY		BLOWS	CONSISTENCY		FINGER PRESSURE	
VERY LOOSE	VLS	0-4	VERY SOFT	VS	EXTRUDES	
LOOSE	LS	4-10	SOFT	S	MOLDS EASILY	
COMPACT	CP	10-30	FIRM	FM	MOLDS	
DENSE	DN	30-50	STIFF	ST	THUMB INDENTS	
VERY DENSE	VDN	50	VERY STIFF	VST	THUMBNAIL INDENT	
			HARD	H	RESISTS THUMBNAIL	

ELEV. DEPTH	DESCRIPTION	BLOWS/FT	SAMPLES NO.	TYPE	HAMMER BLOWS PER 6 IN (FORCE)	REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
								This well is replacing MW-3 which will be overdrilled.
	Ground Surface							
0								(1) loose, very soft to soft, light gray sandy CLAY, strongly mottled (orange-tan) wet
2								
4								Driller said soil got hard after 1st sample through to top of 2nd sample @ 9' BGS
		5	1	DO	1-2-3-3	24/24	4-6	
6								
8								(2) 9-9.9 tan, fine SAND, little silt strong org. mottles
10		48	2	DO	18-22-26-21	16/24	9-11	9.9-10.0 yellow, fine SAND, trace silt. 10.0-10.1 orange, fine SAND, trace silt 10.1-10.3 bluish gray, fine SAND trace silt.
12								
14								(3) do light gray fine-med SAND, trace to little silt, trace coarse sand 14.2-14.3 sandy clay zone 15.1-15.2 SAND & GRAVEL zone.
		31	3	DO	11-12-19-19	17/24	14-16	
16								
18								
20		30	4	DO	11-14-16-21	17/24	19-21	(4) do, tan gray, fine SAND, trace to little silt.
22	End of Boring @ 21.0' BGS							
24								

MONITORING WELL INSTA__ATION LOG

JOB NO. 943-3627	PROJECT K&E / PHASE II / GA			WELL NO. MW-3A		SHEET 1	OF 1
GA INSP. BGHB	DRILLING METHOD Mud Rotary 6"ø tricone bit			GROUND ELEV.		WATER DEPTH	
WEATHER P. cloudy	DRILLING COMPANY Environmental Exploration			COLLAR ELEV.		DATE/TIME	
TEMP. 86°F	DRILL RIG Mobile Drill B-57	DRILLER D. Nelles		STARTED 1715 TIME	4-16-94 DATE	COMPLETED 1930 TIME	94

MATERIALS INVENTORY

WELL CASING	2 in. dia. 10 l.f.	WELL SCREEN	2 in. dia. 10 l.f.	BENTONITE SEAL	med. chips
CASING TYPE	SCH 40 PVC	SCREEN TYPE	SCH 40 PVC	INSTALLATION METHOD	hand placed
JOINT TYPE	Flush threaded.	SLOT SIZE	0.010" Factory slotted	FILTER PACK QTY	3 x 50 lb. bags.
GROUT QUANTITY	≈ 6 gallons.	CENTRALIZERS	NA	FILTER PACK TYPE	Silica sand
GROUT TYPE	cement / bentonite	DRILLING MUD TYPE	CETCO Super Gel X High Yield Bentonite Powder.	INSTALLATION METHOD	washed through tremie pipe w/ potable water

ELEV./DEPTH	SOIL/ROCK DESCRIPTION	WELL SKETCH	INSTALLATION NOTES
	GROUND SURFACE	2'x2' flush mount surface completion	Used: 1 x 10' screen
0.0		~2 cement/bentonite grout	3 x 5' Riser
2		~3.8'	Riser cut off at surface for flush mount surface completion
4		~2 bentonite seal	
6		~7.0'	
8		~10'	
10		~2 filter pack	
12			
14			
16			
18			
20		~20' End cap.	
22		End of Boring @ 21' BGS	WELL DEVELOPMENT NOTES
24			

MONITORING WELL INSTALLATION LOG

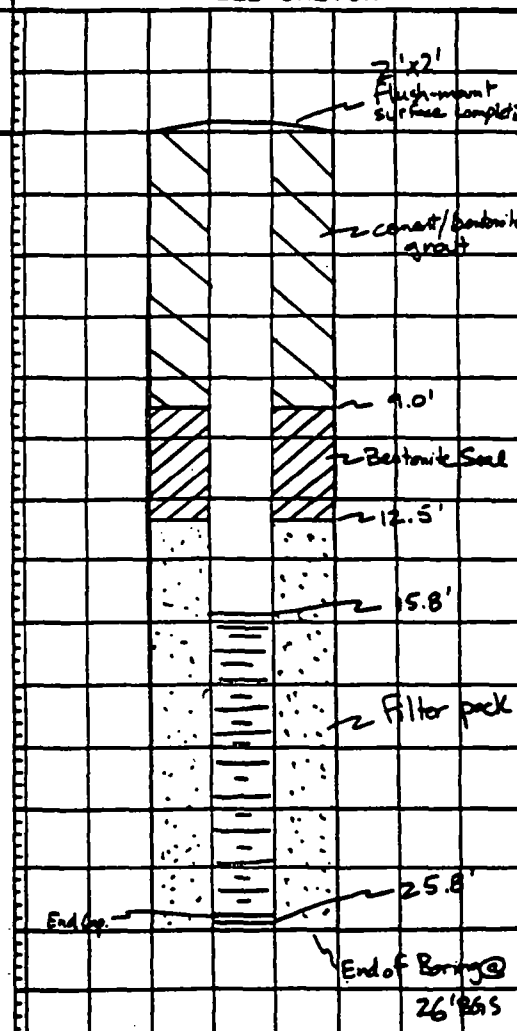
JOB NO. 943-3627	PROJECT K&E / PHASE II / GA	WELL NO. MW-7	SHEET 1 OF 1
GA INSP. BGHB	DRILLING METHOD HSA - 4 1/4" ID	GROUND ELEV.	WATER DEPTH
WEATHER Sunny	DRILLING COMPANY Environmental Exploration	COLLAR ELEV.	DATE/TIME
TEMP. 82°F	DRILL RIG Mobile Drill B-57 DRILLER D. Nalbo	STARTED 1700 (TIME) / 4-11-94 (DATE)	COMPLETED 1100 (TIME) / 4-13-94 (DATE)

MATERIALS INVENTORY

WELL CASING 2 in. dia. 15.7 l.f.	WELL SCREEN 2 in. dia. 10 l.f.	BENTONITE SEAL med. chips
CASING TYPE SCH40 PVC	SCREEN TYPE SCH 40 PVC	INSTALLATION METHOD hand placed
JOINT TYPE Flush threaded	SLOT SIZE 0.010" factory slotted	FILTER PACK QTY 5x50 lb bags
GROUT QUANTITY ≈14 gallons	CENTRALIZERS NA	FILTER PACK TYPE silica sand
GROUT TYPE cement / bentonite	DRILLING MUD TYPE NA	INSTALLATION METHOD washed through tremie w/potable water.

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	
2	
4	
6	
8	
10	
12	
14	
16	
18	
20	
22	
24	
26	
28	
30	

WELL SKETCH



INSTALLATION NOTES

Used 1x10' Screen
2x10' Risers
Cutoff at surface for Flush mount surface completion

Grout not placed same day as filter pack and bentonite seal.

WELL DEVELOPMENT NOTES

MONITORING WELL INSTALLATION LOG

JOB NO. 943-3627	PROJECT K&E / PHASE II / GA		WELL NO. MW-8	SHEET 1 OF 1	
GA INSP. BGHB	DRILLING METHOD Mud Rotary - 6"ϕ tricone bit		GROUND ELEV.	WATER DEPTH	
WEATHER p cloudy	DRILLING COMPANY Environmental Exploration		COLLAR ELEV.	DATE/TIME	
TEMP. 85F	DRILL RIG Mobile Drill B-57	DRILLER D. Nelles	STARTED 1626 / 4-13-94 (TIME / DATE)	COMPLETED 1030 (TIME / DATE) 4-13-94	

MATERIALS INVENTORY

WELL CASING 2 in. dia. 32.5 l.f.	WELL SCREEN 2 in. dia. 10 l.f.	BENTONITE SEAL med. chips
CASING TYPE SCH40 PVC	SCREEN TYPE SCH 40 PVC	INSTALLATION METHOD hand placed
JOINT TYPE flush threaded	SLOT SIZE 0.010" factory slotted	FILTER PACK QTY 5 x 50lb bags.
GROUT QUANTITY ≈40 gallons.	CENTRALIZERS NA	FILTER PACK TYPE silica sand
GROUT TYPE cement / bentonite	DRILLING MUD TYPE CETCO SuperGel X High Yield Bentonite Powder.	INSTALLATION METHOD washed through tremie pipe w/ potable water

ELEV./DEPTH	SOIL/ROCK DESCRIPTION	WELL SKETCH	INSTALLATION NOTES
		locking protective cover; ≈5' stickup; ≈2'x2' concrete pad	Used: 1 x 10' screen; 3 x 10' Riser; 1 x 5' Riser.
	GROUND SURFACE		
0.0			
2			One stage of grout, about 20 gallons placed immediately following placement of bentonite seal. Remainder placed later, after setup of first stage, to prevent grout contamination of well.
4			
6			
8		≈cement/bentonite grout	
10			
12			
14			
16			For lithology, see boring MW-8A, located 10's of MW-8
18			
20			
22			
24		≈23.7'	WELL DEVELOPMENT NOTES: Initial boring made using HSA, OD ≈ 7". Hole cleaned out w/ 6"ϕ mud rotary bit ∴ excess mud in annulus of borehole/well pipe.
26		≈Bentonite Seal; ≈27.0'	
28			
30		≈30.0'	
32			
34		≈filter pack	
36			
38			
40		≈40.0' ≈End Cap	
42			
44		End of Boring @43'	

MONITORING WELL INSTA. .ATION LOG

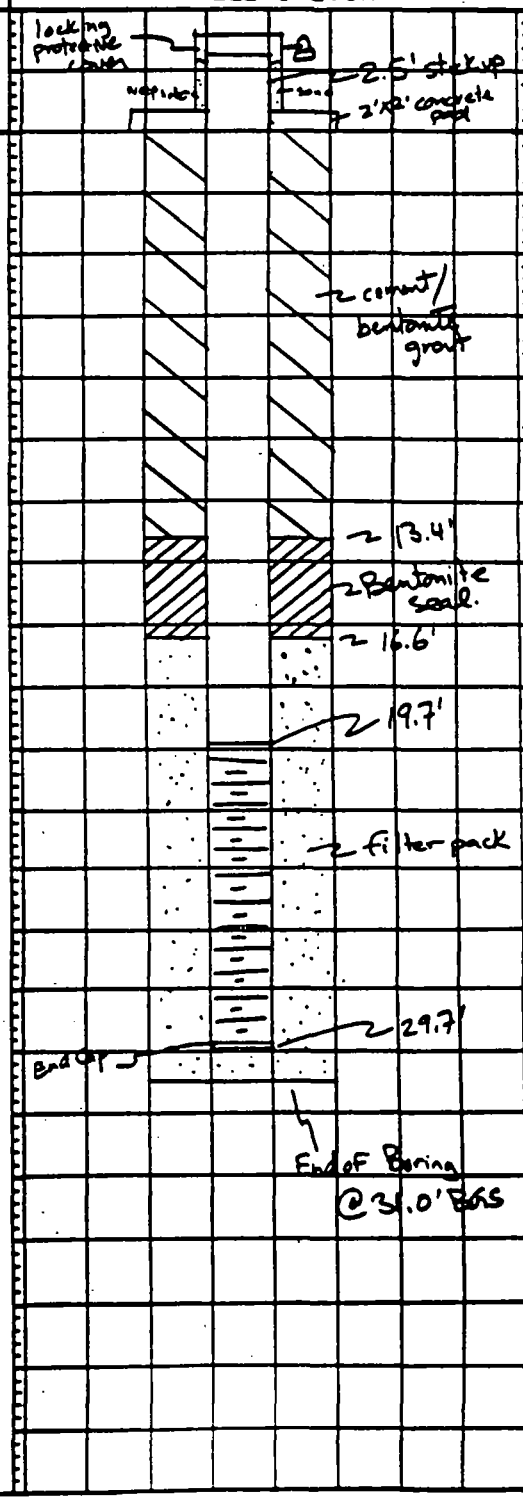
JOB NO. 943-3627	PROJECT K&E / PHASE II / GA			WELL NO. MW-9		SHEET 1 OF 1	
GA INSP. BGHB	DRILLING METHOD Mud Rotary - 6"ø tricone bit			GROUND ELEV.		WATER DEPTH	
WEATHER Sunny	DRILLING COMPANY Environmental Exploration			COLLAR ELEV.		DATE/TIME	
TEMP. 68°F	DRILL RIG Mobile Drill B-57	DRILLER D. Nolles		STARTED 930 / 4-5-94 (TIME / DATE)		COMPLETED 930 / 4-7-94 (TIME / DATE)	

MATERIALS INVENTORY

WELL CASING	2 in. dia. 22.5 ft	WELL SCREEN	2 in. dia. 10 ft	BENTONITE SEAL	med. chips
CASING TYPE	SCH 40 PVC	SCREEN TYPE	SCH 40 PVC	INSTALLATION METHOD	hand placed
JOINT TYPE	Flush threaded	SLOT SIZE	0.010" Factory slotted	FILTER PACK QTY	6 bags (50 lb)
GROUT QUANTITY	≈ 21 gallons	CENTRALIZERS	NA	FILTER PACK TYPE	silica sand
GROUT TYPE	cement / bentonite	DRILLING MUD TYPE	CETCO SuperGel X high yield Bentonite Powder	INSTALLATION METHOD	washed through tremie pipe w/ potable water

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	
2.	
4	
6	
8	
10	
12	
14	
16	
18	
20	
22	
24	
26	
28	
30	
32	

WELL SKETCH



INSTALLATION NOTES

Used: 1 x 10' screen
2 x 10' risers
1 x 5' riser.

Grout not placed on same day as filter pack and bentonite seal.

WELL DEVELOPMENT NOTES

MONITORING WELL INSTALLATION LOG

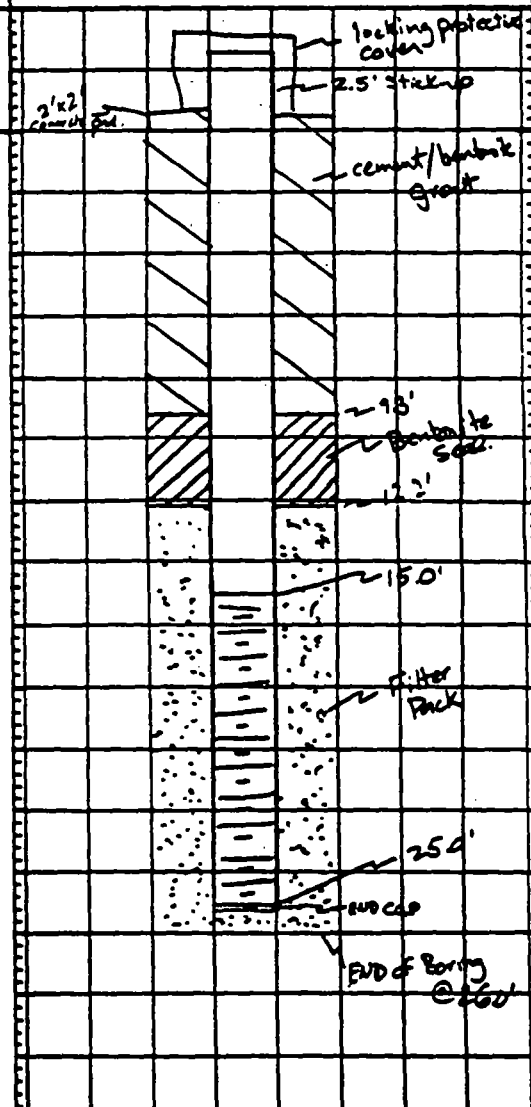
JOB NO. 943-3627	PROJECT KSE / PHASE II / GA	WELL NO. MW-10	SHEET 1 OF 1
GA INSP. RGHB	DRILLING METHOD Mud Rotary 6"ø bit	GROUND ELEV.	WATER DEPTH
WEATHER sunny	DRILLING COMPANY Environmental Exploration	COLLAR ELEV.	DATE/TIME
TEMP. 82°F	DRILL RIG Mobile Drill B57 DRILLER D Nelles	STARTED 1415 / 4-14-94 (TIME / DATE)	COMPLETED 4-14-94 (TIME / DATE)

MATERIALS INVENTORY

WELL CASING	2 in. dia. 17.5 ft	WELL SCREEN	2 in. dia. 10 ft	BENTONITE SEAL	bnd. chips
CASING TYPE	SCH40 PVC	SCREEN TYPE	SCH40 PVC	INSTALLATION METHOD	hand-placed
JOINT TYPE	flush threaded	SLOT SIZE	0.010"	FILTER PACK QTY	4 x 50 lb bags
GROUT QUANTITY	~15 gallons	CENTRALIZERS	—	FILTER PACK TYPE	silica sand - filtration
GROUT TYPE	cement/bentonite	DRILLING MUD TYPE	Cetco Super Gelx High Yield Bentonite Powder	INSTALLATION METHOD	tremie pipe mixed w/potable H2O

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	
2	
4	
6	
8	
10	
12	
14	
16	
18	
20	
22	
24	
26	
28	
30	
32	
34	

WELL SKETCH



INSTALLATION NOTES

Used 1x10' screen
2x10' Riser
cut off Riser to leave a 2.5" stick up.
Grout not placed on same day. Filter pack & seal were placed.

WELL DEVELOPMENT NOTES

MONITORING WELL INSTALLATION LOG

JOB NO. 943-3627	PROJECT K&E / PHASE II / GA		WELL NO. MW-11	SHEET 1 OF 1	
QA INSP. SGHB	DRILLING METHOD Mud Rotary - 6" ø bit		GROUND ELEV.	WATER DEPTH	
WEATHER Sunny	DRILLING COMPANY Environmental Exploration		COLLAR ELEV.	DATE/TIME	
TEMP. 86°F	DRILL RIG Mobile Drill • B-57	DRILLER D. Nelles	STARTED 1600 / 4-15-94 (TIME / DATE)	COMPLETED 1100 / 4-17-94 (TIME / DATE)	

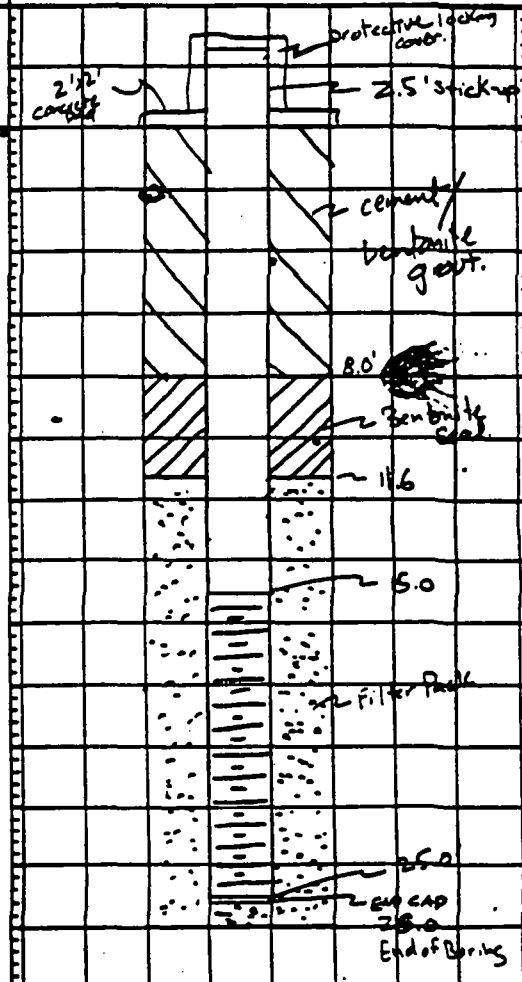
MATERIALS INVENTORY

WELL CASING 2	in. dia. 17.5	l.f.	WELL SCREEN 2	in. dia. 10	l.f.
CASING TYPE Sch 40 PVC			SCREEN TYPE 0.010" Factory slotted		
JOINT TYPE Flush-threaded			SLOT SIZE Sch 40 PVC		
GROUT QUANTITY ≈ 13 gal.			CENTRALIZERS NA		
GROUT TYPE Cement/bentonite			DRILLING MUD TYPE CETCO SuperGel X High Yield Bentonite Powder		

BENTONITE SEAL hand-placed
INSTALLATION METHOD med. chips
FILTER PACK QTY 3 x 50 lb bags
FILTER PACK TYPE Silica sand - Filtration
INSTALLATION METHOD 1" tremie pipe washed down w/ potable H_2O

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
GROUND SURFACE	
0.0	
2	
4	
6	
8	
10	
12	
14	
16	
18	
20	
22	
24	
26	
28	
30	

WELL SKETCH



INSTALLATION NOTES

Used 1x10' screen
2x10' risers
Cut off risers to leave a 2.5' stick-up

Grout not placed on the same day as was the Filter Pack & seal

WELL DEVELOPMENT NOTES

MONITORING WELL INSTALLATION LOG

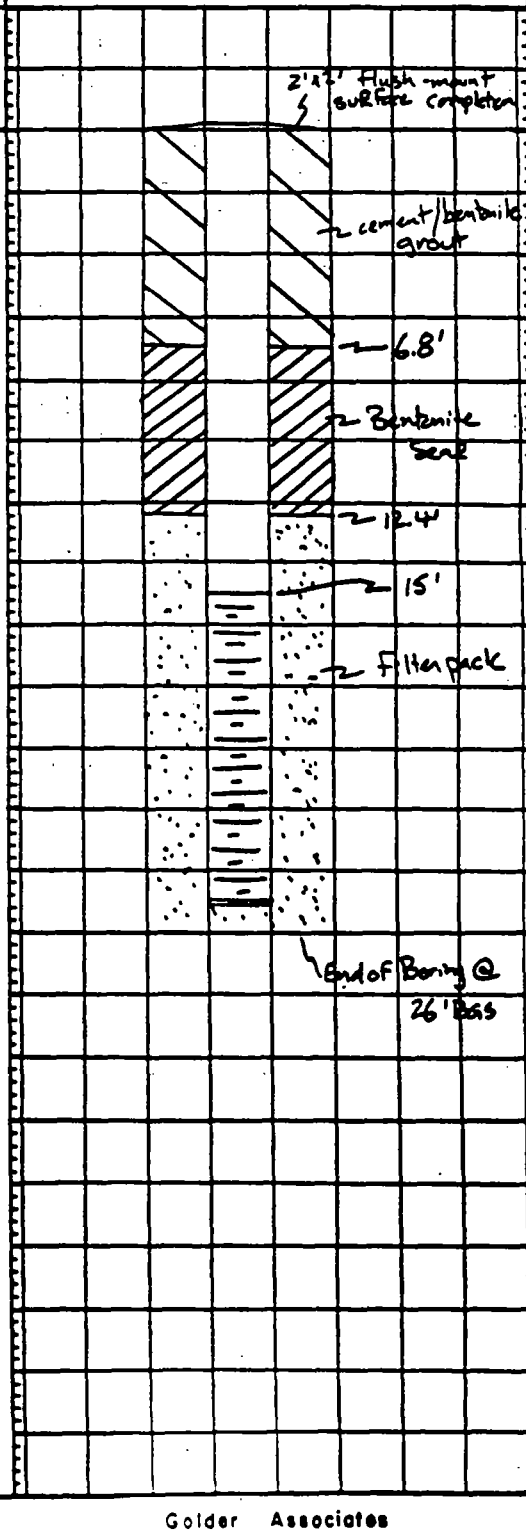
JOB NO. 943-3627	PROJECT K&E / PHASE II / GA	WELL NO. MW-12	SHEET 1 OF 1
QA INSP. BGHB	DRILLING METHOD Mud Rotary 6"ø tricone bit	GROUND ELEV.	WATER DEPTH
WEATHER P. cloudy	DRILLING COMPANY Environmental Exploration	COLLAR ELEV.	DATE/TIME
TEMP. 84°F	DRILL RIG Mobile Drill B-57 DRILLER D. Nelko	STARTED 1221 TIME / 4-16-93 DATE	COMPLETED 830 TIME / 4-17-93

MATERIALS INVENTORY

WELL CASING 2 in. dia. 14.9 l.f.	WELL SCREEN 2 in. dia. 10 l.f.	BENTONITE SEAL med. chips
CASING TYPE SCH40 PVC	SCREEN TYPE SCH 40 PVC	INSTALLATION METHOD hand placed
JOINT TYPE Flush threaded.	SLOT SIZE 0.010" Factory slotted	FILTER PACK QTY. 2+ x 50lb bags
GROUT QUANTITY ≈ 11 gallons	CENTRALIZERS NA	FILTER PACK TYPE silica sand
GROUT TYPE cement/bentonite	DRILLING MUD TYPE CETCO SuperGelX High Yield Bentonite Powder.	INSTALLATION METHOD washed through tremie pipe w/potable water.

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
GROUND SURFACE	
0.0	
2	
4	
6	
8	
10	
12	
14	
16	
18	
20	
22	
24	
26	
28	
30	

WELL SKETCH



INSTALLATION NOTES

Used: 1 x 10' Screen
1 x 10' Riser
1 x 5' Riser

Riser cut off @ surface for flush mount surface completion.

Grout not placed same day as filterpack & bentonite seal

WELL DEVELOPMENT NOTES

APPENDIX C

SLUG TEST ANALYSIS AND [illegible]

2a.

FALLING HEAD TEST MW-7

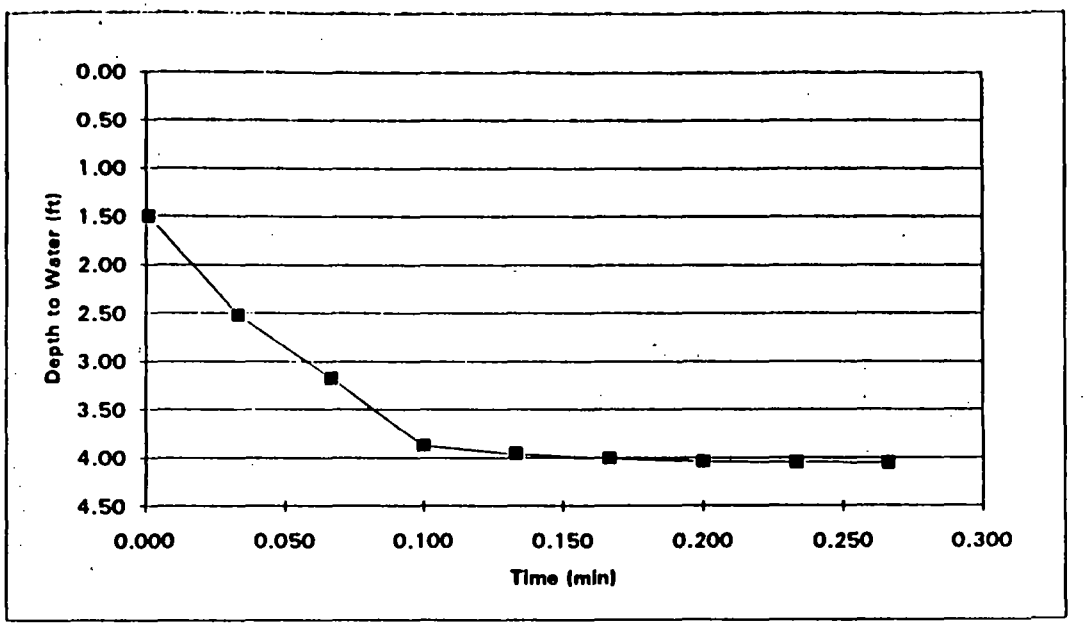
WELL ID NUMBER :	MW-7	
JOB NUMBER:	943-3627	
STATIC WATER DEPTH=	4.07	FT BELOW TOC
STATIC PRESSURE=	NA	PSI
STANDPIPE DIAMETER=	2.00	INCHES
SCREEN DIAMETER=	8.00	INCHES
TOP OF SCREEN=	12.50	FT BELOW TOC
BOTTOM OF SCREEN=	25.80	FT BELOW TOC
AQUIFER THICKNESS=	NA	NA or FEET

TO INDICATE BEST FIT LINE ENTER t1 AND t2

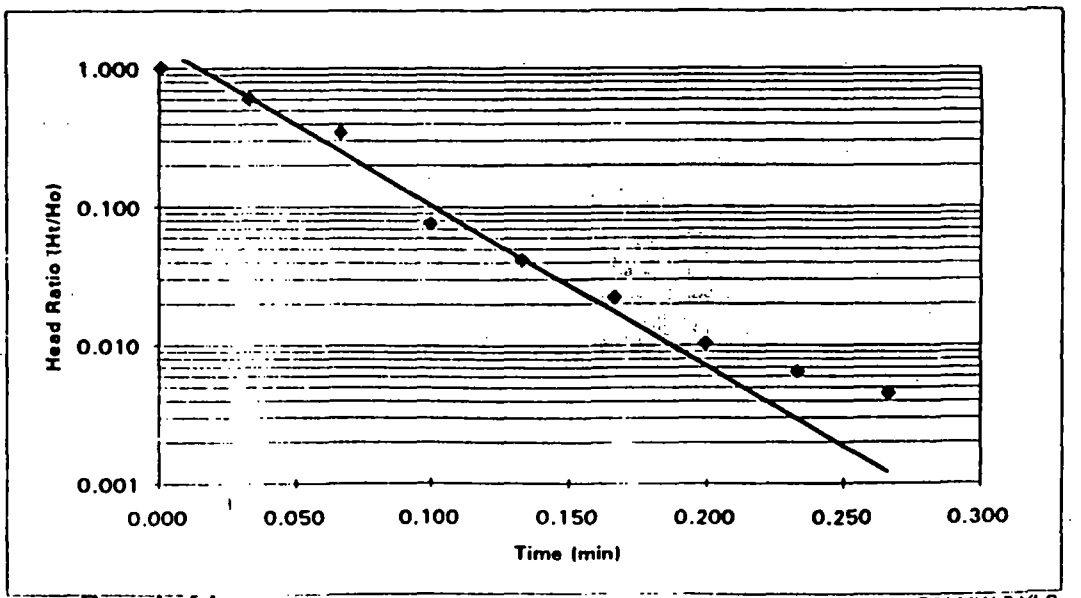
H1= 0.601 t1= 0.034

H2= 0.042 t2= 0.134

24 HOUR CLOCK (Hr-Min)	Sec	T1 (PSI)	ELAPSED TIME (Min)	DEPTH TO WATER (Feet)	HEAD (Feet)	HEAD RATIO (H/Ho)	Test Interval
		NA	0.001	1.50	2.570	1.000	0.000
		NA	0.033	2.53	1.545	0.601	0.601
		NA	0.066	3.18	0.889	0.346	0.346
		NA	0.100	3.88	0.194	0.076	0.076
		NA	0.133	3.96	0.107	0.042	0.042
		NA	0.166	4.01	0.058	0.022	0.000
		NA	0.200	4.04	0.027	0.010	0.000
		NA	0.233	4.05	0.017	0.006	0.000
		NA	0.266	4.06	0.012	0.005	0.000



B & R	K=	1.1E-02	cm/s	or	31.48	ft/d
Hvorslev	K=	1.3E-02	cm/s	or	37.04	ft/d



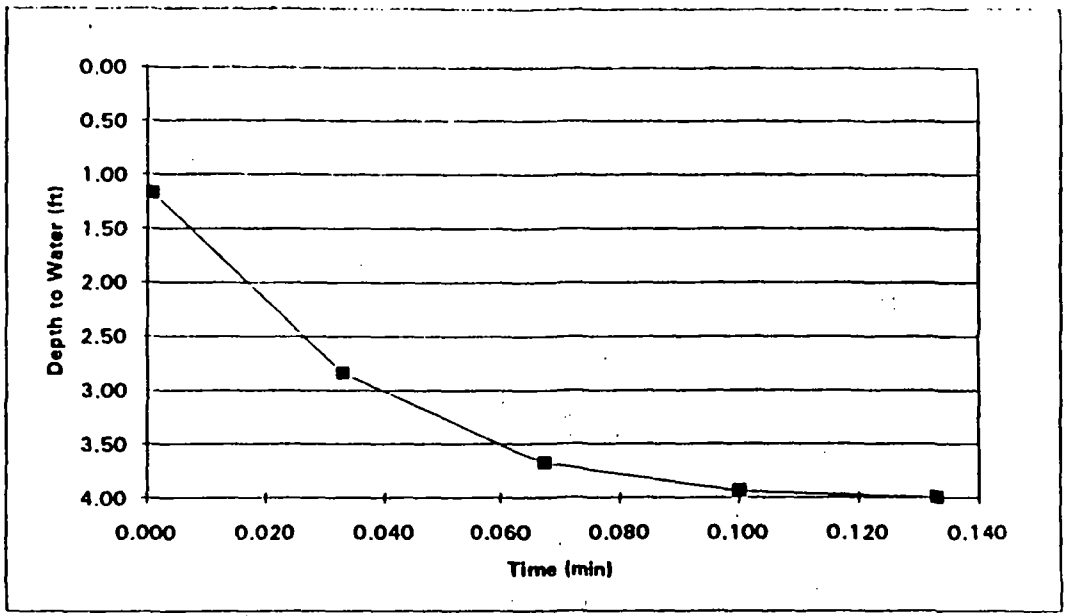
FALLING HEAD TEST MW-7

WELL ID NUMBER :	MW-7	
JOB NUMBER:	943-3627	
STATIC WATER DEPTH=	4.07	FT BELOW TOC
STATIC PRESSURE=	NA	PSI
STANDPIPE DIAMETER=	2.00	INCHES
SCREEN DIAMETER=	8.00	INCHES
TOP OF SCREEN=	12.50	FT BELOW TOC
BOTTOM OF SCREEN=	25.80	FT BELOW TOC
AQUIFER THICKNESS=	NA	NA or FEET

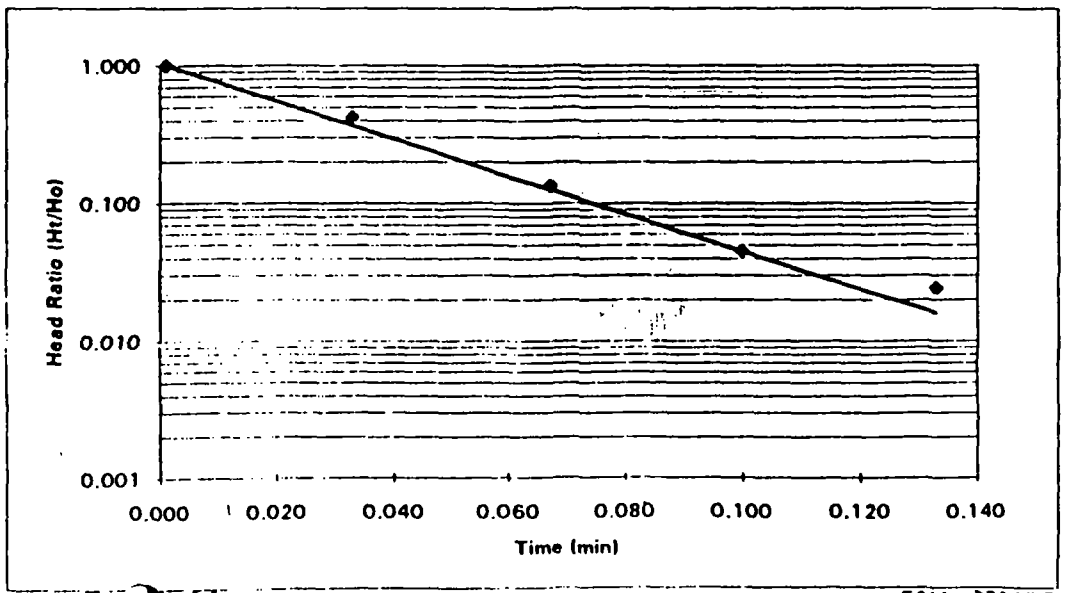
TO INDICATE BEST FIT LINE ENTER t1 AND t2

H1= 1.000 t1= 0.001
H2= 0.045 t2= 0.100

24 HOUR CLOCK (Hr-Min)	Sec	T1 (PSI)	ELAPSED TIME (Min)	DEPTH TO WATER (Feet)	HEAD (Feet)	HEAD RATIO (H/Ho)	Test Interval
		NA	0.001	1.17	2.900	1.000	1.000
		NA	0.033	2.84	1.230	0.424	0.424
		NA	0.067	3.68	0.390	0.134	0.134
		NA	0.100	3.94	0.130	0.045	0.045
		NA	0.133	4.00	0.070	0.024	0.000



B & R	K=	1.3E-02	cm/s	or	36.94	ft/d
Hvorslev	K=	1.5E-02	cm/s	or	43.46	ft/d



FALLING HEAD TEST MW-9

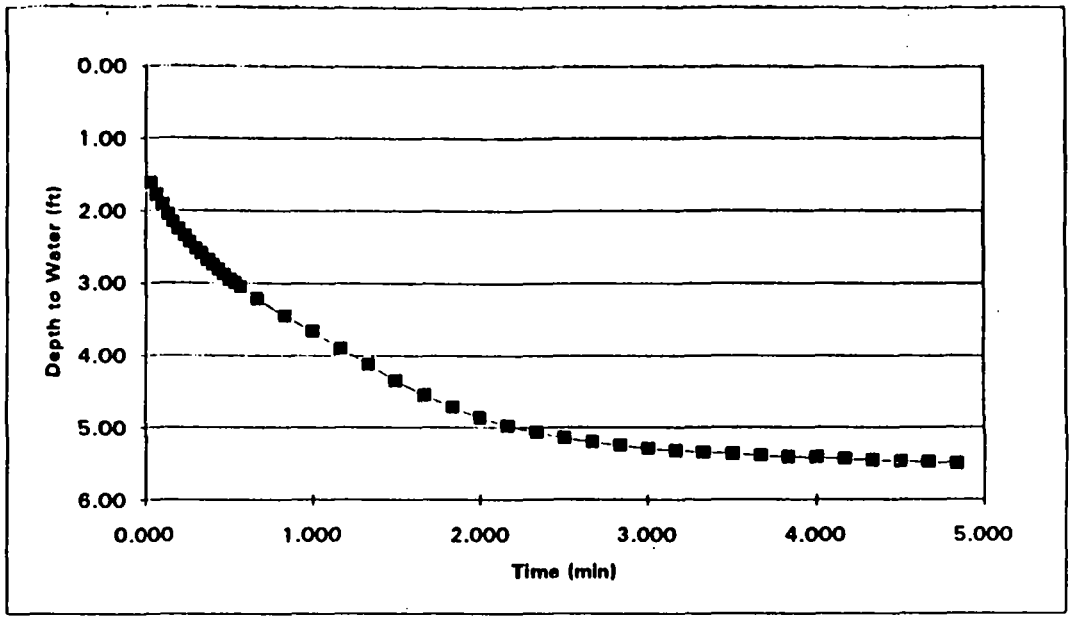
WELL ID NUMBER :	MW-9	
JOB NUMBER:	943-3627	
STATIC WATER DEPTH=	5.93	FT BELOW TOC
STATIC PRESSURE=	NA	PSI
STANDPIPE DIAMETER=	2.00	INCHES
SCREEN DIAMETER=	6.00	INCHES
TOP OF SCREEN=	16.60	FT BELOW TOC
BOTTOM OF SCREEN=	25.00	FT BELOW TOC
AQUIFER THICKNESS=	NA	NA or FEET

TO INDICATE BEST FIT LINE ENTER t1 AND t2

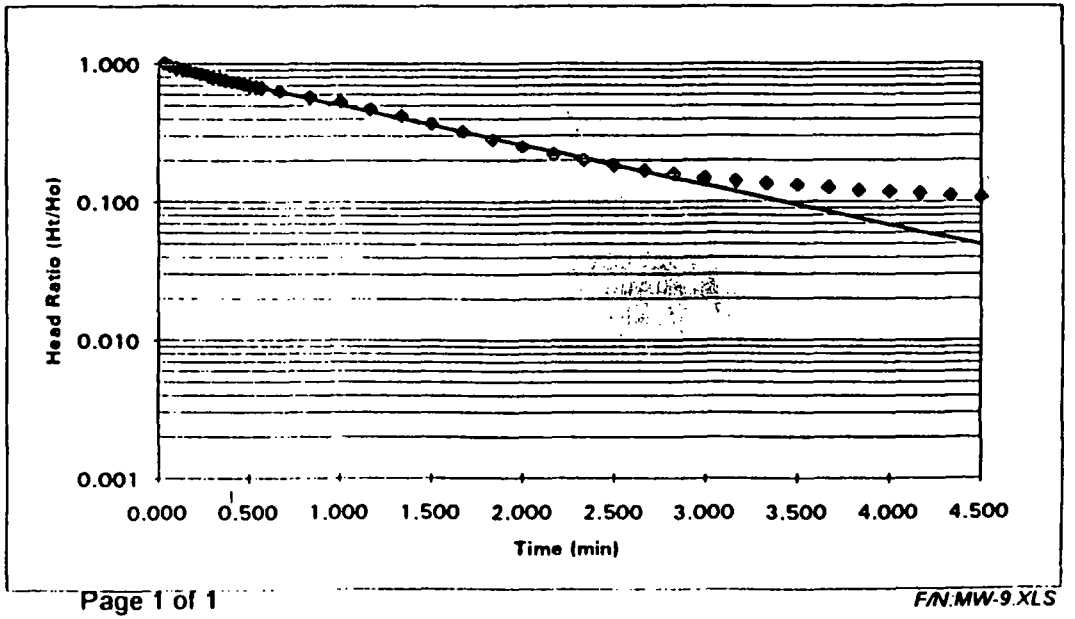
H1= 0.853 t1= 0.200

H2= 0.320 t2= 1.670

24 HOUR CLOCK (Hr-Min)	Sec	T1 (PSI)	ELAPSED TIME (Min)	DEPTH TO WATER (Feet)	HEAD (Feet)	HEAD RATIO (H/Ho)	Test Interval
		NA	0.033	1.63	4.302	1.000	0.000
		NA	0.066	1.80	4.133	0.961	0.000
		NA	0.100	1.93	4.000	0.930	0.000
		NA	0.133	2.05	3.878	0.901	0.000
		NA	0.166	2.16	3.768	0.876	0.000
		NA	0.200	2.26	3.668	0.853	0.853
		NA	0.233	2.35	3.579	0.832	0.832
		NA	0.266	2.44	3.487	0.811	0.811
		NA	0.300	2.53	3.402	0.791	0.791
		NA	0.333	2.60	3.327	0.773	0.773
		NA	0.366	2.68	3.253	0.756	0.756
		NA	0.400	2.75	3.182	0.740	0.740
		NA	0.433	2.81	3.118	0.725	0.725
		NA	0.466	2.88	3.046	0.708	0.708
		NA	0.500	2.95	2.985	0.694	0.694
		NA	0.533	3.00	2.929	0.681	0.681
		NA	0.566	3.06	2.871	0.667	0.667
		NA	0.666	3.22	2.709	0.630	0.630
		NA	0.833	3.46	2.475	0.575	0.575
		NA	1.000	3.67	2.257	0.525	0.525
		NA	1.166	3.91	2.024	0.471	0.471
		NA	1.333	4.13	1.800	0.418	0.418
		NA	1.500	4.35	1.579	0.367	0.367
		NA	1.666	4.55	1.379	0.320	0.320
		NA	1.833	4.72	1.206	0.280	0.000



B & R	K=	4.5E-04	cm/s	or	1.27	ft/d
Hvorslev	K=	4.9E-04	cm/s	or	1.39	ft/d



FALLING HEAD TEST MW-10

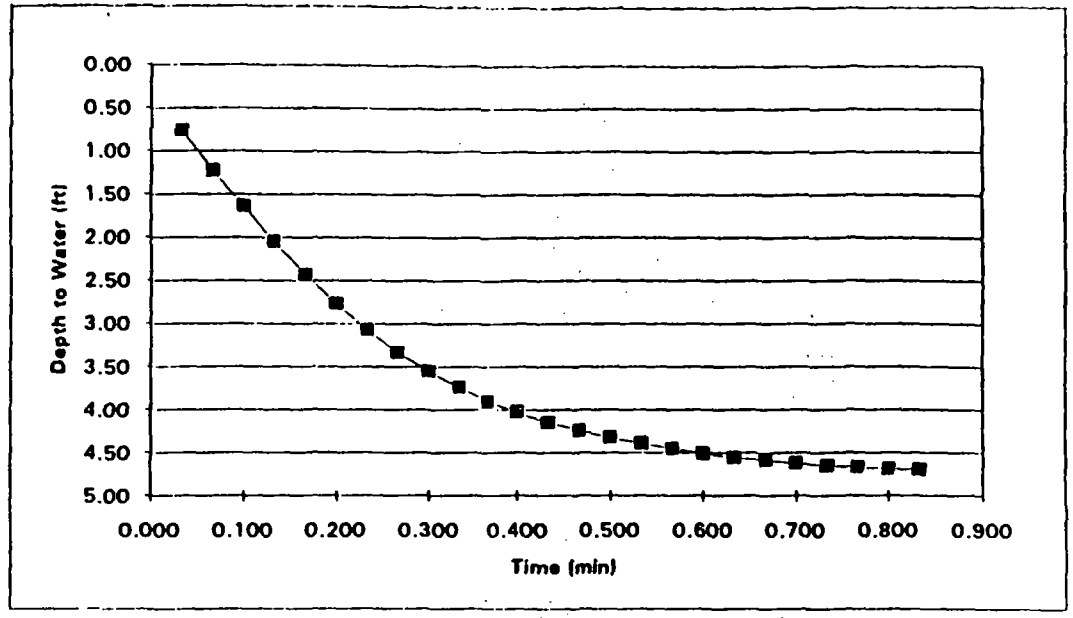
WELL ID NUMBER :	MW-10	
JOB NUMBER:	943-3627	
STATIC WATER DEPTH=	4.83	FT BELOW TOC
STATIC PRESSURE=	NA	PSI
STANDPIPE DIAMETER=	2.00	INCHES
SCREEN DIAMETER=	6.00	INCHES
TOP OF SCREEN=	12.20	FT BELOW TOC
BOTTOM OF SCREEN=	25.00	FT BELOW TOC
AQUIFER THICKNESS=	NA	NA or FEET

TO INDICATE BEST FIT LINE ENTER t1 AND t2

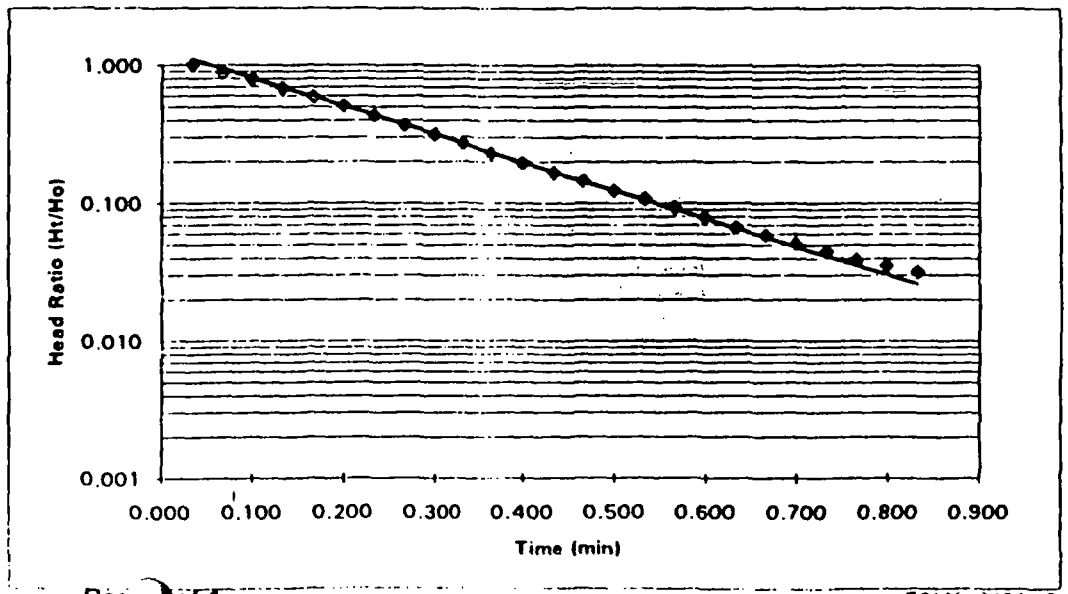
H1= 0.590 t1= 0.167

H2= 0.124 t2= 0.500

24 HOUR CLOCK (Hr-Min)	Min	T1 (PSI)	ELAPSED TIME (Min)	DEPTH TO WATER (Feet)	HEAD (Feet)	HEAD RATIO (H/Ho)	Test Interval
		NA	0.033	0.77	4.062	1.000	0.000
		NA	0.066	1.23	3.604	0.887	0.000
		NA	0.100	1.65	3.183	0.784	0.000
		NA	0.133	2.05	2.776	0.683	0.000
		NA	0.166	2.43	2.397	0.590	0.590
		NA	0.200	2.77	2.059	0.507	0.507
		NA	0.233	3.08	1.755	0.432	0.432
		NA	0.266	3.34	1.490	0.367	0.367
		NA	0.300	3.55	1.276	0.314	0.314
		NA	0.333	3.74	1.092	0.269	0.269
		NA	0.366	3.90	0.930	0.229	0.229
		NA	0.400	4.03	0.796	0.196	0.196
		NA	0.433	4.15	0.678	0.167	0.167
		NA	0.466	4.24	0.588	0.145	0.145
		NA	0.500	4.33	0.502	0.124	0.124
		NA	0.533	4.39	0.438	0.108	0.000
		NA	0.566	4.45	0.377	0.093	0.000
		NA	0.600	4.51	0.320	0.079	0.000
		NA	0.633	4.56	0.272	0.067	0.000
		NA	0.666	4.59	0.237	0.058	0.000
		NA	0.700	4.63	0.205	0.050	0.000
		NA	0.733	4.65	0.181	0.045	0.000
		NA	0.766	4.67	0.158	0.039	0.000
		NA	0.800	4.69	0.144	0.035	0.000
		NA	0.833	4.70	0.129	0.032	0.000



B & R	K=	2.1E-03	cm/s	or	6.06	ft/d
Hvorslev	K=	2.5E-03	cm/s	or	7.22	ft/d



FALLING HEAD TEST MW-11

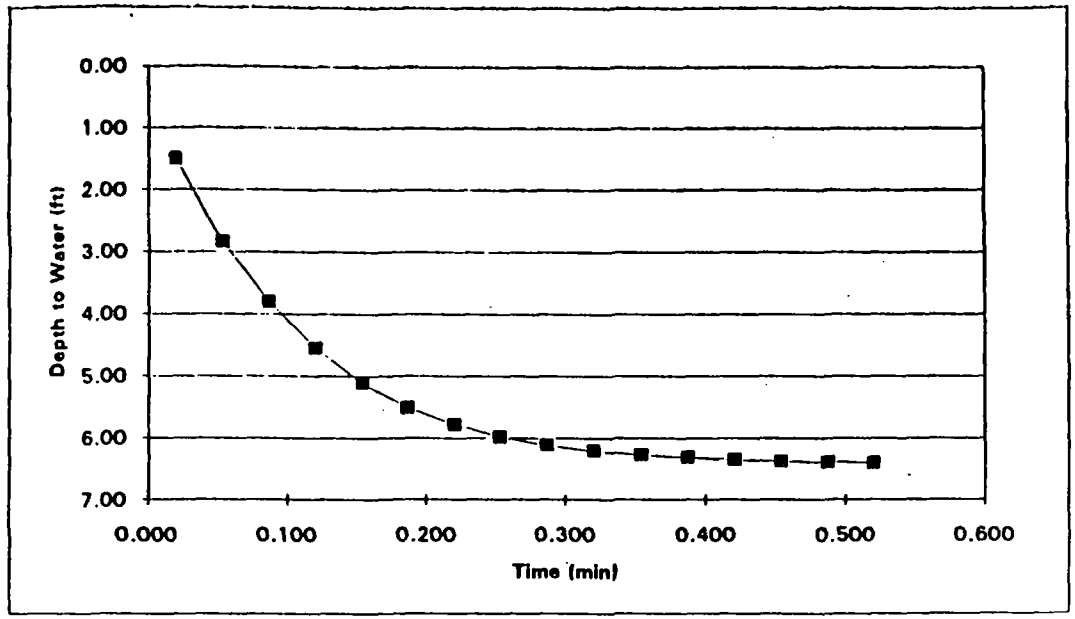
WELL ID NUMBER :	MW-11	
JOB NUMBER:	943-3627	
STATIC WATER DEPTH=	6.47	FT BELOW TOC
STATIC PRESSURE=	NA	PSI
STANDPIPE DIAMETER=	2.00	INCHES
SCREEN DIAMETER=	6.00	INCHES
TOP OF SCREEN=	12.50	FT BELOW TOC
BOTTOM OF SCREEN=	25.80	FT BELOW TOC
AQUIFER THICKNESS=	NA	NA or FEET

TO INDICATE BEST FIT LINE ENTER t1 AND t2

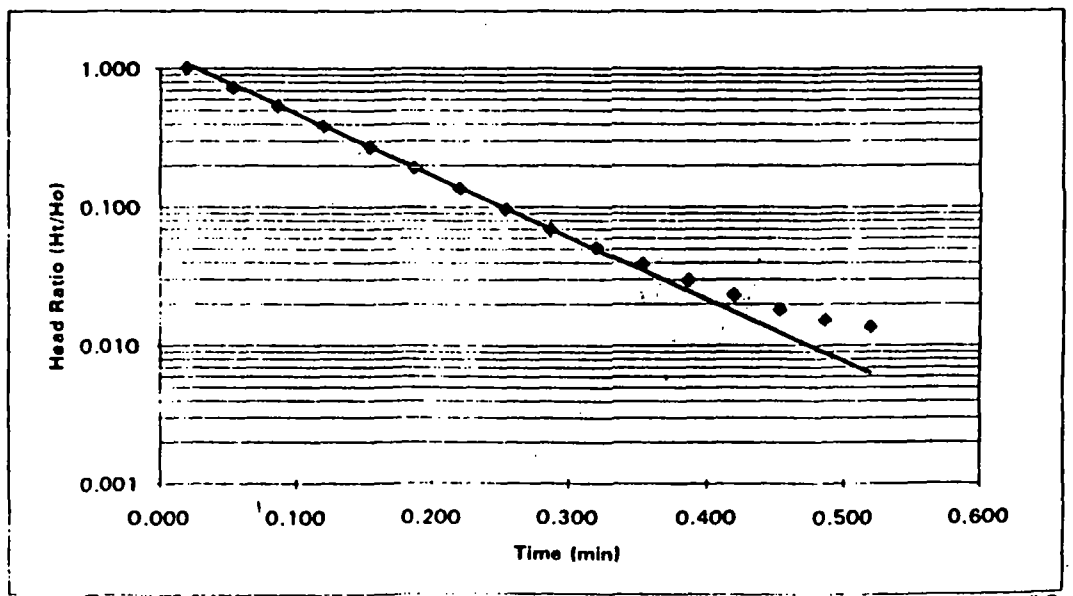
H1= 0.536 t1= 0.088

H2= 0.069 t2= 0.287

24 HOUR CLOCK (Hr-Min)	Sec	T1 (PSI)	ELAPSED TIME (Min)	DEPTH TO WATER (Feet)	HEAD (Feet)	HEAD RATIO (H/Ho)	Test Interval
		NA	0.020	1.50	4.970	1.000	0.000
		NA	0.053	2.85	3.622	0.729	0.000
		NA	0.087	3.81	2.663	0.536	0.536
		NA	0.120	4.56	1.910	0.384	0.384
		NA	0.153	5.12	1.354	0.272	0.272
		NA	0.187	5.51	0.955	0.192	0.192
		NA	0.220	5.79	0.680	0.137	0.137
		NA	0.253	5.99	0.483	0.097	0.097
		NA	0.287	6.13	0.344	0.069	0.069
		NA	0.320	6.21	0.256	0.052	0.000
		NA	0.353	6.28	0.192	0.039	0.000
		NA	0.387	6.32	0.149	0.030	0.000
		NA	0.420	6.35	0.115	0.023	0.000
		NA	0.453	6.38	0.091	0.018	0.000
		NA	0.487	6.39	0.076	0.015	0.000
		NA	0.520	6.40	0.067	0.014	0.000



B & R	K=	4.5E-03	cm/s	or	12.70	ft/d
Hvorslev	K=	5.4E-03	cm/s	or	15.37	ft/d



FALLING HEAD TEST MW-12

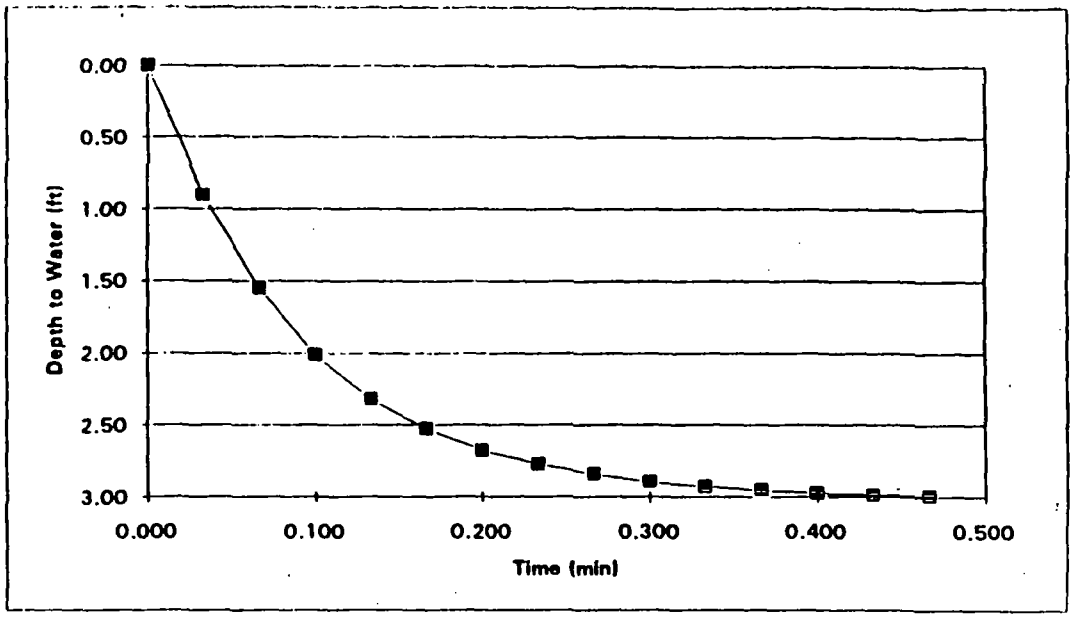
WELL ID NUMBER :	MW-12	
JOB NUMBER:	943-3627	
STATIC WATER DEPTH=	3.05	FT BELOW TOC
STATIC PRESSURE=	NA	PSI
STANDPIPE DIAMETER=	2.00	INCHES
SCREEN DIAMETER=	6.00	INCHES
TOP OF SCREEN=	12.40	FT BELOW TOC
BOTTOM OF SCREEN=	25.00	FT BELOW TOC
AQUIFER THICKNESS=	NA	NA or FEET

TO INDICATE BEST FIT LINE ENTER t1 AND t2

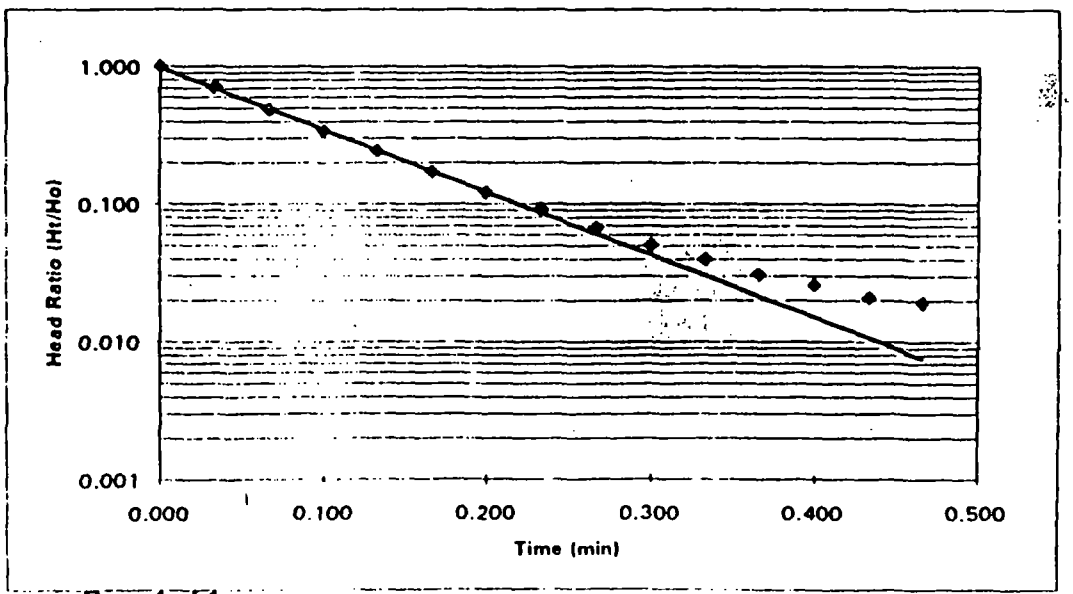
H1= 0.491 t1= 0.067

H2= 0.122 t2= 0.200

24 HOUR CLOCK (Hr-Min)	Sec	T1 (PSI)	ELAPSED TIME (Min)	DEPTH TO WATER (Feet)	HEAD (Feet)	HEAD RATIO (H/Ho)	Test Interval
		NA	0.000	0.00	3.049	1.000	0.000
		NA	0.033	0.91	2.144	0.703	0.000
		NA	0.067	1.55	1.496	0.491	0.491
		NA	0.100	2.01	1.035	0.340	0.340
		NA	0.133	2.32	0.731	0.240	0.240
		NA	0.167	2.53	0.523	0.172	0.172
		NA	0.200	2.68	0.373	0.122	0.122
		NA	0.233	2.77	0.277	0.091	0.000
		NA	0.267	2.84	0.206	0.067	0.000
		NA	0.300	2.90	0.155	0.051	0.000
		NA	0.333	2.93	0.120	0.039	0.000
		NA	0.367	2.96	0.093	0.031	0.000
		NA	0.400	2.97	0.079	0.026	0.000
		NA	0.433	2.99	0.064	0.021	0.000
		NA	0.467	2.99	0.059	0.019	0.000



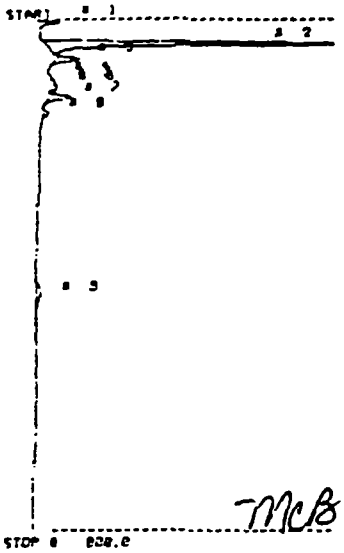
B & R	K=	4.9E-03	cm/s	or	13.91	ft/d
Hvorslev	K=	5.7E-03	cm/s	or	16.26	ft/d



APPENDIX D

FIELD GC CHROMATOGRAMS AND DATA

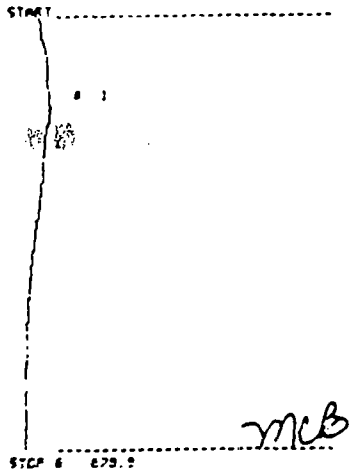
PHOTOVAC



STOP @ 800.0
SAMPLE LIBRARY 1 APR 11 1994 18:17
ANALYSIS # 1 AIR BLANK
INTERNAL TEMP 10
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	2	42.6	6.3	US
UNKNOWN	3	65.7	491.4	mUS
UNKNOWN	7	127.2	561.2	mUS
UNKNOWN	8	152.8	151.8	mUS
UNKNOWN	9	438.6	288.8	mUS

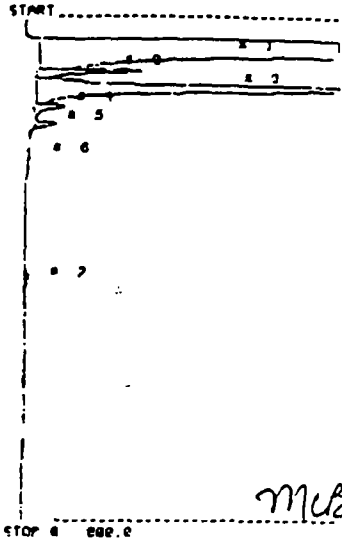
PHOTOVAC



STOP @ 879.9
SAMPLE LIBRARY 1 APR 11 1994 18:32
ANALYSIS # 2 AIR BLANK
INTERNAL TEMP 10
GAIN 10

COMPOUND NAME PEAK R.T. AREA/PPM

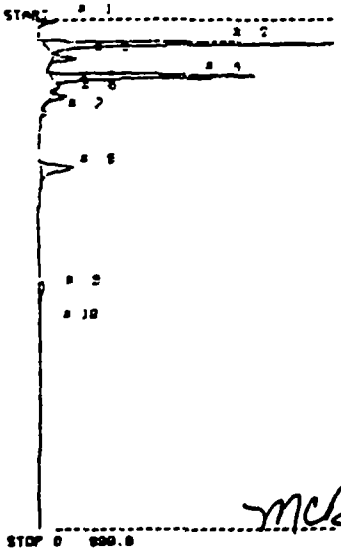
PHOTOVAC



STOP @ 800.0
SAMPLE LIBRARY 1 APR 11 1994 17:57
ANALYSIS # 6 CIS, TRANS-DCE
INTERNAL TEMP 10
GAIN 2 200 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	58.9	177.1	US
UNKNOWN	2	89.5	2.5	US
UNKNOWN	3	113.6	22.2	US
UNKNOWN	4	146.4	828.4	mUS
UNKNOWN	5	175.7	444.7	mUS
UNKNOWN	7	432.3	204.4	mUS

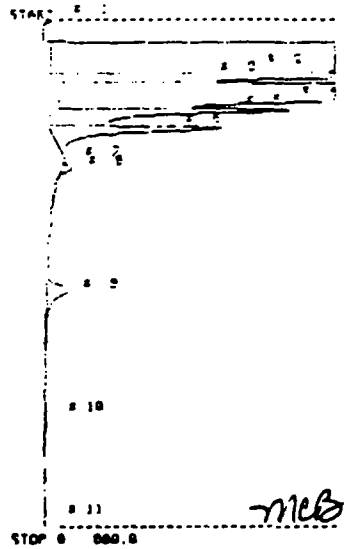
PHOTOVAC



STOP @ 800.0
SAMPLE LIBRARY 1 APR 11 1994 18:36
ANALYSIS # 2 AIR BLANK
INTERNAL TEMP 10
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	2	37.5	5.5	US
UNKNOWN	3	63.1	482.2	mUS
UNKNOWN	4	91.3	4.3	US
UNKNOWN	6	173.6	378.8	mUS
UNKNOWN	7	145.2	181.7	mUS
UNKNOWN	8	243.7	1.3	US
UNKNOWN	9	432.2	381.4	mUS

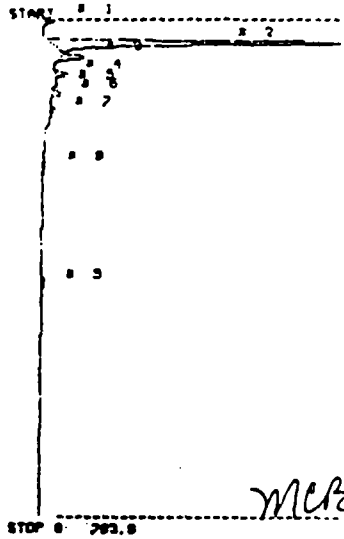
PHOTOVAC



STOP @ 800.0
SAMPLE LIBRARY 1 APR 11 1994 17:14
ANALYSIS # 4 CIS, TRANS-DCE
INTERNAL TEMP 10
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	2	68.6	496.5	US
UNKNOWN	3	85.8	12.8	US
UNKNOWN	4	117.7	187.7	US
UNKNOWN	5	147.2	18.1	US
UNKNOWN	6	176.2	6.8	US
UNKNOWN	8	233.5	121.5	mUS
UNKNOWN	9	433.3	1.8	US

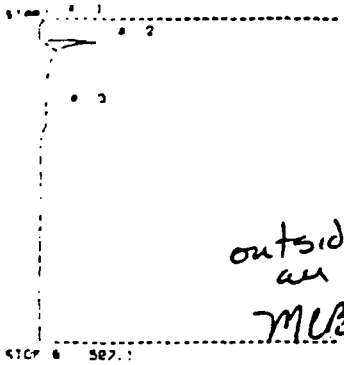
PHOTOVAC



STOP @ 783.8
SAMPLE LIBRARY 1 APR 11 1994 17:57
ANALYSIS # 6 ~~CIS, TRANS-DCE~~ air blank
INTERNAL TEMP 10
GAIN 10 ~~200 UL INJ~~ 500 ul

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	2	37.5	8.7	US
UNKNOWN	3	61.1	557.6	mUS
UNKNOWN	4	85.2	258.8	mUS
UNKNOWN	6	139.8	217.8	mUS
UNKNOWN	9	423.4	141.8	mUS

PHOTOVAC



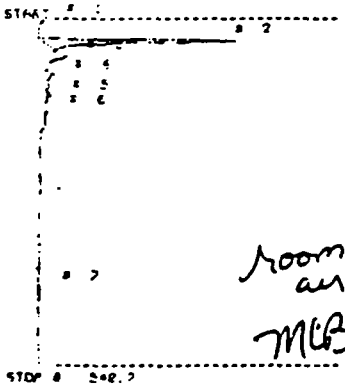
outside air

MCB

STOP @ 507.1
SAMPLE LIBRARY : APR 11 1994 12:42
ANALYSIS # 2 AIR BLANK
INTERNAL TEMP 70
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	38.1	1.2 US

PHOTOVAC



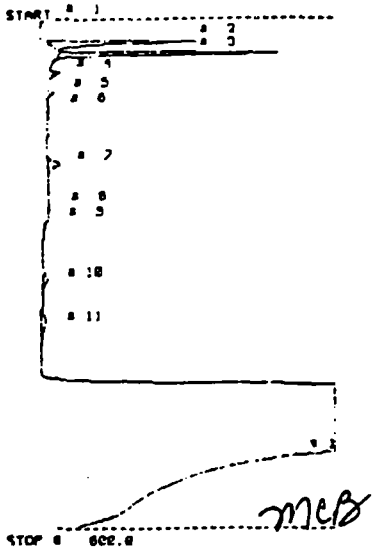
room air

MCB

STOP @ 540.7
SAMPLE LIBRARY : APR 11 1994 12:52
ANALYSIS # 3 AIR BLANK
INTERNAL TEMP 70
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	37.3	3.1 US
UNKNOWN	3	61.7	273.3 pUS
UNKNOWN	5	128.4	188.5 pUS

PHOTOVAC

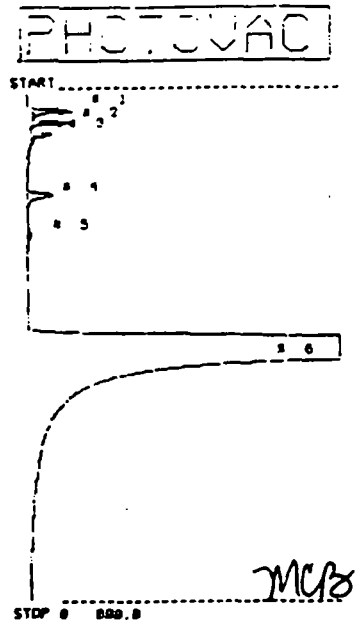


MCB

STOP @ 602.0
SAMPLE LIBRARY : APR 11 1994 [illegible]
ANALYSIS # 3 PCE
INTERNAL TEMP 70
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	37.4	2.5 US
UNKNOWN	3	57.8	2.8 US
UNKNOWN	4	69.2	125.5 pUS
UNKNOWN	7	226.4	488.4 pUS
UNKNOWN	10	415.0	560.4 pUS
UNKNOWN	11	488.8	570.8 pUS

PHOTOVAC

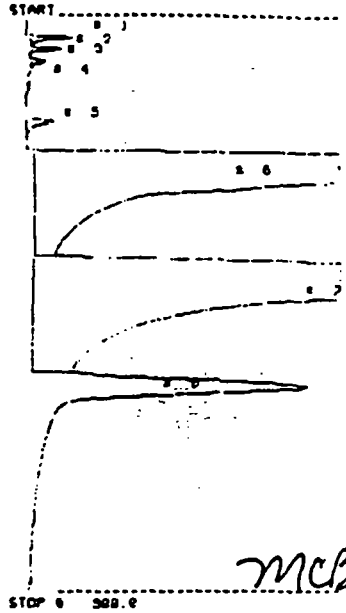


MCB

STOP @ 880.8
SAMPLE LIBRARY : APR 11 1994 18:50
ANALYSIS # 10 PCE, TOLUENE
INTERNAL TEMP 70
GAIN 2 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	37.3	666.6 pUS
UNKNOWN	2	57.1	578.2 pUS
UNKNOWN	3	75.7	388.6 pUS
UNKNOWN	4	173.2	675.8 pUS
UNKNOWN	5	234.8	112.7 pUS

PHOTOVAC

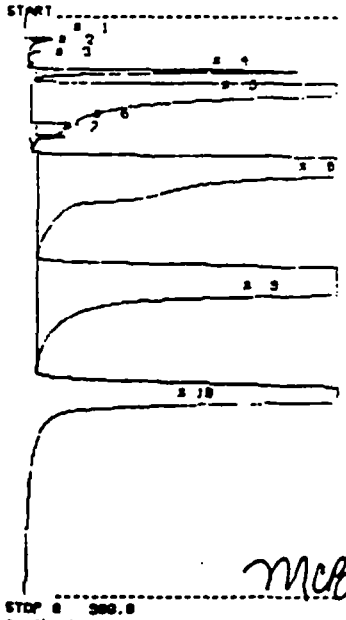


MCB

STOP @ 588.0
SAMPLE LIBRARY : APR 11 1994 [illegible]
ANALYSIS # 11 PCE, TOL, TCE
INTERNAL TEMP 70
GAIN 2 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	37.3	628.5 pUS
UNKNOWN	2	57.1	451.7 pUS
UNKNOWN	3	75.7	244.5 pUS
UNKNOWN	5	172.7	785.1 pUS
UNKNOWN	6	243.8	632.3 US
UNKNOWN	7	422.5	818.7 US

PHOTOVAC



MCB

STOP @ 588.8
SAMPLE LIBRARY : APR 11 1994 19:18
ANALYSIS # 12 PCE, TCL, TCE
INTERNAL TEMP 70 CIS-DCE
GAIN 2 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	36.9	135.2 pUS
UNKNOWN	4	87.4	5.1 US
UNKNOWN	5	115.4	131.4 US
UNKNOWN	6	170.7	2.3 US
UNKNOWN	7	191.2	649.2 pUS
UNKNOWN	8	237.2	317.8 US
UNKNOWN	9	416.2	464.7 US

TABLE D-1
FIELD GC RESULTS
BROCKWAY STANDARD
HOMERVILLE, GEORGIA

	T-DCE (ppb)	C-DCE (ppb)	TCE (ppb)	TOLUENE (ppb)	PCE (ppb)	LAB?
DETECTION LIMIT	5	5	5	5	5	
LOCATION						
SOIL GAS						
SG-1	ND	ND	ND	14	ND	
SG-2	ND	ND	ND	211	ND	
SG-3	ND	ND	ND	138	ND	
SG-4	ND	ND	ND	141	ND	
SG-5	ND	ND	ND	98	ND	
SG-6	2231	6830	1849	779	647	
SOIL						
SG-1-6	ND	ND	ND	ND	ND	
SG-2-7	ND	ND	ND	12	ND	
SG-3-4	ND	ND	ND	ND	ND	
SG-4-5	ND	ND	ND	ND	ND	
SG-5-4	ND	ND	ND	ND	ND	X
SG-6-10	ND	90	8.3	ND	28	
SG-6-4	ND	6.1	ND	ND	13	X
GROUNDWATER						
SG-1-9	ND	23	6.3	ND	ND	
SG-2-7	ND	ND	ND	21	ND	
SG-3-7	ND	ND	BDL	263	ND	
SG-4-5	ND	ND	ND	ND	ND	X
SG-5-4	ND	ND	ND	ND	ND	X
SG-6-10	ND	131	44	5.2	242	X
SG-6-6A	ND	2100	42	42	120	
SG-6-6B	38	1905	36	45	76	
SURFACE WATER						
DD-1	46	ND	ND	ND	ND	X

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: Lake 2
ACL Sample No.: 82695
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: ----
Date Analyzed: 04-21-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
5-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	4J	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
8-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

BDL = Below Detection Limit

2a.

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-12
ACL Sample No.: 82694
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: ----
Date Analyzed: 04-27-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

BDL = Below Detection Limit

2a

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: DD-1
ACL Sample No.: 82693
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: ----
Date Analyzed: 04-21-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
[illegible]-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
[illegible]-34-5	1,1,2,2-Tetrachloroethane	BDL	5
[illegible]8-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

BDL = Below Detection Limit

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: HP-18
ACL Sample No.: 82692
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-18-94
Date Extracted: ----
Date Analyzed: 04-27-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	50
74-83-9	Bromomethane	BDL	50
75-01-4	Vinyl Chloride	724	50
75-00-3	Chloroethane	BDL	50
75-09-2	Methylene Chloride	BDL	25
67-64-1	Acetone	BDL	500
75-15-0	Carbon Disulfide	BDL	25
75-35-4	1,1-Dichloroethene	140	25
75-34-3	1,1-Dichloroethane	120	25
156-60-5	trans-1,2-Dichloroethene	12J	25
67-66-3	Chloroform	BDL	25
107-06-2	1,2-Dichloroethane	BDL	25
78-93-3	2-Butanone	BDL	500
71-55-6	1,1,1-Trichloroethane	BDL	25
56-23-5	Carbon Tetrachloride	BDL	25
108-05-4	Vinyl Acetate	BDL	250
75-27-4	Bromodichloromethane	BDL	25
78-87-5	1,2-Dichloropropane	BDL	25
10061-01-5	cis-1,3-Dichloropropene	BDL	25
79-01-6	Trichloroethene	2940	25
124-48-1	Dibromochloromethane	BDL	25
79-00-5	1,1,2-Trichloroethane	BDL	25
71-43-2	Benzene	BDL	25
10061-02-6	trans-1,3-Dichloropropene	BDL	25
75-25-2	Bromoform	BDL	25
108-10-1	4-Methyl-2-Pentanone	BDL	250
591-78-6	2-Hexanone	BDL	250
127-18-4	Tetrachloroethene	BDL	25
79-34-5	1,1,2,2-Tetrachloroethane	BDL	25
108-88-3	Toluene	BDL	25
108-90-7	Chlorobenzene	BDL	25
100-41-4	Ethylbenzene	BDL	25
100-42-5	Styrene	BDL	25
1330-20-7	Xylenes (total)	BDL	25
156-59-2	cis-1,2-Dichloroethene	4320	25

BDL = Below Detection Limit

2a.

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: HP-17
ACL Sample No.: 82691
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-18-94
Date Extracted: ----
Date Analyzed: 04-27-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
[illegible]-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	54	5
75-34-3	1,1-Dichloroethane	25	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	7	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
[illegible]34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

2a.

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: HP-20
ACL Sample No.: 82690
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-18-94
Date Extracted: ----
Date Analyzed: 04-26-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	500
74-83-9	Bromomethane	BDL	500
75-01-4	Vinyl Chloride	BDL	500
75-00-3	Chloroethane	BDL	500
75-09-2	Methylene Chloride	BDL	250
67-64-1	Acetone	BDL	5000
75-15-0	Carbon Disulfide	BDL	250
75-35-4	1,1-Dichloroethene	BDL	250
75-34-3	1,1-Dichloroethane	BDL	250
156-60-5	trans-1,2-Dichloroethene	BDL	250
67-66-3	Chloroform	BDL	250
107-06-2	1,2-Dichloroethane	BDL	250
78-93-3	2-Butanone	1580J	5000
71-55-6	1,1,1-Trichloroethane	BDL	250
56-23-5	Carbon Tetrachloride	BDL	250
108-05-4	Vinyl Acetate	BDL	2500
75-27-4	Bromodichloromethane	BDL	250
78-87-5	1,2-Dichloropropane	BDL	250
10061-01-5	cis-1,3-Dichloropropene	BDL	250
79-01-6	Trichloroethene	BDL	250
124-48-1	Dibromochloromethane	BDL	250
79-00-5	1,1,2-Trichloroethane	BDL	250
71-43-2	Benzene	BDL	250
10061-02-6	trans-1,3-Dichloropropene	BDL	250
75-25-2	Bromoform	BDL	250
108-10-1	4-Methyl-2-Pentanone	BDL	2500
591-78-6	2-Hexanone	BDL	2500
127-18-4	Tetrachloroethene	BDL	250
79-34-5	1,1,2,2-Tetrachloroethane	BDL	250
108-88-3	Toluene	BDL	250
108-90-7	Chlorobenzene	BDL	250
100-41-4	Ethylbenzene	BDL	250
100-42-5	Styrene	BDL	250
1330-20-7	Xylenes (total)	802	250
156-59-2	cis-1,2-Dichloroethene	BDL	250

BDL = Below Detection Limit

2a.

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: HP-9
ACL Sample No.: 82689
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-18-94
Date Extracted: ----
Date Analyzed: 04-26-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	131	10
75-00-3	Chloroethane	63	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	201	5
75-34-3	1,1-Dichloroethane	61	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	8	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	21	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	2J	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	94	5

2a.

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: HP-1
ACL Sample No.: 82688
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-18-94
Date Extracted: ----
Date Analyzed: 04-25-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

7a.

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356

TELEPHONE: [illegible]

VOLATILE ORGANICS - SW-846, METHOD 8240

REC'D: MCB | PN 943-3627 | FH 430 | CC | ROUTE | MAY 18 1994

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

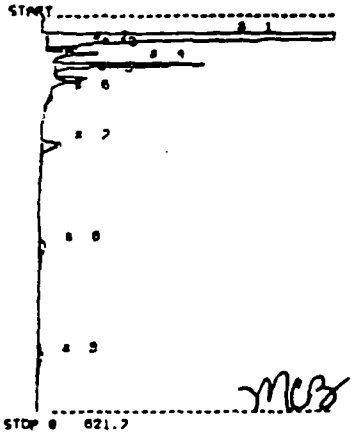
Station No.: HP-12
ACL Sample No.: 82687
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-18-94
Date Extracted: ----
Date Analyzed: 04-25-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	4J	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	37	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	20	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	99	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

John Andros 2a.
JOHN H. ANDROS

BDL – Below Detection Limit

PHOTOVAC



MCB

SAMPLE LIBRARY 2 APR 22 1994 13:49
ANALYSIS # 18 LOW STD
INTERNAL TEMP 22 SOIL
GAIN 18 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	34.7	0.000 PPB
UNKNOWN	2	54.1	291.0 mVS
UNKNOWN	3	63.3	372.2 mVS
T-DCE	4	82.8	6.728 PPB
C-DCE	5	184.2	4.182 PPB
TCE	7	212.4	4.211 PPB
UNKNOWN	8	321.2	232.9 mVS
UNKNOWN	9	543.9	285.2 mVS

PHOTOVAC

CALIBRATED PEAK 7,TCE

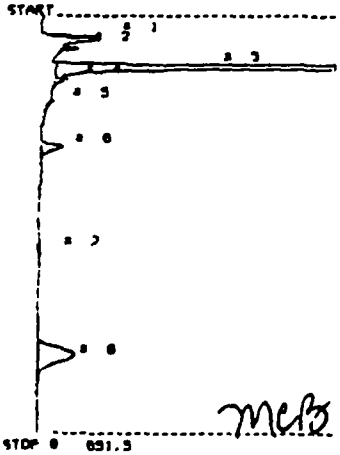
SAMPLE LIBRARY 2 APR 22 1994 13:49
ANALYSIS # 18 LOW STD
INTERNAL TEMP 21 SOIL
GAIN 18 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	34.7	0.000 PPB
UNKNOWN	2	54.1	291.0 mVS
UNKNOWN	3	63.3	372.2 mVS
T-DCE	4	82.8	6.728 PPB
C-DCE	5	184.2	4.182 PPB
TCE	7	212.4	4.211 PPB
TOLUENE	8	321.2	2.187 PPB
PCE	9	543.9	2.200 PPB

PHOTOVAC

2 COMPOUND	ID #	R.T.	LIMIT
INJ	1	35.3	1000. PPB
T-DCE	2	78.5	1000. PPB
C-DCE	3	183.4	1000. PPB
TCE	4	217.4	1000. PPB
TOLUENE	5	325.3	1000. PPB
PCE	6	557.2	1000. PPB

PHOTOVAC



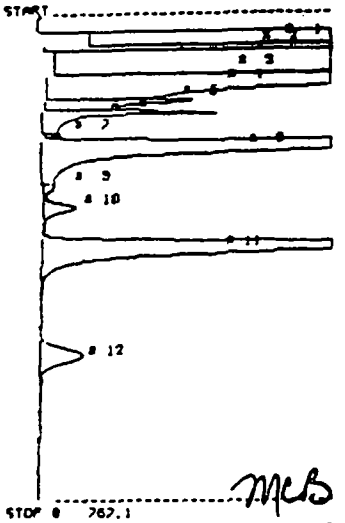
MCB

SAMPLE LIBRARY 2 APR 22 1994 16:12
ANALYSIS # 13 VSS-1
INTERNAL TEMP 22 REANALYSIS
GAIN 18 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	37.1	204.5 mVS
UNKNOWN	2	54.3	157.3 mVS
T-DCE	3	81.8	48.65 PPB
C-DCE	4	183.5	3.811 PPB
TCE	6	212.4	4.488 PPB
PCE	8	543.9	22.87 PPB

Use previous analysis

PHOTOVAC



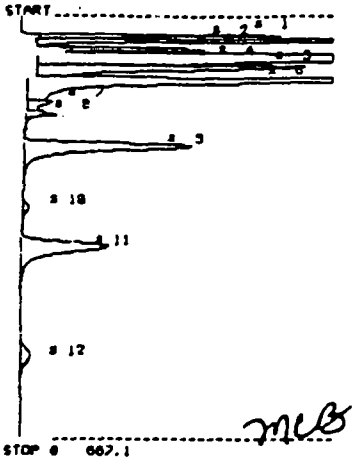
MCB

STOP # 767.1
SAMPLE LIBRARY 1 APR 22 1994 14:52
ANALYSIS # 15 RU-3A
INTERNAL TEMP 21 RW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPT	
UNKNOWN	1	25.6	101.3	US
UNKNOWN	2	34.9	8.7	US
T-DCE	3	78.3	83.81	PPB OS
C-DCE	4	128.1	266.8	PPB OS
UNKNOWN	5	142.8	5.3	US
UNKNOWN	6	162.2	6.2	US
UNKNOWN	7	155.2	347.1	uVS
TCE	8	213.8	287.3	PPB OS
UNKNOWN	9	226.8	668.5	uVS
UNKNOWN	10	312.3	1.8	US
TOLUENE	11	372.4	721.9	PPB OS
PCE	12	549.5	15.62	PPB

OS - offscale - use reanalysis results

PHOTOVAC

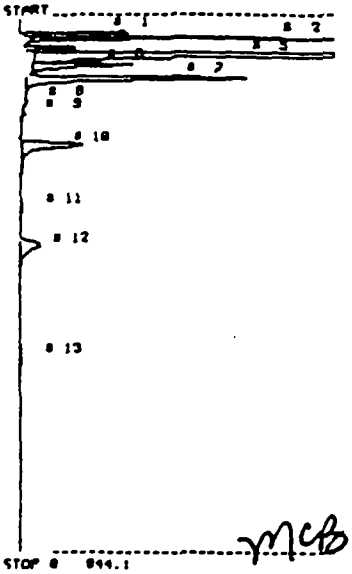


MCB

STOP # 667.1
SAMPLE LIBRARY 1 APR 22 1994 15:5
ANALYSIS # 16 RU-3A
INTERNAL TEMP 22 REANALYSIS
GAIN 2 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPT	
UNKNOWN	1	31.9	5.3	US
UNKNOWN	2	33.6	10.8	US
UNKNOWN	3	55.3	3.2	US
UNKNOWN	4	66.5	47.8	US
T-DCE	5	82.6	104.8	PPB ←
C-DCE	6	194.1	555.8	PPB OS
UNKNOWN	7	142.8	517.5	uVS
UNKNOWN	8	162.2	804.5	uVS
TCE	9	213.8	117.1	PPB ←
UNKNOWN	10	311.5	264.1	uVS
TOLUENE	11	374.2	58.48	PPB ←
PCE	12	548.1	15.11	PPB

PHOTOVAC



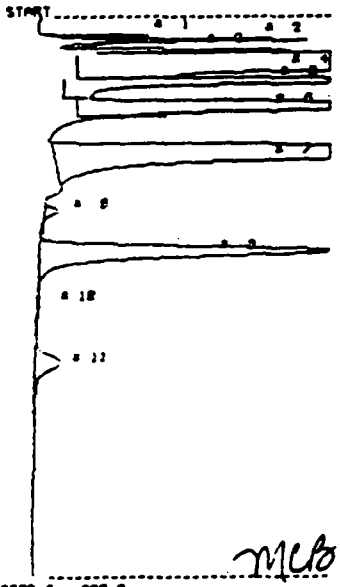
MCB

STOP # 844.1
SAMPLE LIBRARY 1 APR 22 1994 15:22
ANALYSIS # 17 RU-3A
INTERNAL TEMP 22 REANALYSIS
GAIN 2 50 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPT	
UNKNOWN	1	31.6	720.2	uVS
UNKNOWN	2	38.9	2.7	US
UNKNOWN	3	53.9	282.2	uVS
UNKNOWN	4	56.3	357.5	uVS
UNKNOWN	5	64.5	18.8	US
T-DCE	6	82.3	23.48	PPB
C-DCE	7	184.2	186.4	PPB ←
TCE	10	213.8	38.83	PPB
TOLUENE	12	373.7	16.36	PPB
PCE	13	545.3	2.673	PPB

x 5

PHOTOVAC

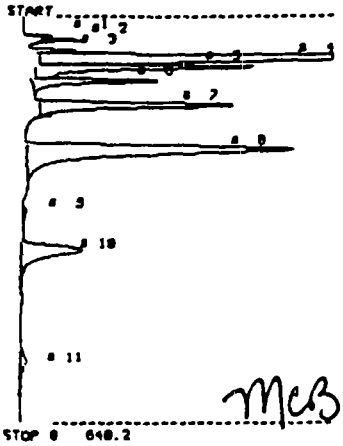


STOP @ 663.8
SAMPLE LIBRARY 1 APR 22 1994 13:54
ANALYSIS # 11 MW-11
INTERNAL TEMP 21 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM		
UNKNOWN	1	21.9	832.7	uVS	
UNKNOWN	2	39.5	1.9	VS	
UNKNOWN	3	56.7	3.3	VS	
UNKNOWN	4	75.3	48.6	VS	
C-DCE	5	185.2	153.0	PPB	OS
UNKNOWN	6	144.7	42.8	VS	
TCE	7	218.4	373.3	PPB	OS
UNKNOWN	8	317.1	595.0	uVS	
TOLUENE	9	379.7	67.87	PPB	OS
PCE	11	557.5	8.501	PPB	

OS - offscale use reanalysis results

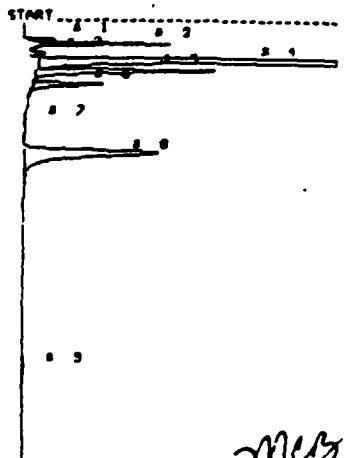
PHOTOVAC



STOP @ 648.2
SAMPLE LIBRARY 1 APR 22 1994 14:7
ANALYSIS # 12 MW-11
INTERNAL TEMP 21 REANALYSIS
GAIN 2 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	2	39.5	384.9	uVS
UNKNOWN	3	56.5	670.3	uVS
UNKNOWN	4	66.2	48.9	VS
T-DCE	5	83.2	87.45	PPB ←
C-DCE	6	185.4	128.3	PPB ←
UNKNOWN	7	144.8	6.0	VS
TCE	8	217.2	218.5	PPB ←
UNKNOWN	9	315.5	116.1	uVS
TOLUENE	10	379.2	59.58	PPB ←
PCE	11	556.5	9.114	PPB

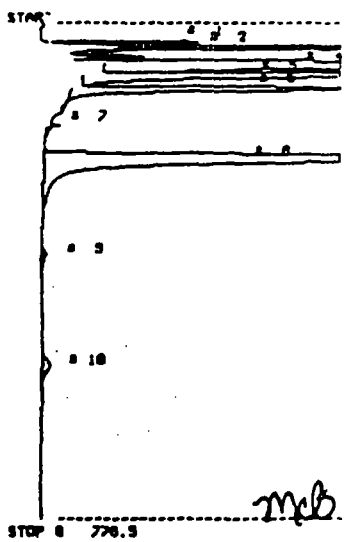
PHOTOVAC



STOP @ 691.7
SAMPLE LIBRARY 1 APR 22 1994 14:22
ANALYSIS # 13 MW-8
INTERNAL TEMP 21 GW
GAIN 2 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	32.8	146.5	uVS
UNKNOWN	2	39.7	1.3	VS
UNKNOWN	3	55.3	167.5	uVS
UNKNOWN	4	64.8	17.4	VS
T-DCE	5	83.2	35.35	PPB ←
C-DCE	6	185.4	53.87	PPB ←
TCE	8	215.4	88.72	PPB ←

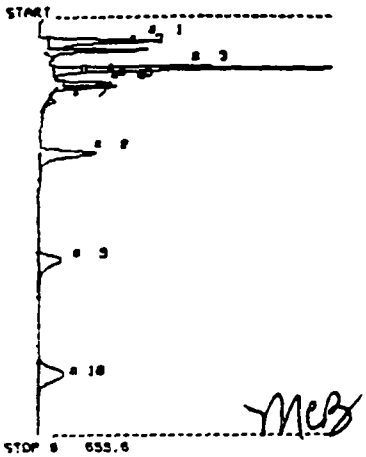
PHOTOVAC



STOP @ 776.5
SAMPLE LIBRARY 1 APR 22 1994 14:36
ANALYSIS # 14 MW-8
INTERNAL TEMP 21 REANALYSIS
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	31.9	352.5	uVS
UNKNOWN	2	39.5	6.8	VS
UNKNOWN	3	55.1	1.8	VS
UNKNOWN	4	66.6	31.7	VS
T-DCE	5	82.8	35.84	PPB OS
C-DCE	6	184.8	77.32	PPB OS
TCE	8	213.3	163.6	PPB OS
TOLUENE	9	377.2	8.674	PPB ←
PCE	10	550.5	2.588	PPB ←

PHOTOVAC

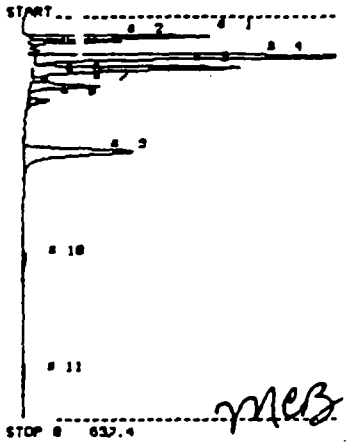


MCB

STOP @ 655.6
SAMPLE LIBRARY 1 APR 22 1994 11:30
ANALYSIS # 7 LOW STD
INTERNAL TEMP 21 GU
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	48.5	2.5 US
UNKNOWN	2	55.5	1.4 US
T-DCE	3	85.3	10.11 PPB
C-DCE	5	106.7	7.826 PPB
C-DCE	6	114.4	8.511 PPB
UNKNOWN	7	130.0	125.0 mVS
UNKNOWN	8	223.0	2.1 US
UNKNOWN	9	334.2	1.4 US
UNKNOWN	10	370.0	1.9 US

PHOTOVAC

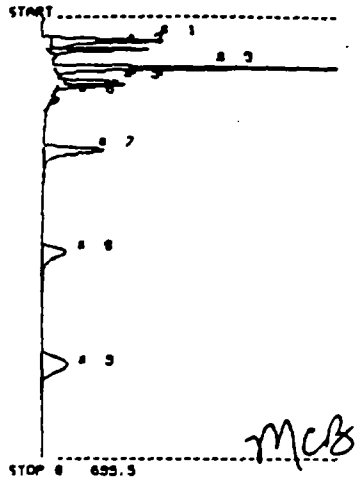


MCB

STOP @ 637.4
SAMPLE LIBRARY 1 APR 22 1994 11:44
ANALYSIS # 8 MW-5
INTERNAL TEMP 21 REANALYSIS
GAIN 2 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.5	3.0 US
UNKNOWN	2	39.7	1.1 US
UNKNOWN	4	65.5	13.1 US
T-DCE	5	85.0	53.28 PPB ←
UNKNOWN	6	101.2	282.5 mVS
UNKNOWN	7	114.1	1.6 US
UNKNOWN	8	130.0	444.1 mVS
TCE	9	222.6	65.23 PPB ←
TOLUENE	10	351.2	2.462 PPB ←

PHOTOVAC



MCB

STOP @ 655.5
SAMPLE LIBRARY 1 APR 22 1994 13:37
ANALYSIS # 10 LOW STD
INTERNAL TEMP 21 GU
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	48.5	2.0 US
UNKNOWN	2	54.5	1.4 US
T-DCE	3	83.3	11.83 PPB
C-DCE	4	106.3	8.133 PPB
C-DCE	5	111.7	10.45 PPB
UNKNOWN	6	133.6	162.0 mVS
TCE	7	217.8	6.682 PPB
TOLUENE	8	302.2	4.788 PPB
PCE	9	359.3	8.640 PPB

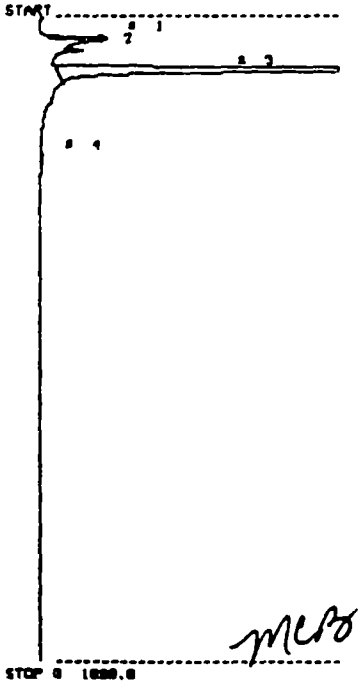
PHOTOVAC

CALIBRATED PEAK 8,TCE

SAMPLE LIBRARY 1 APR 22 1994 11:31
ANALYSIS # 7 LOW STD
INTERNAL TEMP 20 GU
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	48.9	2.5 US
UNKNOWN	2	55.5	1.4 US
T-DCE	3	85.3	10.11 PPB
C-DCE	5	106.7	7.826 PPB
UNKNOWN	6	114.4	1.8 US
UNKNOWN	7	130.0	125.0 mVS
TCE	8	223.0	6.555 PPB
TOLUENE	9	334.2	4.033 PPB
PCE	10	370.0	8.320 PPB

PHOTOVAC



MCB

STOP @ 1000.0
SAMPLE LIBRARY 1 APR 22 1994 12:12
ANALYSIS # 3 DD-1
INTERNAL TEMP 21 GU
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	36.6	189.0 mVS
UNKNOWN	2	53.3	130.0 mVS
T-DCE	3	84.6	46.13 PPB

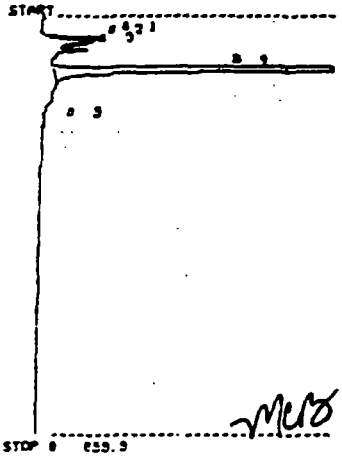
PHOTOVAC

CALIBRATED PEAK 7,TCE

SAMPLE LIBRARY 1 APR 22 1994 13:37
ANALYSIS # 10 LOW STD
INTERNAL TEMP 21 GU
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	48.5	2.0 US
UNKNOWN	2	54.5	1.4 US
T-DCE	3	83.3	11.83 PPB
C-DCE	4	106.3	8.133 PPB
UNKNOWN	5	111.7	1.1 US
UNKNOWN	6	133.6	162.0 mVS
TCE	7	217.8	6.682 PPB
TOLUENE	8	302.2	4.788 PPB
PCE	9	359.3	8.640 PPB

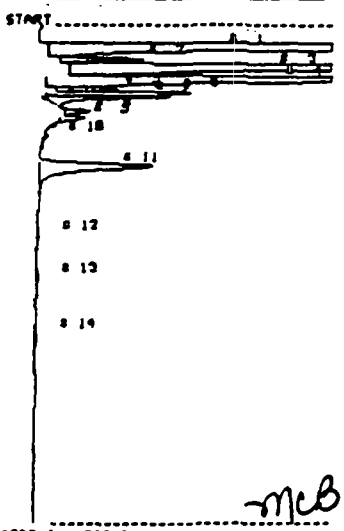
PHOTOVAC



STOP @ 859.9
SAMPLE LIBRARY 1 APR 22 1994 10:20
ANALYSIS # 3 MW-12
INTERNAL TEMP 20 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.3	0.000 PPB
UNKNOWN	3	56.9	352.1 mVS
T-DCE	4	87.5	31.35 PPB

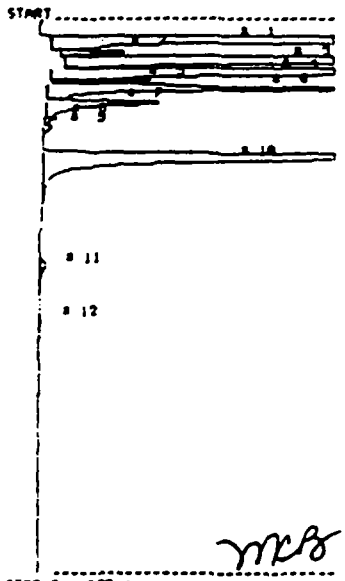
PHOTOVAC



STOP @ 785.9
SAMPLE LIBRARY 1 APR 22 1994 10:53
ANALYSIS # 5 MW-10
INTERNAL TEMP 20 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.5	0.000 PPB
UNKNOWN	2	52.9	2.0 VS
UNKNOWN	3	60.4	28.5 VS
T-DCE	4	87.2	45.21 PPB
UNKNOWN	5	103.6	1.2 VS
C-DCE	6	110.0	25.67 PPB
~~C-DCE~~	~~7~~	~~114.2~~	~~21.50 PPB~~ MCB
UNKNOWN	8	141.2	571.3 mVS
UNKNOWN	9	151.6	567.7 mVS
TCE	11	225.2	13.25 PPB
UNKNOWN	13	483.6	125.3 mVS

PHOTOVAC

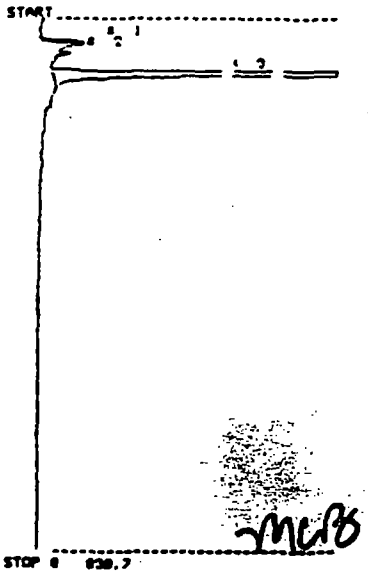


STOP @ 872.4
SAMPLE LIBRARY 1 APR 22 1994 11:10
ANALYSIS # 6 MW-8
INTERNAL TEMP 20 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.2	0.000 PPB
UNKNOWN	2	56.1	1.5 VS
UNKNOWN	3	67.8	32.2 VS
T-DCE	4	86.8	36.19 PPB OS
UNKNOWN	5	102.7	1.9 VS
C-DCE	6	114.6	33.27 PPB OS
UNKNOWN	7	148.4	3.7 VS
UNKNOWN	8	164.7	270.9 mVS
UNKNOWN	9	175.2	233.2 mVS
UNKNOWN	10	224.9	37.9 VS
UNKNOWN	11	355.2	338.2 mVS

OS - offscale
use reanalysis results

PHOTOVAC



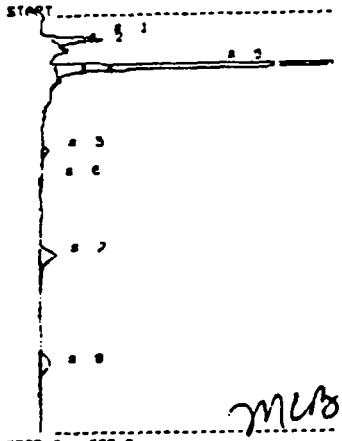
STOP @ 938.7
SAMPLE LIBRARY 1 APR 22 1994 10:44
ANALYSIS # 4 MW-7
INTERNAL TEMP 20 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.1	0.000 PPB
UNKNOWN	2	56.5	146.1 mVS
T-DCE	3	87.1	32.83 PPB

PHOTOVAC

2 COMPOUND	ID #	R.T.	LIMIT
INJ	1	24.8	1000. PPM
T-DCE	2	83.1	1000. PPM
C-DCE	3	107.8	1000. PPM
TCE	4	222.8	1000. PPM
TOLUENE	5	392.9	1000. PPM
PCE	6	570.2	1000. PPM

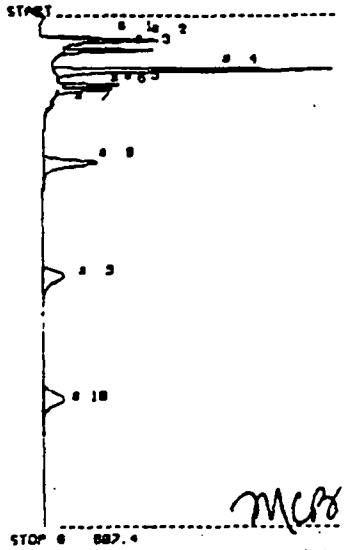
PHOTOVAC



STOP @ 662.3
SAMPLE LIBRARY 2 APR 21 1994 10:51
ANALYSIS # 11 VSS-1
INTERNAL TEMP 21 REANALYSIS
GAIN 10 750 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	41.1	1.2 US
T-DCE	3	83.3	36.12 PPB
TCE	5	229.2	1.286 PPB
TOLUENE	7	387.2	9.572 PPB
PCE	8	566.8	5.638 PPB

PHOTOVAC



STOP @ 887.4
SAMPLE LIBRARY 1 APR 22 1994 9:56
ANALYSIS # 1 LOW STD
INTERNAL TEMP 19
GAIN 10 750 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	37.1	0.000 PPB
UNKNOWN	2	42.3	888.9 mVS
UNKNOWN	3	57.7	1.1 VS
T-DCE	4	83.8	10.68 PPB
C-DCE	5	114.7	0.756 PPB
UNKNOWN	6	121.2	332.7 mVS
TCE	8	230.8	6.685 PPB
TOLUENE	9	424.5	4.552 PPB
PCE	10	622.3	6.273 PPB

PHOTOVAC

CALIBRATED PEAK 8.TCE

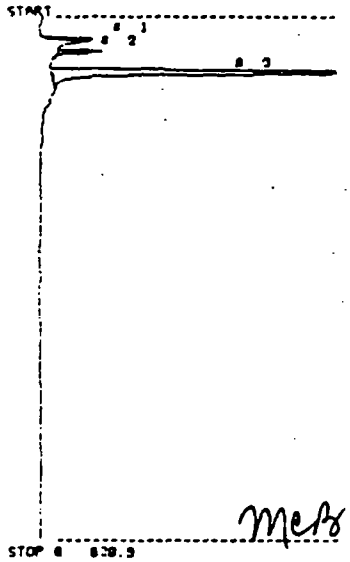
SAMPLE LIBRARY 1 APR 22 1994 9:56
ANALYSIS # 1 LOW STD
INTERNAL TEMP 19
GAIN 10 750 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	37.1	0.000 PPB
UNKNOWN	2	42.3	888.9 mVS
UNKNOWN	3	57.7	1.1 VS
T-DCE	4	83.8	10.68 PPB
C-DCE	5	114.7	0.756 PPB
UNKNOWN	6	121.2	332.7 mVS
TCE	8	230.8	6.685 PPB
TOLUENE	9	424.5	4.552 PPB
PCE	10	622.3	6.273 PPB

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
INJ	1	37.8	1000. PPM
T-DCE	2	88.8	1000. PPM
C-DCE	3	113.5	1000. PPM
TCE	4	238.8	1000. PPM
TOLUENE	5	424.8	1000. PPM
PCE	6	621.2	1000. PPM

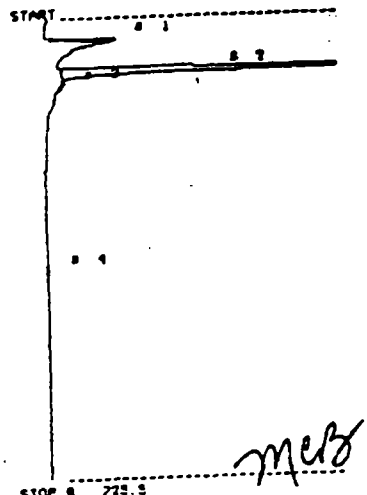
PHOTOVAC



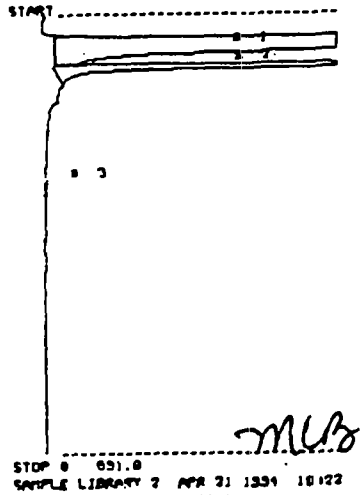
STOP @ 838.5
SAMPLE LIBRARY 1 APR 22 1994 10:15
ANALYSIS # 2 PRODUCTION WELL
INTERNAL TEMP 20 GW
GAIN 10 750 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	37.1	0.000 PPB
UNKNOWN	2	37.5	549.3 mVS
T-DCE	3	88.3	31.62 PPB

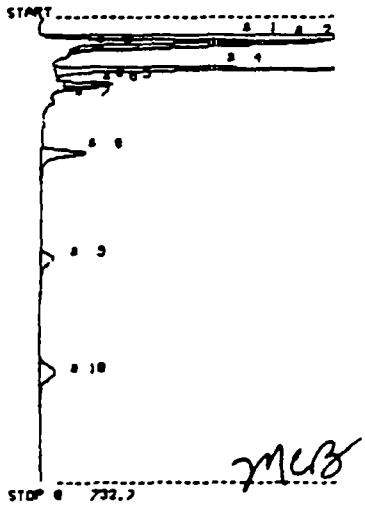
PHOTOVAC



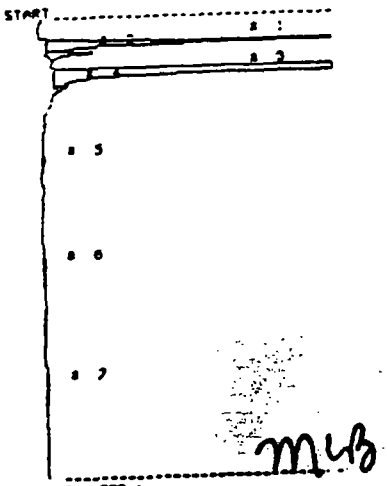
PHOTOVAC



PHOTOVAC



PHOTOVAC



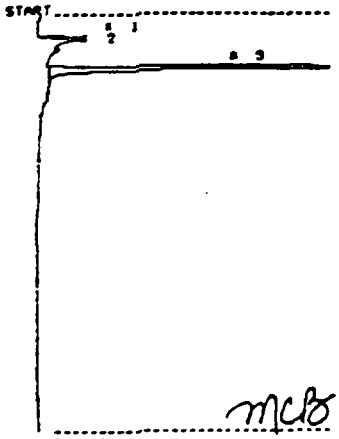
PHOTOVAC

CALIBRATED PEAK 6,TCE

SAMPLE LIBRARY 2 APR 21 1994 18:38
ANALYSIS # 10 LOW STD
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	33.7	0.000 PPB
T-DCE	4	84.7	14.69 PPB
C-DCE	5	188.4	13.18 PPB
UNKNOWN	6	113.8	570.4 mVS
TCE	8	272.8	18.28 PPB
TOLUENE	9	350.2	8.751 PPB
PCE	10	571.3	3.650 PPB

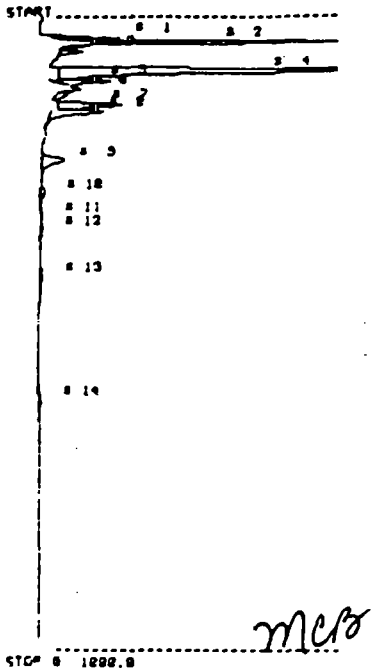
PHOTOVAC



STOP @ 658.1
SAMPLE LIBRARY 2 APR 21 1994 10:51
ANALYSIS # 3 VSB-6
INTERNAL TEMP 19 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	38.5	0.000 PPB
T-DCE	3	88.6	15.38 PPB

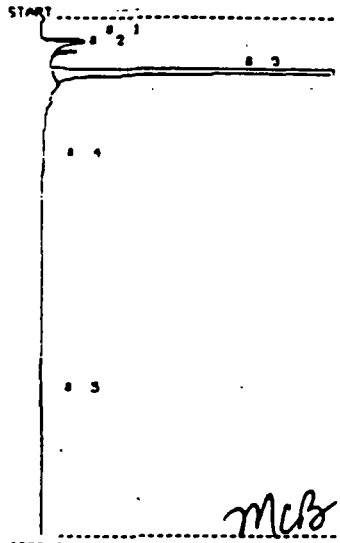
PHOTOVAC



STOP @ 1000.0
SAMPLE LIBRARY 2 APR 21 1994 17: 9
ANALYSIS # 4 VSB-3
INTERNAL TEMP 20 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	35.7	569.3 mVS
UNKNOWN	2	42.3	2.9 VS
UNKNOWN	3	57.5	342.4 mVS
T-DCE	4	88.3	45.85 PPB
UNKNOWN	5	106.6	676.8 mVS
UNKNOWN	7	145.6	1.5 VS
UNKNOWN	8	155.8	1.4 VS
TCE	9	235.8	5.493 PPB
UNKNOWN	10	288.3	172.4 mVS
TOLUENE	13	417.9	2.084 PPB

PHOTOVAC



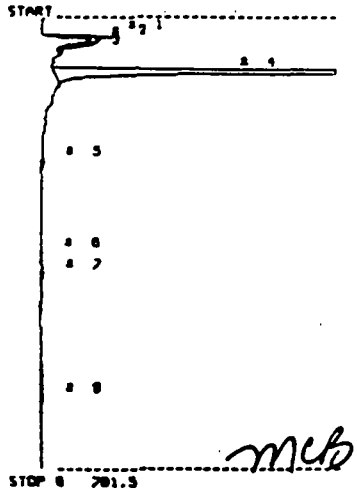
STOP @ 814.4
SAMPLE LIBRARY 2 APR 21 1994 17:26
ANALYSIS # 5 VSB-4
INTERNAL TEMP 20 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	38.4	0.000 PPB
UNKNOWN	2	56.5	234.5 mVS
T-DCE	3	87.3	46.97 PPB

PHOTOVAC

2 COMPOUND	ID #	R.T.	LIMIT
INJ	1	[illegible]	[illegible] PPB
T-DCE	2	[illegible]	[illegible] PPB
C-DCE	3	115.4	[illegible] PPB
TCE	4	[illegible]	[illegible] PPB
TOLUENE	5	[illegible]	[illegible] PPB
PCE	6	[illegible]	[illegible] PPB

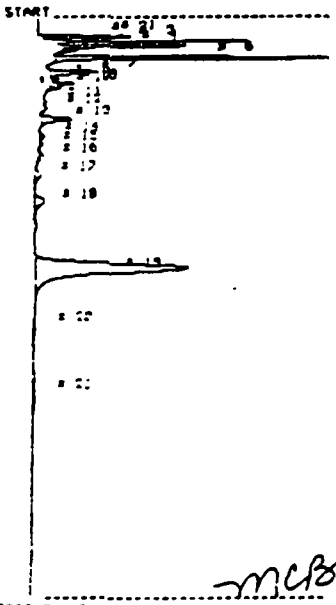
PHOTOVAC



STOP @ 701.5
SAMPLE LIBRARY 2 APR 21 1994 17:40
ANALYSIS # 6 VSB-5
INTERNAL TEMP 20 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.5	385.2 mVS
T-DCE	4	88.5	49.60 PPB
TOLUENE	7	404.7	1.334 PPB

PHOTOVAC



STOP @ 914.9
SAMPLE LIBRARY 1 APR 19 1994 10:44
ANALYSIS # 45 MW-3
INTERNAL TEMP 20 LNAPL
GAIN 10 25 UL INJ

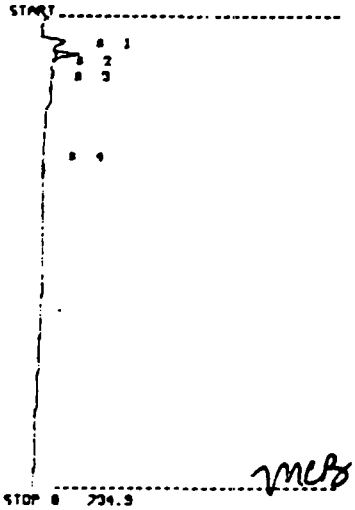
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.2	538.1 mVS
UNKNOWN	2	34.6	381.4 mVS
UNKNOWN	3	40.9	1.3 VS
UNKNOWN	4	48.9	1.1 VS
UNKNOWN	5	55.9	120.5 mVS
UNKNOWN	6	66.9	3.9 VS
T-DCE	7	91.9	2.044 PPB
UNKNOWN	8	103.6	162.0 mVS
C-DCE	9	112.5	3.429 PPB
~~C-DCE~~	~~10~~	~~[illegible]~~	~~[illegible] PPB~~ MCB
UNKNOWN	13	170.2	710.5 mVS
TCE	16	232.4	8.419 PPB
UNKNOWN	17	260.5	177.3 mVS
UNKNOWN	18	301.9	395.5 mVS
TOLUENE	19	420.0	30.72 PPB

X 10

PHOTOVAC

COMPOUND	ID #	R.T.	LIMIT
INJ	1	32.0	1000. PPM
T-DCE	2	88.0	1000. PPM
C-DCE	3	113.5	1000. PPM
TCE	4	238.0	1000. PPM
TOLUENE	5	424.0	1000. PPM
PCE	6	621.2	1000. PPM

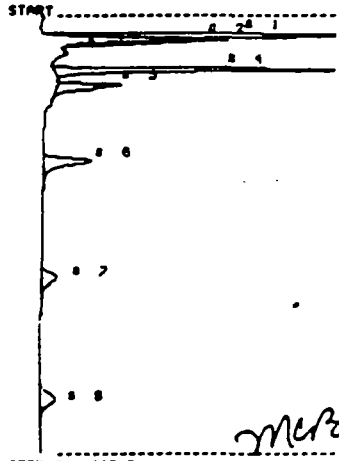
PHOTOVAC



STOP @ 734.9
SAMPLE LIBRARY 1 APR 21 1994 16:24
ANALYSIS # 1 AIR BLANK
INTERNAL TEMP 18
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	63.3	437.6 mVS

PHOTOVAC



STOP @ 692.3
SAMPLE LIBRARY 2 APR 21 1994 16:37
ANALYSIS # 2 LOW STD
INTERNAL TEMP 19 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	33.3	0.000 PPB
UNKNOWN	4	89.4	6.4 VS
UNKNOWN	5	115.3	1.0 VS
UNKNOWN	6	239.5	2.0 VS
UNKNOWN	7	425.6	1.0 VS
UNKNOWN	8	622.3	1.0 VS

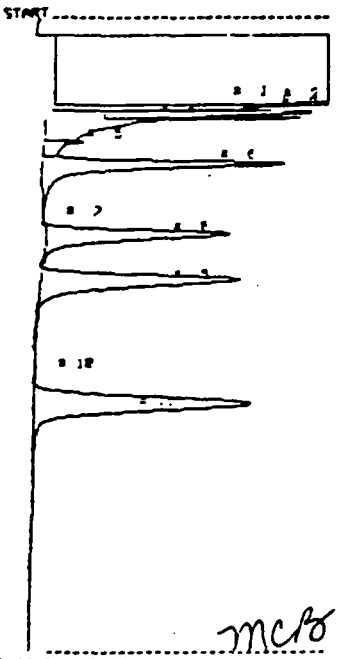
PHOTOVAC

CALIBRATED PEAK 6,TCE

SAMPLE LIBRARY 2 APR 21 1994 16:38
ANALYSIS # 2 LOW STD
INTERNAL TEMP 19 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	33.3	5.7 VS
T-DCE	4	89.4	10.51 PPB
C-DCE	5	115.3	26.12 PPB
TCE	6	239.5	13.38 PPB
TOLUENE	7	425.6	11.65 PPB
PCE	8	622.3	0.180 PPB

PHOTOVAC

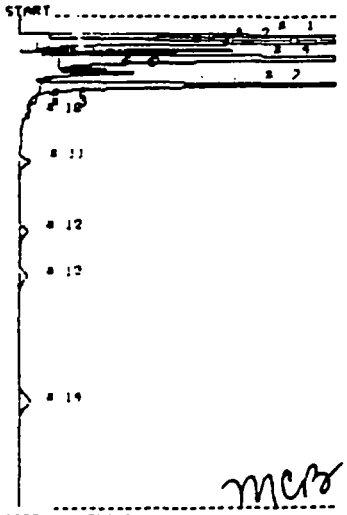


mcb

STOP @ 1000.0
SAMPLE LIBRARY 1 APR 18 1994 9:28
ANALYSIS # 42 SO-6-68
INTERNAL TEMP 15 GW
GAIN 18 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	84.2	2.8 AUS
UNKNOWN	2	142.5	6.7 US
UNKNOWN	3	156.4	5.1 US
UNKNOWN	4	166.7	8.8 US
UNKNOWN	5	284.8	1.6 US
TCE	6	238.2	36.39 PPB
UNKNOWN	8	352.8	18.8 US
TOLUENE	9	424.5	44.58 PPB
PCE	11	623.5	76.14 PPB

PHOTOVAC



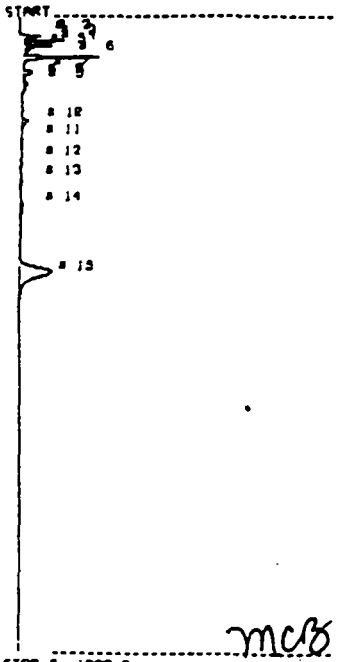
mcb

STOP @ 773.6
SAMPLE LIBRARY 1 APR 18 1994 9:48
ANALYSIS # 43 SO-6-68
INTERNAL TEMP 15 REANALYSIS
GAIN 2 50 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	32.9	2.3 US
UNKNOWN	2	42.2	16.8 US
UNKNOWN	3	56.5	2.1 US
UNKNOWN	4	69.1	23.8 US
T-DCE	5	88.3	2.626 PPB ←
~~T-DCE~~	~~6~~	~~89.1~~	~~13.88 PPB~~ MCB
C-DCE	7	112.2	381.3 PPB ←
TCE	11	237.8	5.413 PPB
UNKNOWN	12	250.2	326.4 AUS
TOLUENE	13	422.3	7.881 PPB
PCE	14	628.7	16.58 PPB

x 5

PHOTOVAC



mcb

STOP @ 1000.0
SAMPLE LIBRARY 1 APR 18 1994 10:25
ANALYSIS # 44 MW-3
INTERNAL TEMP 28 LNAPL
GAIN 2 ~~50 UL INJ~~ MCB

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	3	41.1	244.3 AUS
UNKNOWN	4	49.1	221.8 AUS
UNKNOWN	6	67.7	689.4 AUS
T-DCE	7	92.5	1.676 PPB
UNKNOWN	10	172.2	118.8 AUS
TOLUENE	15	412.4	38.34 PPB

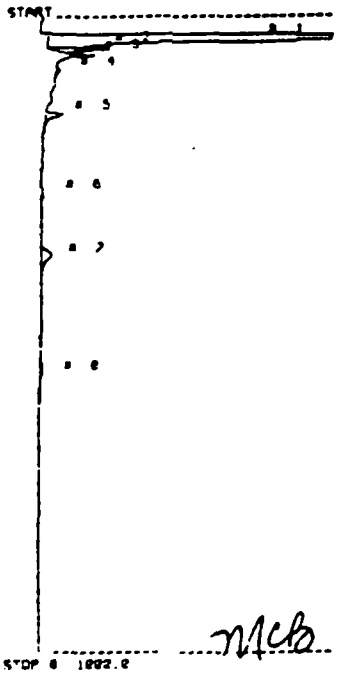
PHOTOVAC

SAMPLE LIBRARY 1 APR 18 1994 10:27
ANALYSIS # 44 MW-3
INTERNAL TEMP 28 LNAPL
GAIN 2 25 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	3	41.1	244.3 AUS
UNKNOWN	4	49.1	221.8 AUS
UNKNOWN	6	67.7	689.4 AUS
T-DCE	7	92.5	1.676 PPB
UNKNOWN	10	172.2	118.8 AUS
TOLUENE	15	412.4	38.34 PPB

X 10

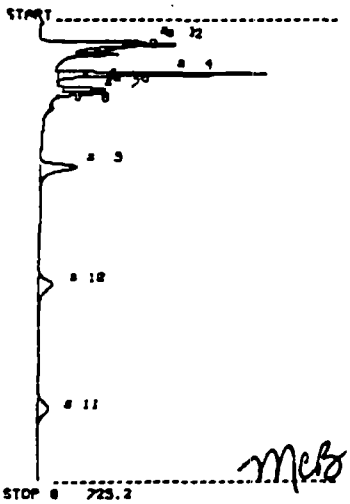
PHOTOVAC



STOP # 1002.0
SAMPLE LIBRARY 1 APR 17 1994 18:47
ANALYSIS # 39 SG-5-4
INTERNAL TEMP 21 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	36.5	15.2 VS
UNKNOWN	2	54.5	850.2 mVS
UNKNOWN	3	64.9	263.5 mVS
UNKNOWN	5	162.2	423.1 mVS
TOLUENE	[illegible]	385.2	1.943 PPB
PCE	8	565.8	0.742 PPB

PHOTOVAC



STOP # 725.2
SAMPLE LIBRARY 1 APR 18 1994 8:50
ANALYSIS # 40 LOW STD
INTERNAL TEMP 19 WATER
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	36.8	383.8 mVS
UNKNOWN	2	41.9	259.3 mVS
UNKNOWN	3	57.3	548.7 mVS
UNKNOWN	4	89.2	3.4 VS
UNKNOWN	6	114.1	788.1 mVS
UNKNOWN	7	128.4	822.8 mVS
UNKNOWN	9	238.8	1.3 VS
UNKNOWN	10	425.6	840.7 mVS
UNKNOWN	11	625.5	766.8 mVS

PHOTOVAC

CALIBRATED PEAK 9,TCE

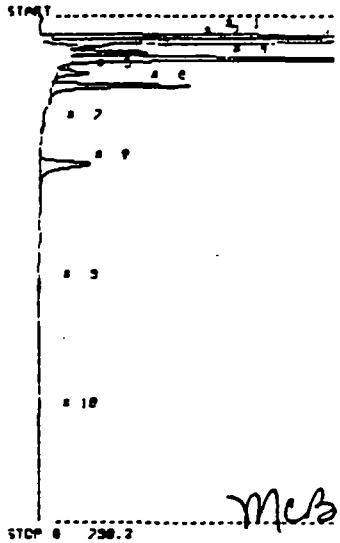
SAMPLE LIBRARY 1 APR 18 1994 9:31
ANALYSIS # 40 LOW STD
INTERNAL TEMP 19 WATER
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.8	8.000 PPB
UNKNOWN	2	41.9	259.3 mVS
UNKNOWN	3	57.3	548.7 mVS
T-DCE	4	89.2	7.644 PPB
C-DCE	6	114.1	6.845 PPB
UNKNOWN	7	128.4	822.8 mVS
TCE	9	238.8	4.231 PPB
TOLUENE	10	425.6	2.825 PPB
PCE	11	625.5	3.274 PPB

PHOTOVAC

1 COMPOUND	ID #	R.T.	LIMIT
INJ	1	37.8	1000. PPM
T-DCE	2	88.8	1000. PPM
C-DCE	3	113.5	1000. PPM
TCE	4	238.8	1000. PPM
TOLUENE	5	424.0	1000. PPM
PCE	6	621.7	1000. PPM

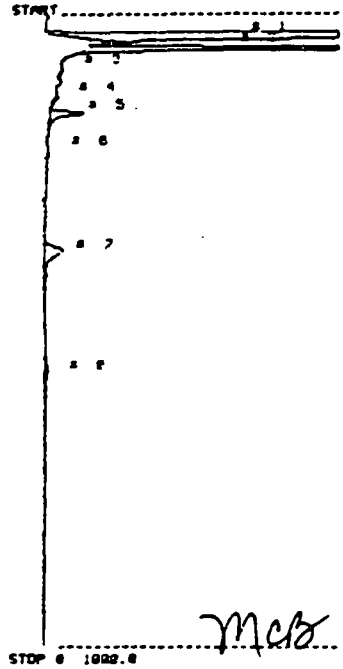
PHOTOVAC



STOP # 730.2
SAMPLE LIBRARY 1 APR 18 1994 9: 7
ANALYSIS # 41 SG-1-9
INTERNAL TEMP 19 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.3	3.9 VS
UNKNOWN	2	41.1	8.9 VS
UNKNOWN	3	55.7	1.0 VS
UNKNOWN	4	68.0	11.0 VS
UNKNOWN	5	93.7	783.0 mVS
C-DCE	6	113.8	23.20 PPB
TCE	8	238.8	6.257 PPB

PHOTOVAC

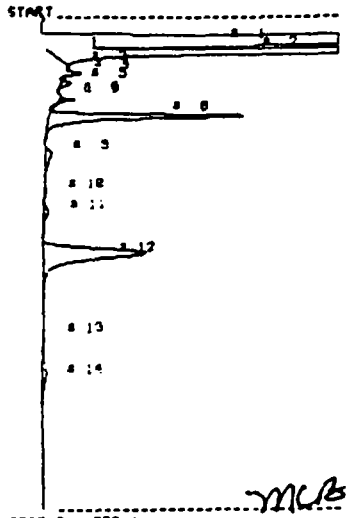


MCB

STOP @ 1002.8
SAMPLE LIBRARY 2 APR 17 1994 16:50
ANALYSIS # 34 SB-2-7
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/P	
INJ	1	35.4	0.002	PPB
UNKNOWN	2	56.2	8.8	US
UNKNOWN	5	162.7	300.0	nUS
TOLUENE	7	387.2	11.65	PPB
PCE	8	574.3	1.551	PPB

PHOTOVAC

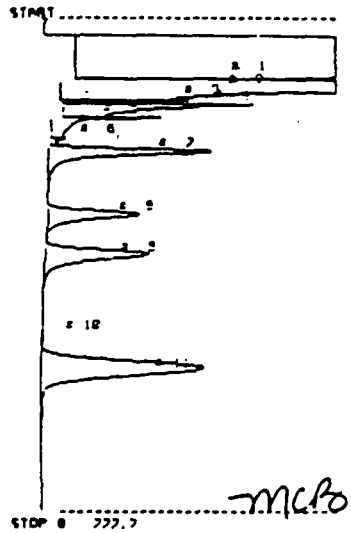


MCB

STOP @ 779.4
SAMPLE LIBRARY 1 APR 17 1994 17:56
ANALYSIS # 36 SB-2-7
INTERNAL TEMP 21 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB	
UNKNOWN	1	38.1	78.5	US
UNKNOWN	2	56.3	28.9	US
UNKNOWN	4	93.1	191.8	nUS
C-DCE	5	108.1	2.259	PPB
UNKNOWN	7	136.0	114.6	nUS
UNKNOWN	8	162.2	5.5	US
TCE	9	224.4	1.861	PPB
UNKNOWN	11	228.5	233.9	nUS
TOLUENE	12	386.2	21.83	PPB
PCE	14	577.3	1.228	PPB

PHOTOVAC



MCB

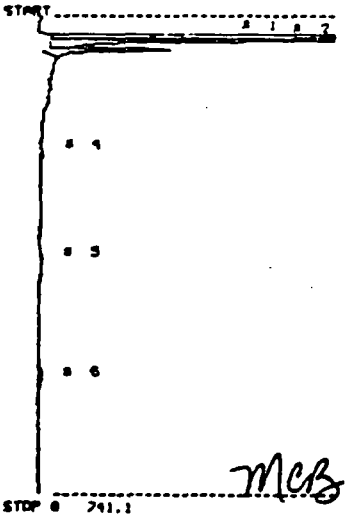
STOP @ 777.7
SAMPLE LIBRARY 1 APR 17 1994 18:12
ANALYSIS # 37 SB-6-6A
INTERNAL TEMP 21 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB	
UNKNOWN	1	63.3	1.8	KUS
C-DCE	2	108.3	257.6	PPB OS
UNKNOWN	3	135.6	2.2	US
UNKNOWN	4	142.4	6.5	US
UNKNOWN	5	162.7	3.2	US
UNKNOWN	6	197.2	393.6	nUS
TCE	7	219.8	28.65	PPB
UNKNOWN	8	228.5	4.7	US
TOLUENE	9	385.2	28.34	PPB
PCE	11	565.3	68.24	PPB

X 2

OS - offscale - use reanalysis results

PHOTOVAC

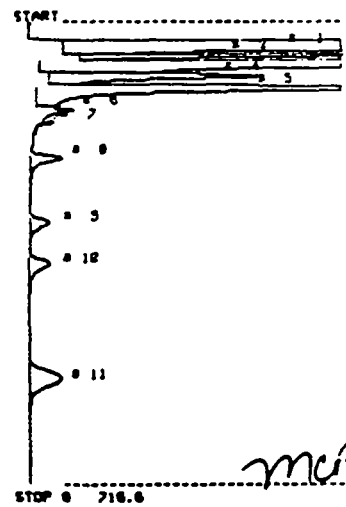


MCB

STOP @ 741.1
SAMPLE LIBRARY 2 APR 17 1994 17:28
ANALYSIS # 33 SB-1-6
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB	
UNKNOWN	1	32.2	18.4	US
UNKNOWN	2	39.5	3.1	US
UNKNOWN	3	53.1	1.3	US
PCE	6	571.3	1.383	PPB

PHOTOVAC



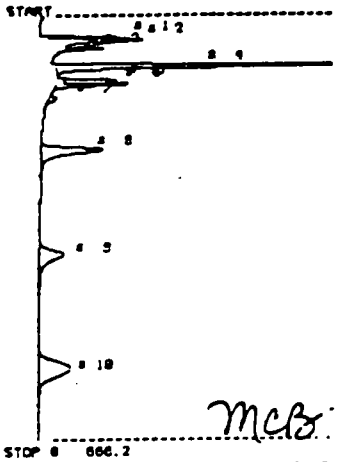
MCB

STOP @ 718.6
SAMPLE LIBRARY 1 APR 17 1994 18:27
ANALYSIS # 38 SB-6-6A
INTERNAL TEMP 21 GW Reanalysis
GAIN 2 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB	
UNKNOWN	1	38.1	81.8	US
UNKNOWN	2	54.2	6.6	US
UNKNOWN	3	66.3	35.7	US
UNKNOWN	4	88.3	8.4	US
C-DCE	5	108.1	1.853	PPB ←
UNKNOWN	6	142.4	125.3	nUS
TCE	8	215.8	16.58	PPB
UNKNOWN	9	221.4	531.1	nUS
TOLUENE	10	388.2	19.58	PPB
PCE	11	566.8	58.58	PPB

X 2

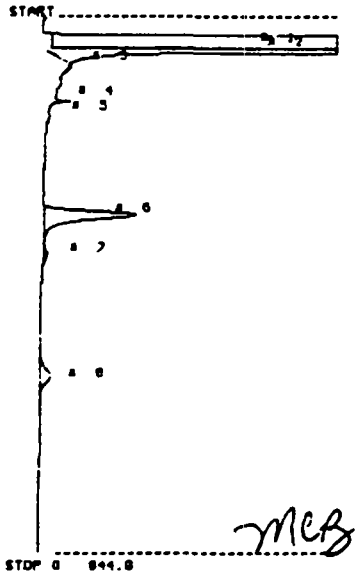
PHOTOVAC



STOP @ 666.2
SAMPLE LIBRARY 1 APR 17 1994 15: 2
ANALYSIS # 38 LOW STD
INTERNAL TEMP 21 WATER
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.7	8.000 PPB
UNKNOWN	2	48.3	289.5 mVS
UNKNOWN	3	54.7	425.1 mVS
T-DCE	4	83.4	10.68 PPB
C-DCE	5	106.3	8.468 PPB
C-DCE	6	111.7	11.12 PPB
UNKNOWN	7	135.6	174.5 mVS
TCE	8	219.6	6.555 PPB
TOLUENE	9	287.2	4.555 PPB
PCE	10	568.3	11.15 PPB

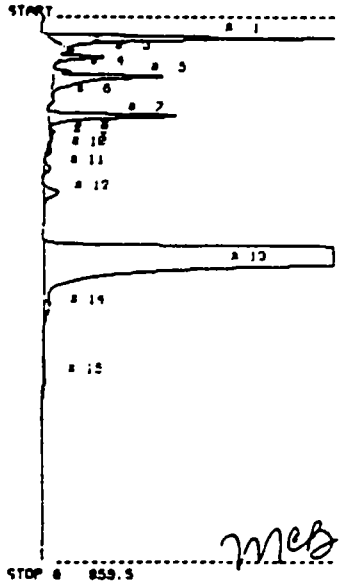
PHOTOVAC



STOP @ 844.8
SAMPLE LIBRARY 1 APR 17 1994 15:28
ANALYSIS # 31 SG-4-5
INTERNAL TEMP 21 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	48.7	132.5 US
UNKNOWN	2	55.6	2.7 US
UNKNOWN	4	138.4	183.8 mVS
UNKNOWN	6	721.4	4.8 US
TOLUENE	7	385.2	8.772 PPB
PCE	8	568.3	5.827 PPB

PHOTOVAC



STOP @ 859.5
SAMPLE LIBRARY 1 APR 17 1994 16:14
ANALYSIS # 32 SG-3-2
INTERNAL TEMP 21 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.5	8.000 PPB
UNKNOWN	3	65.5	728.0 mVS
UNKNOWN	4	98.1	225.8 mVS
UNKNOWN	5	97.9	3.2 US
UNKNOWN	7	163.2	3.4 US
TCE	10	219.6	8.318 PPB
UNKNOWN	11	247.9	243.5 mVS
UNKNOWN	12	287.5	706.5 mVS
TOLUENE	13	386.6	662.6 PPB OS
UNKNOWN	14	467.6	584.7 mVS
PCE	15	575.8	1.243 PPB

OS - offscale - use reanalysis results

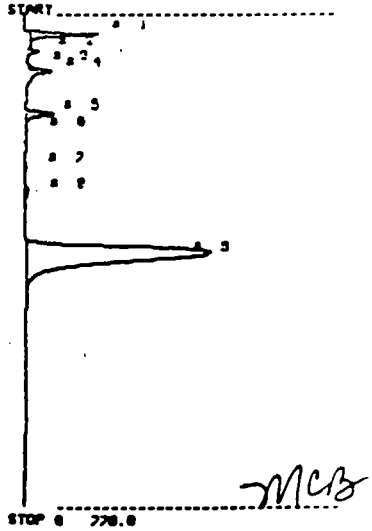
PHOTOVAC

CALIBRATED PEAK 8/TCE

SAMPLE LIBRARY 1 APR 17 1994 15: 3
ANALYSIS # 38 LOW STD
INTERNAL TEMP 21 WATER
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.7	8.000 PPB
UNKNOWN	2	48.3	289.5 mVS
UNKNOWN	3	54.7	425.1 mVS
T-DCE	4	83.4	10.68 PPB
C-DCE	5	106.3	8.468 PPB
UNKNOWN	6	111.7	1.2 US
UNKNOWN	7	135.6	174.5 mVS
TCE	8	219.6	6.555 PPB
TOLUENE	9	287.2	4.555 PPB
PCE	10	568.3	11.15 PPB

PHOTOVAC



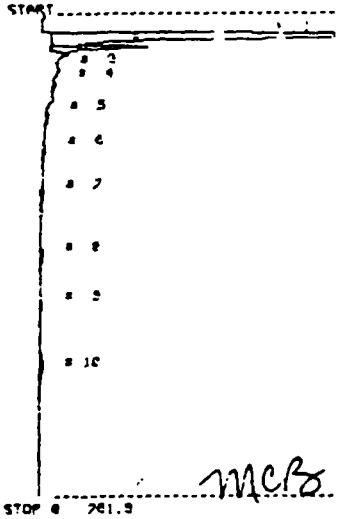
STOP @ 778.8
SAMPLE LIBRARY 1 APR 17 1994 16:29
ANALYSIS # 33 SG-3-2
INTERNAL TEMP 21 REANALYSIS
GAIN 2 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.6	8.000 PPB
UNKNOWN	2	65.7	114.9 mVS
UNKNOWN	4	97.9	373.6 mVS
UNKNOWN	5	102.7	721.7 mVS
UNKNOWN	6	287.5	143.4 mVS
TOLUENE	9	386.2	282.7 PPB

PHOTOVAC

2 COMPOUND	ID #	R.T.	LIMIT
INJ	1	34.6	1000. PPB
T-DCE	2	91.7	1000. PPB
C-DCE	3	186.4	1000. PPB
TCE	4	212.3	1000. PPB
TOLUENE	5	328.8	1000. PPB
PCE	6	572.1	1000. PPB

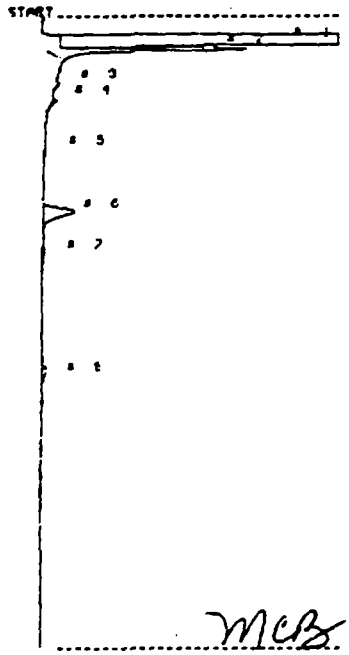
PHOTOVAC



STOP @ 781.9
SAMPLE LIBRARY 2 APR 17 1994 12:12
ANALYSIS # 28 SG-3-4
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	38.6	13.7 US
UNKNOWN	2	54.9	1.3 US
TOLUENE	8	387.2	1.228 PPB
PCE	10	572.8	2.247 PPB

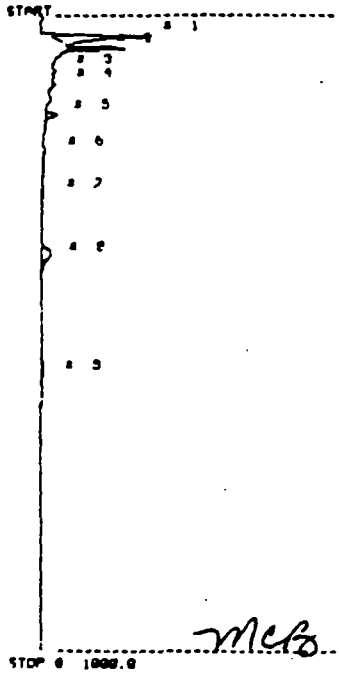
PHOTOVAC



STOP @ 1000.0
SAMPLE LIBRARY 2 APR 17 1994 13:36
ANALYSIS # 27 SG-4-5
INTERNAL TEMP 28 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	38.7	42.2 US
UNKNOWN	2	55.1	3.8 US
UNKNOWN	6	328.5	1.5 US
PCE	8	572.3	2.872 PPB

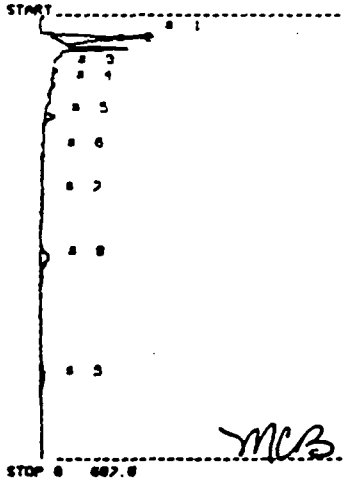
PHOTOVAC



STOP @ 1000.0
SAMPLE LIBRARY 2 APR 17 1994 14:3
ANALYSIS # 29 SG-3-4
INTERNAL TEMP 21 REANALYSIS
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
INJ	1	35.5	0.000 PPB
UNKNOWN	2	54.7	630.5 uVS
UNKNOWN	5	182.2	286.4 uVS
TOLUENE	8	385.2	3.836 PPB
PCE	9	569.8	1.458 PPB

PHOTOVAC



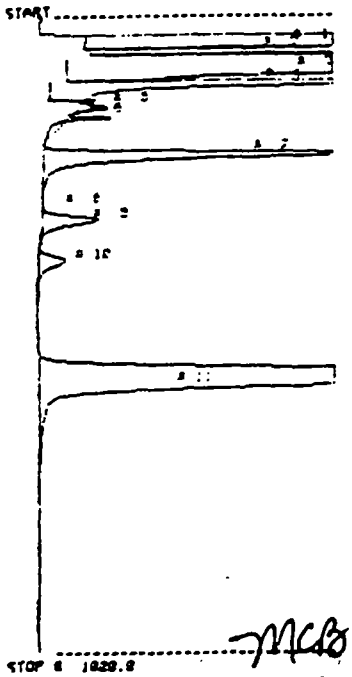
STOP @ 687.8
SAMPLE LIBRARY 2 APR 17 1994 13:51
ANALYSIS # 28 SG-3-4
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
INJ	1	35.6	0.000 PPB
UNKNOWN	2	54.9	617.7 uVS
UNKNOWN	5	182.7	213.4 uVS
TOLUENE	8	386.2	4.822 PPB
PCE	9	572.8	1.342 PPB

PHOTOVAC

COMPOUND	ID #	R.T.	AREA
INJ	1	34.3	1832. PPB
T-DCE	2	[illegible]	[illegible] PPB
C-DCE	3	[illegible]	[illegible] PPB
TCE	4	224.4	1222. PPB
TOLUENE	5	255.4	1822. PPB
PCE	6	573.8	1700. PPB

PHOTOVAC



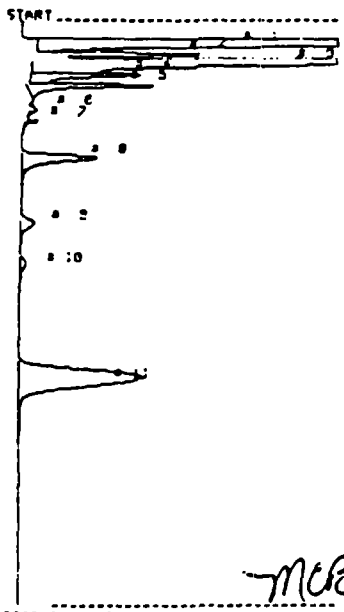
MCB

STOP @ 1020.8
SAMPLE LIBRARY 1 APR 17 1994 11:21
ANALYSIS # 23 SG-6-18
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	[illegible]	[illegible]	US
UNKNOWN	2	[illegible]	[illegible]	US
UNKNOWN	3	77.2	[illegible]	US
C-DCE	4	107.2	[illegible] PPB	OS
UNKNOWN	5	140.8	729.1 mVS	
TCE	7	221.3	57.13 PPB	OS
UNKNOWN	9	320.6	2.8 [illegible]	
TOLUENE	10	334.2	2.222 PPB	
PCE	11	573.2	736.8 PPB	OS

OS - offscale - use reanalysis results

PHOTOVAC

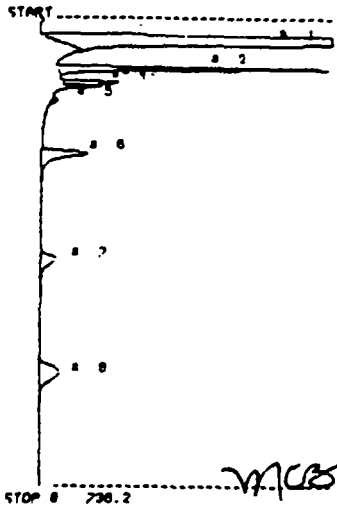


MCB

STOP @ 316.9
SAMPLE LIBRARY 1 APR 17 1994 11:38
ANALYSIS # 24 SG-6-18
INTERNAL TEMP 29 REANALYSIS
GAIN 2 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	36.7	54.4	US
UNKNOWN	2	56.7	3.2	US
UNKNOWN	3	67.8	38.4	US
UNKNOWN	4	88.9	3.2	US
C-DCE	5	107.2	131.2	PPB ←
UNKNOWN	6	146.8	151.6	mVS
TCE	8	221.4	44.85	PPB ←
UNKNOWN	9	325.8	675.4	mVS
TOLUENE	10	331.2	3.213	PPB
PCE	11	574.3	241.6	PPB ←

PHOTOVAC



MCB

STOP @ 736.2
SAMPLE LIBRARY 2 APR 17 1994 11:53
ANALYSIS # 25 LOW STD
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.3	8.000 PPB
T-DCE	2	84.1	12.75 PPB
C-DCE	3	106.9	13.36 PPB
~~C-DCE~~	~~4~~	~~110.8~~	~~7.000 PPB~~ MCB
UNKNOWN	5	136.4	132.3 mVS
TCE	6	220.8	10.91 PPB
TOLUENE	7	383.2	10.81 PPB
PCE	8	572.8	13.22 PPB

PHOTOVAC

CALIBRATED PEAK 6,TCE

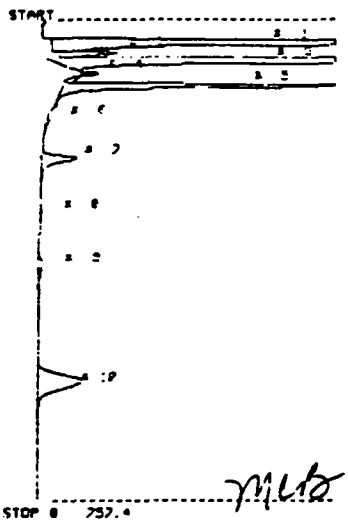
SAMPLE LIBRARY 2 APR 17 1994 11:56
ANALYSIS # 25 LOW STD
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.3	8.000 PPB
T-DCE	2	84.1	12.75 PPB
C-DCE	3	106.9	13.36 PPB
~~C-DCE~~	~~4~~	~~110.8~~	~~7.000 PPB~~ MCB
UNKNOWN	5	136.4	132.3 mVS
TCE	6	220.8	10.91 PPB
TOLUENE	7	383.2	10.81 PPB
PCE	8	572.8	13.23 PPB

PHOTOVAC

COMPOUND	PEAK #	R.T.	LIMIT
INJ	1	36.4	1000. PPB
T-DCE	2	84.8	1000. PPB
C-DCE	3	[illegible]	[illegible] PPB
TCE	4	225.8	1000. PPB
TOLUENE	5	[illegible]	1000. PPB
PCE	6	[illegible]	[illegible] PPB

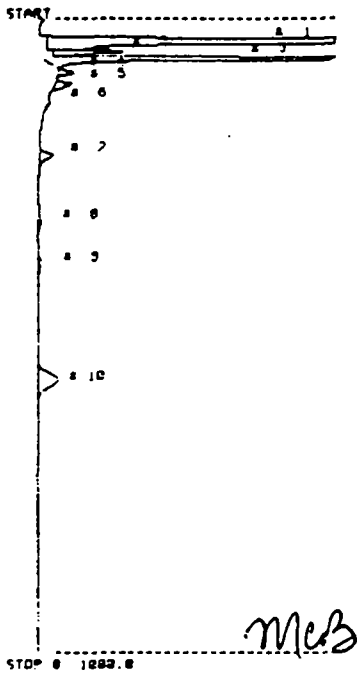
PHOTOVAC



STOP @ 757.4
SAMPLE LIBRARY 2 APR 16 1994 20:18
ANALYSIS # 20 SO-6-18
INTERNAL TEMP 20 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	37.2	0.000 PPB
UNKNOWN	2	55.3	1.5 US
UNKNOWN	3	66.0	19.7 US
UNKNOWN	4	85.5	231.4 uVS
C-DCE	5	107.2	30.17 PPB
TCE	7	225.0	0.347 PPB
TOLUENE	9	350.2	2.427 PPB
PCE	10	506.3	20.00 PPB

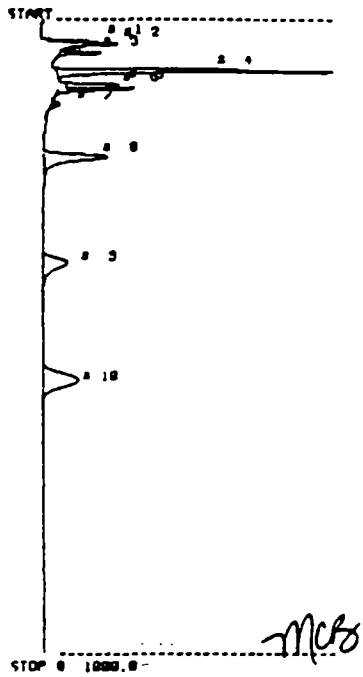
PHOTOVAC



STOP @ 1283.8
SAMPLE LIBRARY 2 APR 16 1994 20:32
ANALYSIS # 21 SO-6-4
INTERNAL TEMP 20 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	37.3	16.1 US
UNKNOWN	2	55.7	1.7 US
UNKNOWN	3	65.5	9.9 US
UNKNOWN	4	90.1	318.5 uVS
C-DCE	5	108.4	6.149 PPB
TCE	7	225.0	3.178 PPB
UNKNOWN	8	331.3	133.7 uVS
TOLUENE	9	350.2	1.887 PPB
PCE	10	506.3	12.06 PPB

PHOTOVAC



STOP @ 1000.0
SAMPLE LIBRARY 1 APR 17 1994 10:50
ANALYSIS # 22 LOW STD
INTERNAL TEMP 20 WATER
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.2	0.000 PPB
UNKNOWN	2	41.3	381.2 uVS
UNKNOWN	3	55.5	471.0 uVS
T-DCE	4	84.0	10.55 PPB
C-DCE	5	108.4	8.683 PPB
UNKNOWN	6	114.1	1.2 US
UNKNOWN	7	130.0	162.6 uVS
TCE	8	224.4	7.334 PPB
TOLUENE	9	350.2	5.383 PPB
PCE	10	503.3	12.33 PPB

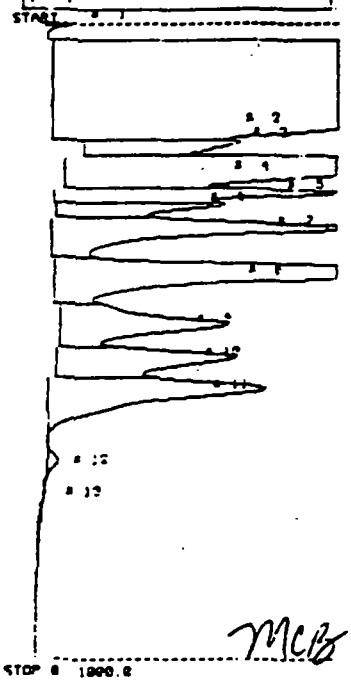
PHOTOVAC

CALIBRATED PEAK 8.TCE

SAMPLE LIBRARY 1 APR 17 1994 11:0
ANALYSIS # 22 LOW STD
INTERNAL TEMP 20 WATER
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.2	0.000 PPB
UNKNOWN	2	41.3	381.2 uVS
UNKNOWN	3	55.5	471.0 uVS
T-DCE	4	84.0	10.55 PPB
C-DCE	5	108.4	8.683 PPB
UNKNOWN	6	114.1	1.2 US
UNKNOWN	7	130.0	162.6 uVS
TCE	8	224.4	7.334 PPB
TOLUENE	9	350.2	5.383 PPB
PCE	10	503.3	12.33 PPB

PHOTOVAC

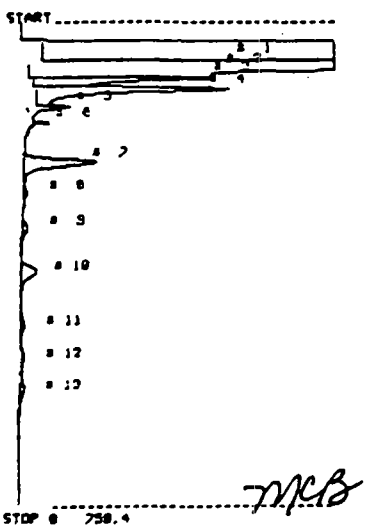


STOP @ 1000.0
SAMPLE LIBRARY 3 APR 16 1994 19:13
ANALYSIS # 12 SG-6
INTERNAL TEMP 20 AIR
GAIN 50 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	100.2	2.4 KUS
UNKNOWN	3	133.7	12.4 US
TCE	4	225.0	3.865 PPM OS
UNKNOWN	5	274.0	12.7 US
UNKNOWN	6	294.7	3.3 US
UNKNOWN	7	328.5	37.2 US
TOLUENE	8	336.0	4.023 PPM OS
UNKNOWN	9	484.5	21.7 US
UNKNOWN	10	538.3	13.5 US
PCE	11	583.3	646.0 PPB
UNKNOWN	12	706.1	837.0 mUS

OS - Offscale
Use reanalysis results

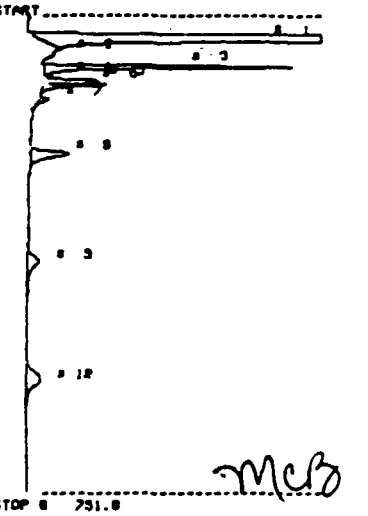
PHOTOVAC



STOP @ 750.4
SAMPLE LIBRARY 3 APR 16 1994 19:35
ANALYSIS # 10 SG-6
INTERNAL TEMP 20 REANALYSIS
GAIN 2 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	45.4	222.5 US
UNKNOWN	2	65.4	22.1 US
T-DCE	3	98.1	1.231 PPM ←
C-DCE	4	109.3	6.030 PPM ←
UNKNOWN	5	130.4	1.0 US
TCE	7	220.0	1.045 PPM ←
UNKNOWN	9	332.2	332.6 mUS
TOLUENE	10	400.3	770.6 PPB ←
UNKNOWN	11	466.2	242.3 mUS
UNKNOWN	12	530.3	100.5 mUS
PCE	13	583.3	100.3 PPB

PHOTOVAC



STOP @ 751.0
SAMPLE LIBRARY 2 APR 16 1994 19:53
ANALYSIS # 13 LOW STD
INTERNAL TEMP 20 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	35.7	45.0 US
UNKNOWN	3	85.0	4.2 US
UNKNOWN	4	101.5	133.5 mUS
UNKNOWN	5	100.4	300.0 mUS
C-DCE	6	114.1	15.02 PPB
UNKNOWN	7	130.0	201.9 mUS
UNKNOWN	8	225.0	1.4 US
UNKNOWN	9	359.2	673.9 mUS
UNKNOWN	10	500.3	1.0 US

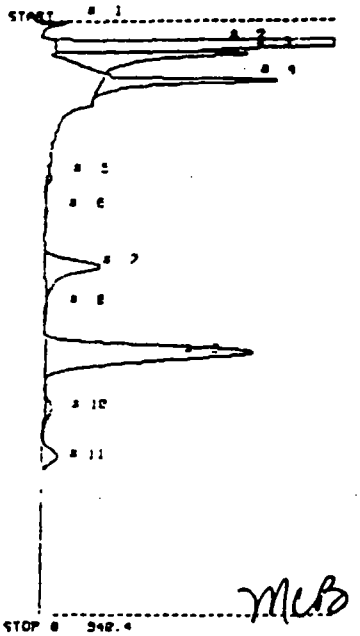
PHOTOVAC

CALIBRATED PEAK 8,TCE

SAMPLE LIBRARY 2 APR 16 1994 19:54
ANALYSIS # 13 LOW STD
INTERNAL TEMP 20 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.7	0.000 PPB
T-DCE	3	85.0	12.21 PPB
UNKNOWN	4	101.5	133.5 mUS
C-DCE	5	100.4	13.29 PPB
~~C-DCE~~	~~6~~	~~114.1~~	~~16.62 PPB~~ MCB
UNKNOWN	7	130.0	201.9 mUS
TCE	8	225.0	3.445 PPB
TOLUENE	9	359.2	7.329 PPB
PCE	10	500.3	0.033 PPB

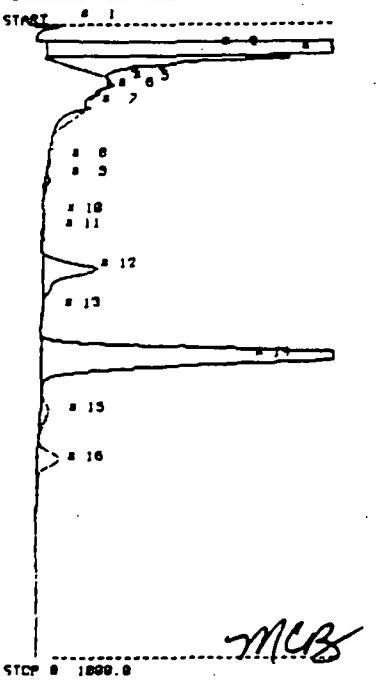
PHOTOVAC



STOP @ 942.4
SAMPLE LIBRARY 3 APR 16 1994 10:24
ANALYSIS # 14 SD-3
INTERNAL TEMP 20 AIR
GAIN 50 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	2	30.2	0.000 PPB
UNKNOWN	3	55.9	8.2 US
UNKNOWN	4	100.0	5.6 US
UNKNOWN	5	255.6	126.7 mUS
TOLUENE	7	399.2	133.7 PPB
UNKNOWN	9	539.7	18.4 US
UNKNOWN	10	627.1	678.3 mUS
UNKNOWN	11	706.1	1.1 US

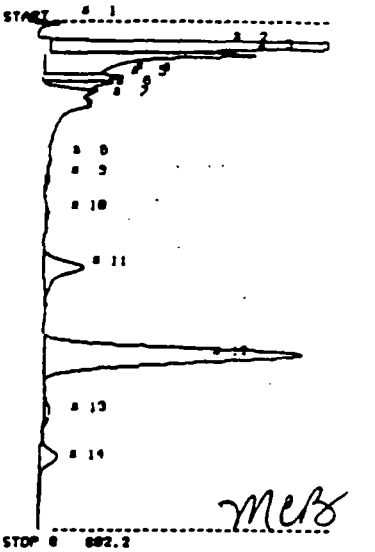
PHOTOVAC



STOP @ 1800.0
SAMPLE LIBRARY 3 APR 16 1994 10:44
ANALYSIS # 15 SD-4
INTERNAL TEMP 20 AIR
GAIN 50 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	40.3	65.9 US
UNKNOWN	3	55.7	10.0 US
UNKNOWN	5	100.3	168.2 mUS
UNKNOWN	9	255.8	169.3 mUS
TOLUENE	12	350.2	141.0 PPB
UNKNOWN	14	533.3	62.2 US
UNKNOWN	15	627.1	824.4 mUS
UNKNOWN	16	704.3	1.6 US

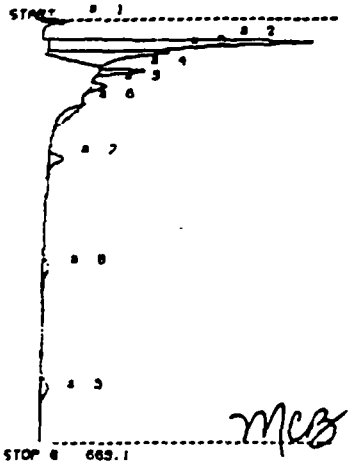
PHOTOVAC



STOP @ 882.2
SAMPLE LIBRARY 3 APR 16 1994 15: 0
ANALYSIS # 16 SD-5
INTERNAL TEMP 20 AIR
GAIN 50 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	2	30.5	0.000 PPB
UNKNOWN	3	50.3	11.4 US
UNKNOWN	4	51.9	2.5 US
UNKNOWN	5	100.0	1.5 US
UNKNOWN	10	311.5	125.5 mUS
TOLUENE	11	399.2	30.16 PPB
UNKNOWN	12	533.7	72.9 US
UNKNOWN	13	628.7	633.0 mUS
UNKNOWN	14	704.3	1.1 US

PHOTOVAC

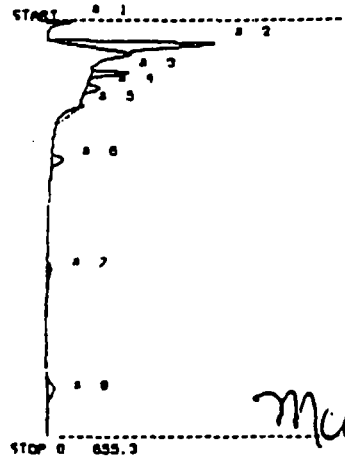


MCB

STOP @ 665.1
SAMPLE LIBRARY 3 APR 16 1994 17:18
ANALYSIS # 10 LOW STD
INTERNAL TEMP 28 AIR
GAIN 50 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	38.8	18.7 US
UNKNOWN	3	54.9	4.1 US
UNKNOWN	4	66.5	1.8 US
UNKNOWN	5	183.9	451.8 uVS
UNKNOWN	7	220.6	559.2 uVS
UNKNOWN	8	484.7	376.9 uVS
UNKNOWN	9	595.3	518.7 uVS

PHOTOVAC

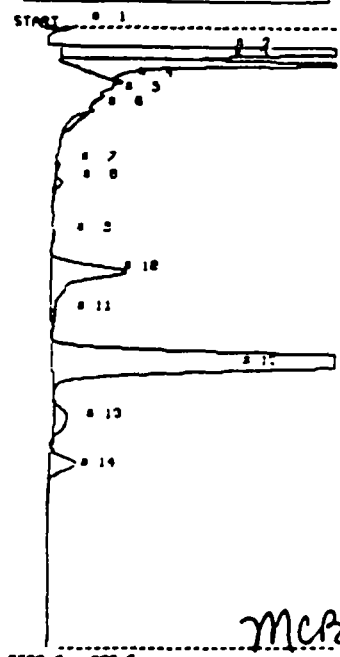


MCB

STOP @ 655.3
SAMPLE LIBRARY 3 APR 16 1994 17:27
ANALYSIS # 11 LOW STD
INTERNAL TEMP 28 AIR
GAIN 50 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	2	38.7	0.000 PPB
T-DCE	3	66.2	12.37 PPB
C-DCE	4	183.9	14.06 PPB
TCE	6	220.8	11.15 PPB
TOLUENE	7	484.7	7.981 PPB
PCE	8	595.3	13.68 PPB

PHOTOVAC



MCB

STOP @ 588.2
SAMPLE LIBRARY 3 APR 16 1994 18:14
ANALYSIS # 13 SB-2
INTERNAL TEMP 28 AIR
GAIN 50 500 UL INJ

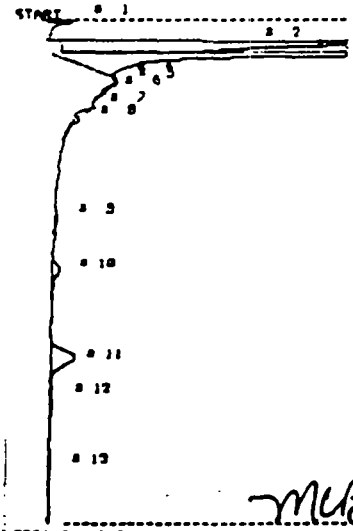
COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	2	38.6	0.000 PPB
UNKNOWN	3	55.4	13.4 US
UNKNOWN	4	92.2	127.9 uVS
UNKNOWN	8	257.7	272.8 uVS
TOLUENE	10	480.3	211.1 PPB
UNKNOWN	11	462.8	232.8 uVS
UNKNOWN	12	536.3	118.3 US
UNKNOWN	13	631.9	1.6 US
UNKNOWN	14	787.9	1.8 US

PHOTOVAC

SAMPLE LIBRARY 3 APR 16 1994 17:14
ANALYSIS # 10 LOW STD
INTERNAL TEMP 28 AIR
GAIN 50 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	2	38.8	0.000 PPB
UNKNOWN	3	54.9	4.1 US
T-DCE	4	66.5	15.00 PPB
C-DCE	5	183.9	16.20 PPB
TCE	7	220.6	13.60 PPB
TOLUENE	8	484.7	11.50 PPB
PCE	9	595.3	12.00 PPB

PHOTOVAC

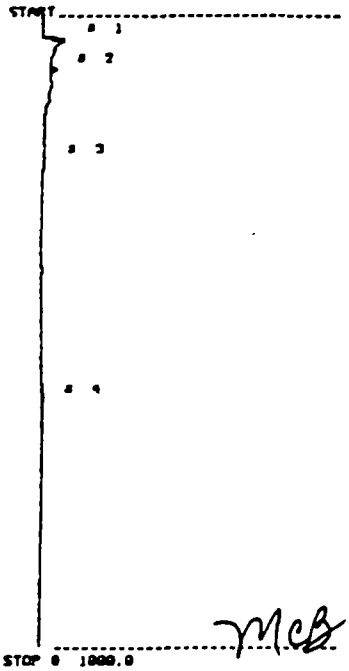


MCB

STOP @ 788.1
SAMPLE LIBRARY 3 APR 16 1994 17:42
ANALYSIS # 12 SB-1
INTERNAL TEMP 28 AIR
GAIN 50 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	2	37.8	0.000 PPB
UNKNOWN	3	55.4	14.4 US
UNKNOWN	5	180.3	123.5 uVS
UNKNOWN	8	159.2	185.0 uVS
TOLUENE	10	481.4	14.40 PPB
UNKNOWN	11	542.5	2.0 US
UNKNOWN	13	787.5	186.5 uVS

PHOTOVAC

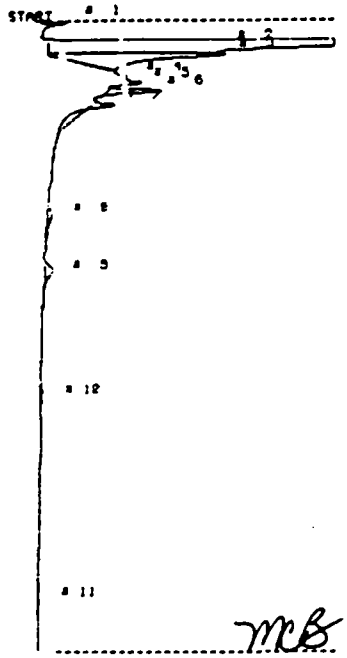


MCB

STOP @ 1000.0
SAMPLE LIBRARY 3 APR 16 1994 14:50
ANALYSIS # 5 LOW STD
INTERNAL TEMP 19 AIR
GAIN 18 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM

PHOTOVAC

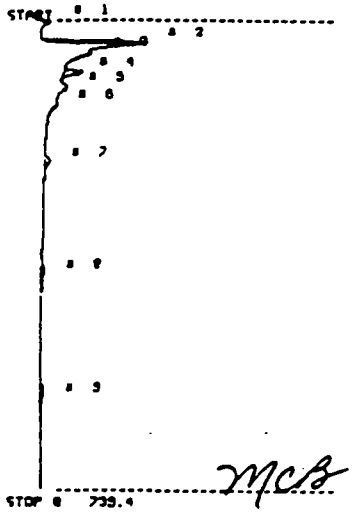


MCB

STOP @ 1000.0
SAMPLE LIBRARY 3 APR 16 1994 16:22
ANALYSIS # 7 ROOM AIR
INTERNAL TEMP 19 AIR
GAIN 50 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	4.1	112.9 pUS
UNKNOWN	2	30.5	44.4 US
UNKNOWN	3	57.3	7.1 US
UNKNOWN	5	103.3	385.1 pUS
UNKNOWN	6	116.0	1.2 US
UNKNOWN	8	310.7	310.1 pUS
UNKNOWN	9	410.2	621.5 pUS
UNKNOWN	10	604.7	185.8 pUS

PHOTOVAC

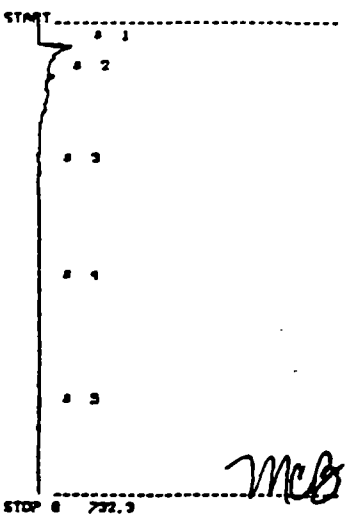


MCB

STOP @ 735.4
SAMPLE LIBRARY 3 APR 16 1994 16:54
ANALYSIS # 9 LOW STD
INTERNAL TEMP 20 AIR
GAIN 20 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	30.4	372.0 pUS
UNKNOWN	4	87.1	427.5 pUS
UNKNOWN	7	238.4	155.3 pUS
UNKNOWN	8	400.0	114.6 pUS
UNKNOWN	9	555.3	217.3 pUS

PHOTOVAC

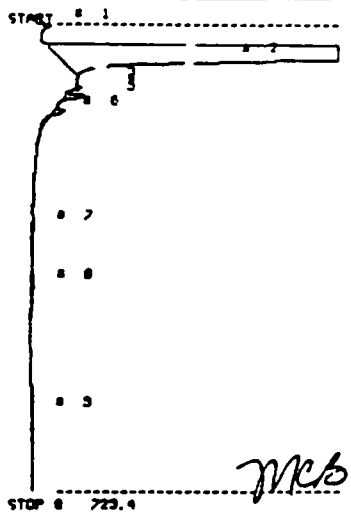


MCB

STOP @ 732.3
SAMPLE LIBRARY 3 APR 16 1994 16:4
ANALYSIS # 6 LOW STD
INTERNAL TEMP 19 AIR
GAIN 18 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	30.4	183.5 pUS

PHOTOVAC

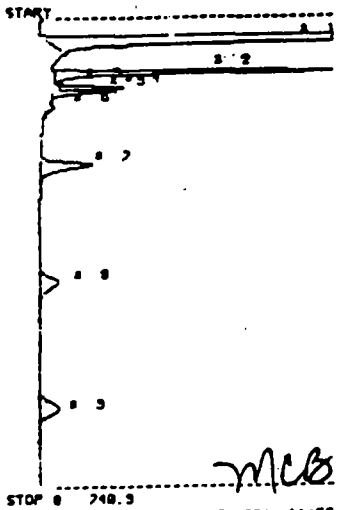


MCB

STOP @ 723.4
SAMPLE LIBRARY 3 APR 16 1994 16:38
ANALYSIS # 8 ROOM AIR
INTERNAL TEMP 20 AIR
GAIN 20 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	44.5	125.1 US
UNKNOWN	4	103.0	113.4 pUS
UNKNOWN	5	116.5	427.5 pUS
UNKNOWN	8	405.1	156.1 pUS
UNKNOWN	9	604.7	180.8 pUS

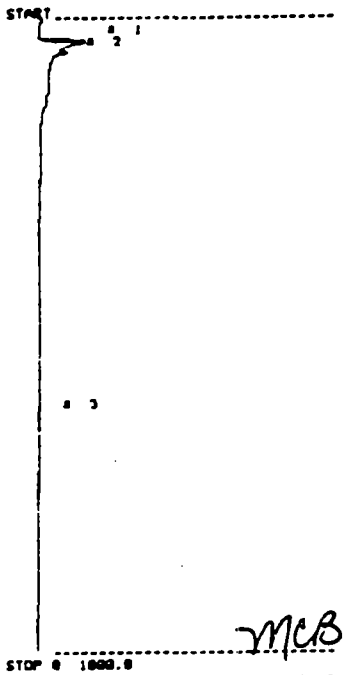
PHOTOVAC



STOP @ 740.3
SAMPLE LIBRARY 2 APR 16 1994 11:56
ANALYSIS # 1 LOW STD
INTERNAL TEMP 10 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.4	0.000 PPB
UNKNOWN	2	89.4	5.3 US
C-DCE	3	107.2	1.989 PPB
UNKNOWN	4	114.7	1.2 US
UNKNOWN	5	121.2	1.2 US
UNKNOWN	7	240.9	2.1 US
UNKNOWN	8	428.9	1.2 US
UNKNOWN	9	630.3	1.4 US

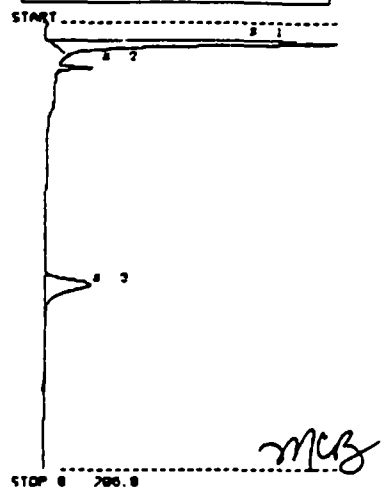
PHOTOVAC



STOP @ 1000.0
SAMPLE LIBRARY 2 APR 16 1994 12:16
ANALYSIS # 2 VSS-1
INTERNAL TEMP 19 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	38.6	0.000 PPB
UNKNOWN	2	57.7	105.6 mVS

PHOTOVAC



STOP @ 700.0
SAMPLE LIBRARY 2 APR 16 1994 12:43
ANALYSIS # 4 VSS-2
INTERNAL TEMP 19 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.3	5.5 US
UNKNOWN	2	75.1	434.9 mVS
TOLUENE	3	425.6	92.00 PPB

PHOTOVAC

3 COMPOUND ID # R.T. LIMIT

PCE 32..4 1000. PPM

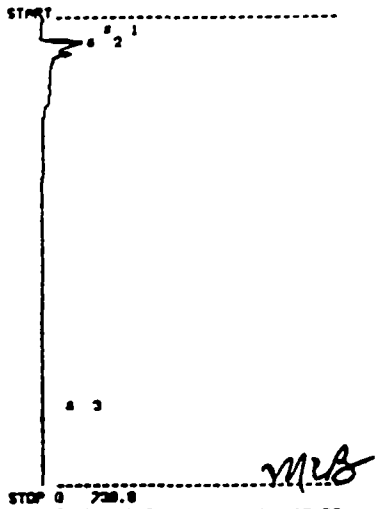
PHOTOVAC

CALIBRATED PEAK 7,TCE

SAMPLE LIBRARY 2 APR 16 1994 11:57
ANALYSIS # 1 LOW STD
INTERNAL TEMP 10 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.4	0.000 PPB
T-DCE	2	89.4	13.13 PPB
UNKNOWN	3	107.2	143.7 mVS
C-DCE	4	114.7	17.06 PPB
~~C-DCE~~	~~5~~	~~[illegible]~~	~~[illegible] PPB~~ MCB
TCE	7	240.9	13.96 PPB
TOLUENE	8	428.9	13.74 PPB
PCE	9	630.3	11.54 PPB

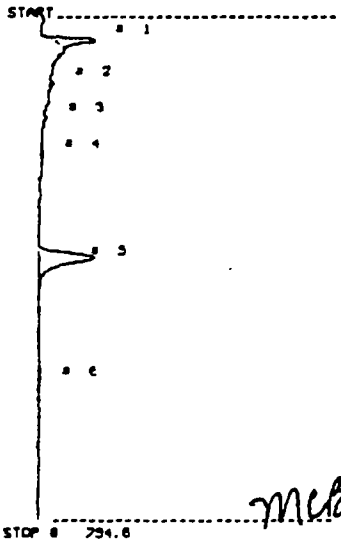
PHOTOVAC



STOP @ 730.0
SAMPLE LIBRARY 2 APR 16 1994 12:30
ANALYSIS # 3 VSS-2
INTERNAL TEMP 19 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	38.6	0.000 PPB
UNKNOWN	2	57.5	141.0 mVS

PHOTOVAC

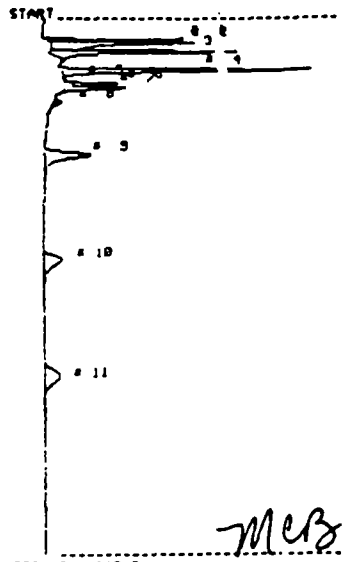


MCB

STOP @ 794.6
SAMPLE LIBRARY 1 APR 15 1994 16:47
ANALYSIS # 27 HP-20-10B
INTERNAL TEMP 20 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	40.1	1.2 US
TOLUENE	5	352.2	11.45 PPB

PHOTOVAC



MCB

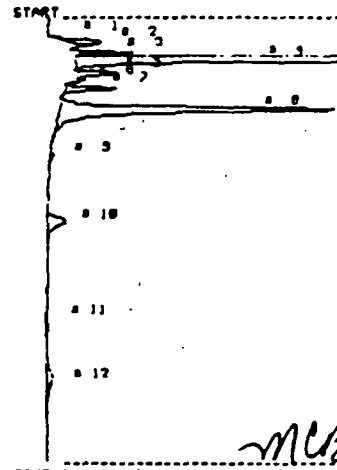
STOP @ 848.3
SAMPLE LIBRARY 1 APR 15 1994 17:55
ANALYSIS # 29 LOW STD
INTERNAL TEMP 20 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	36.1	1.3 US
UNKNOWN	2	40.3	3.3 US
UNKNOWN	3	55.5	2.7 US
T-DCE	4	65.8	8.951 PPB
C-DCE	6	100.1	7.154 PPB
UNKNOWN	7	113.8	363.8 mUS
UNKNOWN	8	138.8	178.5 mUS
TCE	9	223.8	5.264 PPB
TOLUENE	10	355.2	3.725 PPB
PCE	11	501.8	5.416 PPB

PHOTOVAC

#	COMPOUND	ID #	R.T.	LIMIT
INJ		1	34.6	1000. PPB
T-DCE		2	65.3	1000. PPB
C-DCE		3	100.4	1000. PPB
TCE		4	223.8	1000. PPB
TOLUENE		5	357.3	1000. PPB
PCE		6	502.2	1000. PPB

PHOTOVAC

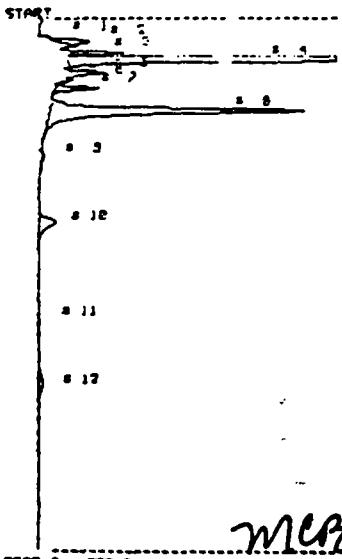


MCB

STOP @ 781.8
SAMPLE LIBRARY 1 APR 15 1994 18:18
ANALYSIS # 30 HP-19-10
INTERNAL TEMP 20 REANALYSIS
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	40.3	514.5 mUS
UNKNOWN	3	57.7	773.7 mUS
UNKNOWN	4	66.2	19.8 US
UNKNOWN	5	69.8	724.8 mUS
UNKNOWN	7	114.1	864.1 mUS
UNKNOWN	8	140.4	3.2 US
UNKNOWN	10	328.6	368.9 mUS
PCE	12	503.3	1.868 PPB

PHOTOVAC



MCB

STOP @ 828.3
SAMPLE LIBRARY 1 APR 15 1994 17:39
ANALYSIS # 28 HP-18-10
INTERNAL TEMP 20 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	40.1	511.8 mUS
UNKNOWN	3	57.7	770.6 mUS
UNKNOWN	4	65.9	18.9 US
UNKNOWN	5	69.8	673.2 mU
UNKNOWN	7	113.8	716.5 mUS
UNKNOWN	8	140.4	8.3 US
UNKNOWN	10	329.6	670.3 mUS
PCE	12	504.8	1.688 PPB

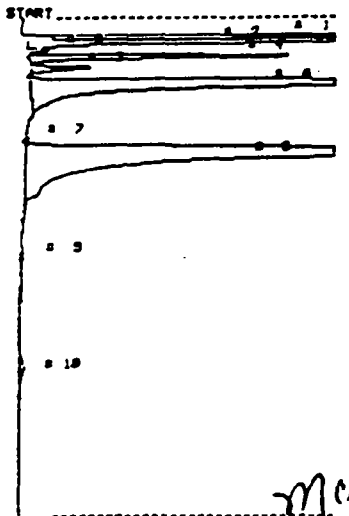
PHOTOVAC

CALIBRATED PEAK 5.TCE

SAMPLE LIBRARY 1 APR 15 1994 17:55
ANALYSIS # 29 LOW STD
INTERNAL TEMP 20 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.1	8.000 PPB
UNKNOWN	2	40.3	3.3 US
UNKNOWN	3	55.5	2.7 US
T-DCE	4	65.8	8.350 PPB
C-DCE	6	100.1	7.150 PPB
UNKNOWN	7	113.8	363.8 mUS
UNKNOWN	8	138.8	178.5 mUS
TCE	9	223.8	5.264 PPB
TOLUENE	10	355.2	3.725 PPB
PCE	11	501.8	5.416 PPB

PHOTOVAC



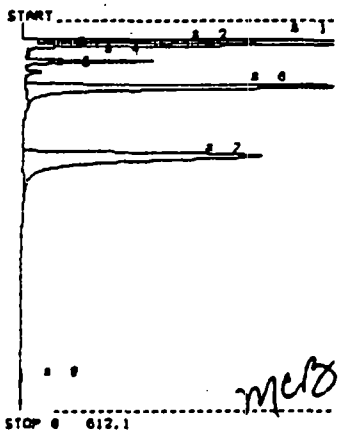
MCB

STOP @ 700.2
SAMPLE LIBRARY 1 APR 15 1994 15:28
ANALYSIS # 23 MP-18-18
INTERNAL TEMP 21 REANALYSIS
GAIN 2 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
INJ	1	32.6	8.888	PPB
UNKNOWN	2	49.2	18.6	US
UNKNOWN	3	54.9	330.3	mUS
UNKNOWN	4	65.3	4.4	US
T-DCE	5	84.1	12.01	PPB
C-DCE	6	107.4	2.378	PPM OS
TCE	8	215.7	1.322	PPM OS
PCE	10	369.3	8.108	PPB

OS - offscale - use reanalysis results

PHOTOVAC



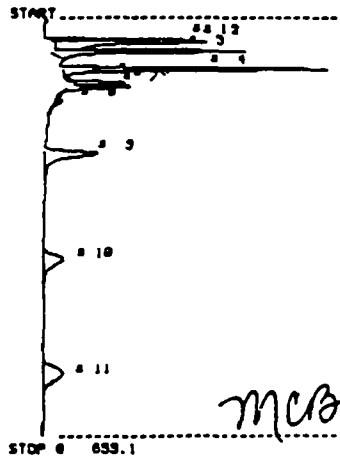
MCB

STOP @ 612.1
SAMPLE LIBRARY 1 APR 15 1994 15:48
ANALYSIS # 25 MP-18-18
INTERNAL TEMP 21 REANALYSIS
GAIN 2 50 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	31.7	2.7	US
UNKNOWN	2	33.8	3.5	US
UNKNOWN	4	65.3	1.2	US
T-DCE	5	84.1	2.034	PPB
C-DCE	6	106.8	529.7	PPB ←
TCE	7	220.8	186.6	PPB ←

x 5

PHOTOVAC

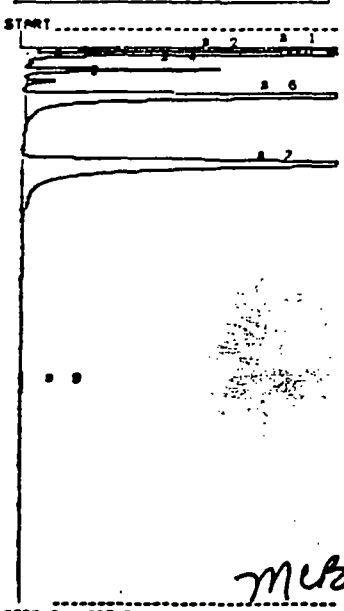


MCB

STOP @ 659.1
SAMPLE LIBRARY 1 APR 15 1994 16:31
ANALYSIS # 28 LOW STD
INTERNAL TEMP 28 WATER
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	35.9	1.3	US
UNKNOWN	2	40.1	3.4	US
UNKNOWN	3	55.1	2.8	US
T-DCE	4	84.4	3.588	PPB
C-DCE	6	107.2	7.887	PPB
UNKNOWN	7	112.9	558.1	mUS
UNKNOWN	8	137.2	181.1	mUS
TCE	9	221.4	5.941	PPB
TOLUENE	10	351.2	4.150	PPB
PCE	11	574.3	8.773	PPB

PHOTOVAC



MCB

STOP @ 937.5
SAMPLE LIBRARY 1 APR 15 1994 15:37
ANALYSIS # 24 MP-18-18
INTERNAL TEMP 21 REANALYSIS
GAIN 2 100 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	32.8	5.1	US
UNKNOWN	2	49.8	8.3	US
UNKNOWN	4	65.1	2.2	US
T-DCE	5	83.8	4.648	PPB
C-DCE	6	106.3	1.881	PPM OS
TCE	7	219.4	447.4	PPB OS
PCE	8	368.3	2.583	PPB

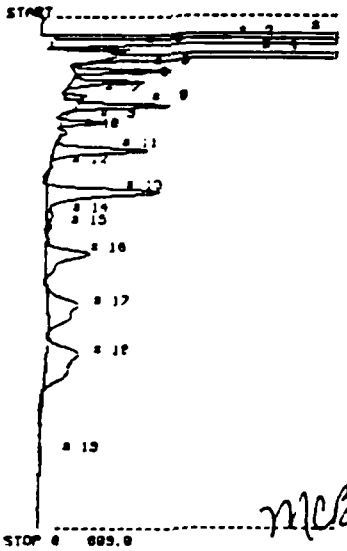
PHOTOVAC

CALIBRATED PEAK 5,TCE

SAMPLE LIBRARY 1 APR 15 1994 16:32
ANALYSIS # 28 LOW STD
INTERNAL TEMP 28 WATER
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
INJ	1	35.9	8.888	PPB
UNKNOWN	2	40.1	3.4	US
UNKNOWN	3	55.1	2.8	US
T-DCE	4	84.4	3.588	PPB
C-DCE	6	107.2	7.887	PPB
UNKNOWN	7	112.9	558.1	mUS
UNKNOWN	8	137.2	181.1	mUS
TCE	9	221.4	5.941	PPB
TOLUENE	10	351.2	4.150	PPB
PCE	11	574.3	8.773	PPB

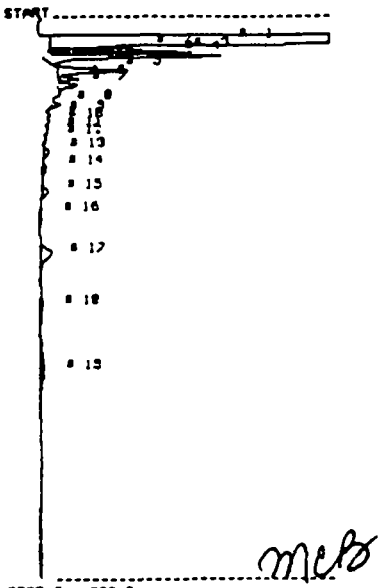
PHOTOVAC



STOP @ 889.0
SAMPLE LIBRARY 1 APR 15 1994 14:14
ANALYSIS # 19 MP-11-15
INTERNAL TEMP 21 BW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	33.4	0.888 PPB
UNKNOWN	2	42.0	12.3 US
UNKNOWN	3	53.3	688.5 mVS
UNKNOWN	4	65.1	12.2 US
UNKNOWN	5	88.9	1.8 US
C-DCE	6	108.6	13.44 PPB
UNKNOWN	7	130.4	445.0 mVS
UNKNOWN	8	140.0	2.1 US
UNKNOWN	9	174.2	1.0 US
UNKNOWN	10	191.2	211.4 mVS
TCE	11	220.2	9.730 PPB
UNKNOWN	13	288.3	5.5 US
UNKNOWN	14	324.1	584.5 mVS
UNKNOWN	15	343.0	186.0 mVS
TOLUENE	16	387.2	9.387 PPB
UNKNOWN	17	470.0	3.7 US
PCE	18	548.1	18.70 PPB

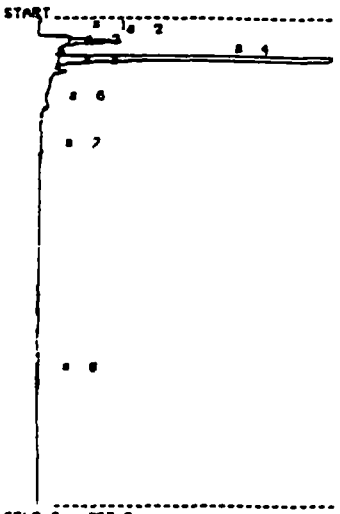
PHOTOVAC



STOP @ 889.3
SAMPLE LIBRARY 1 APR 15 1994 14:31
ANALYSIS # 20 MP-11-25
INTERNAL TEMP 21 BW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	38.3	53.2 US
UNKNOWN	2	54.7	1.1 US
UNKNOWN	3	63.1	2.6 US
UNKNOWN	4	65.1	2.8 US
UNKNOWN	5	88.3	1.6 US
C-DCE	6	102.7	4.163 PPB
UNKNOWN	7	112.5	425.0 mVS
UNKNOWN	8	144.0	153.4 mVS
TCE	13	220.0	0.523 PPB
UNKNOWN	14	247.5	155.4 mVS
UNKNOWN	15	285.5	253.2 mVS
TOLUENE	17	386.2	2.442 PPB
UNKNOWN	18	468.0	122.0 mVS
PCE	19	565.0	2.267 PPB

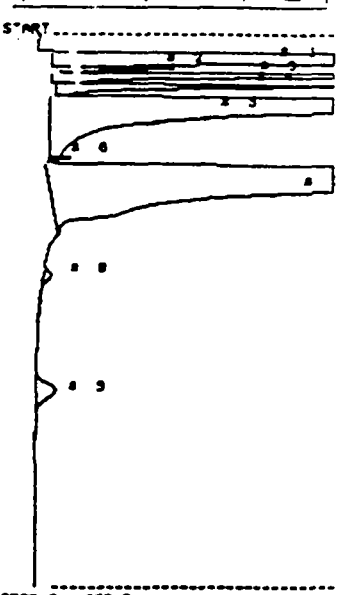
PHOTOVAC



STOP @ 767.3
SAMPLE LIBRARY 1 APR 15 1994 14:48
ANALYSIS # 21 MP-17-18
INTERNAL TEMP 21 BW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	48.1	313.0 mVS
UNKNOWN	4	64.0	11.6 US
UNKNOWN	5	88.0	159.5 mVS

PHOTOVAC

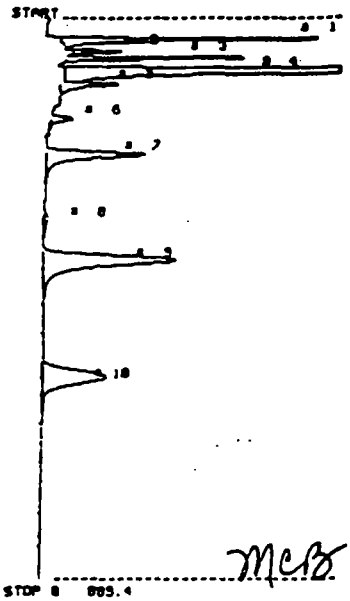


STOP @ 838.7
SAMPLE LIBRARY 1 APR 15 1994 15:5
ANALYSIS # 22 MP-18-18
INTERNAL TEMP 21 BW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	37.9	65.0 US
UNKNOWN	2	54.7	2.2 US
UNKNOWN	3	65.3	17.3 US
T-DCE	4	83.0	10.25 PPB
UNKNOWN	5	112.7	120.4 US
UNKNOWN	6	137.7	370.0 mVS
TCE	7	220.0	636.0 PPB OS
TOLUENE	8	385.2	0.928 PPB
PCE	9	500.0	0.885 PPB

OS- offscale, use reruns.

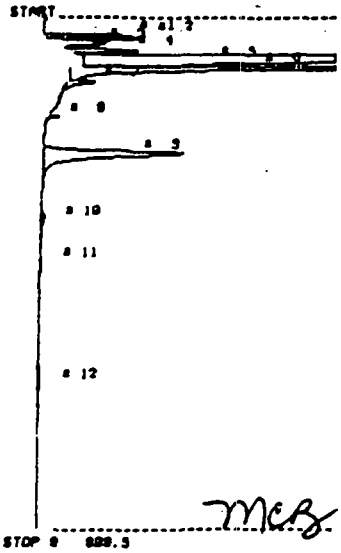
PHOTOVAC



STOP @ 885.4
SAMPLE LIBRARY 2 APR 15 1994 13:10
ANALYSIS # 15 HP-10-15
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.9	0.000 PPB
UNKNOWN	2	55.5	624.7 mVS
UNKNOWN	3	66.1	2.1 VS
T-DCE	4	85.1	74.45 PPB
C-DCE	5	100.1	20.12 PPB
UNKNOWN	6	168.2	530.5 mVS
TCE	7	223.8	23.71 PPB
UNKNOWN	8	320.6	162.0 mVS
TOLUENE	9	355.2	88.89 PPB
PCE	10	580.3	40.97 PPB

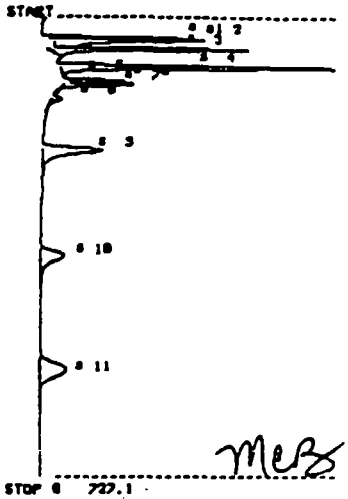
PHOTOVAC



STOP @ 888.5
SAMPLE LIBRARY 2 APR 15 1994 13:27
ANALYSIS # 16 HP-16-25
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.2	770.7 mVS
INJ	2	35.2	0.000 PPB
UNKNOWN	4	56.7	1.1 VS
UNKNOWN	5	67.7	29.1 VS
T-DCE	6	83.2	25.62 PPB
C-DCE	7	107.2	8.683 PPB
TCE	9	222.8	34.49 PPB
UNKNOWN	10	325.9	103.1 mVS
PCE	12	581.0	1.181 PPB

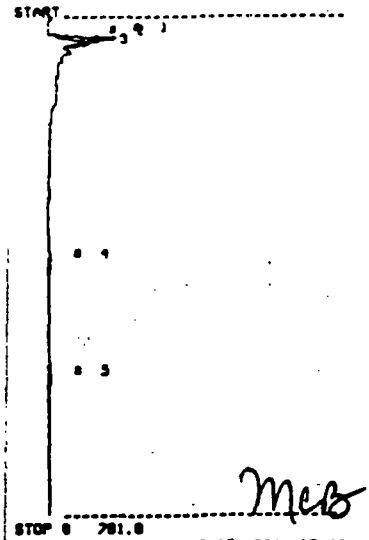
PHOTOVAC



STOP @ 727.1
SAMPLE LIBRARY 1 APR 15 1994 13:57
ANALYSIS # 10 LOW STD
INTERNAL TEMP 21 WATER
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.9	0.000 PPB
UNKNOWN	2	39.9	3.3 VS
UNKNOWN	3	55.1	2.8 VS
UNKNOWN	4	84.0	4.6 VS
UNKNOWN	6	108.9	865.0 mVS
C-DCE	7	112.6	10.11 PPB
UNKNOWN	8	130.8	183.4 mVS
UNKNOWN	9	220.8	2.1 VS
UNKNOWN	10	389.2	1.4 VS
UNKNOWN	11	571.3	2.1 VS

PHOTOVAC



STOP @ 781.8
SAMPLE LIBRARY 2 APR 15 1994 13:44
ANALYSIS # 17 HP-11-25
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.7	0.000 PPB

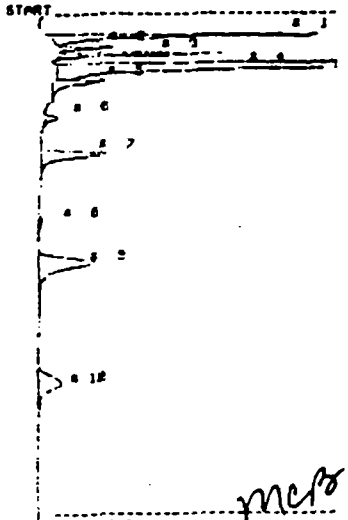
PHOTOVAC

CALIBRATED PEAK 9,TCE

SAMPLE LIBRARY 1 APR 15 1994 13:50
ANALYSIS # 10 LOW STD
INTERNAL TEMP 21 WATER
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	35.9	1.2 VS
UNKNOWN	2	39.9	3.3 VS
UNKNOWN	3	55.1	2.8 VS
T-DCE	4	84.0	10.33 PPB
C-DCE	6	108.9	7.596 PPB
UNKNOWN	7	112.6	1.1 VS
UNKNOWN	8	130.8	183.4 mVS
TCE	9	220.8	6.539 PPB
TOLUENE	10	389.2	4.818 PPB
PCE	11	571.3	8.971 PPB

PHOTOVAC



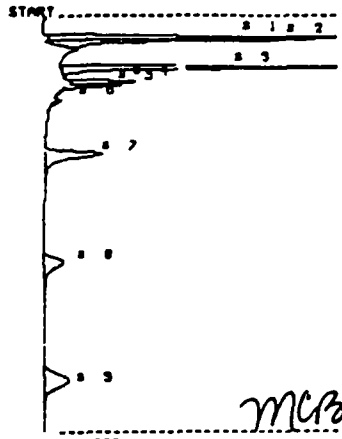
MCB

STOP @ 827.7
SAMPLE LIBRARY 2 APR 13 1994 11:30
ANALYSIS # 12 MW-16-15
INTERNAL TEMP 28 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.1	0.000 PPB
UNKNOWN	2	36.1	582.3 mVS
UNKNOWN	3	47.1	1.9 VS
T-DCE	4	86.4	3.777 PPB
C-DCE	5	110.3	0.819 PPB
UNKNOWN	6	165.7	410.4 mVS
TCE	7	229.2	2.746 PPB
UNKNOWN	8	397.6	125.0 mVS
TOLUENE	9	4[illegible]	1.705 PPB
PCE	10	5[illegible]	0.263 PPB

MCB

PHOTOVAC

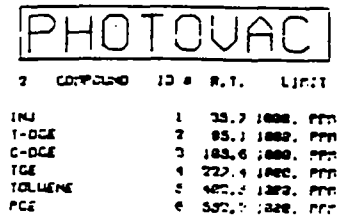


MCB

STOP @ 653.1
SAMPLE LIBRARY 2 APR 13 1994 11:46
ANALYSIS # 13 LOW STD
INTERNAL TEMP 28 SOIL
GAIN 10 250 UL INJ

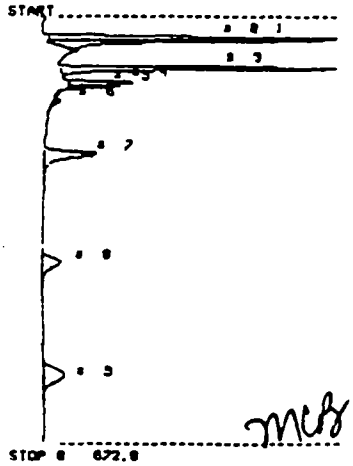
COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.7	0.000 PPB
UNKNOWN	2	40.3	4.1 VS
T-DCE	3	85.1	0.794 PPB
C-DCE	4	103.6	0.754 PPB
C-DCE	5	115.0	0.566 PPB
UNKNOWN	6	140.0	112.0 mVS
TCE	7	227.4	0.633 PPB
TOLUENE	8	402.5	0.593 PPB
PCE	9	592.3	0.053 PPB

PHOTOVAC



	COMPOUND	ID #	R.T.	LIMIT
INJ		1	35.7	1000. PPB
T-DCE		2	85.1	1000. PPB
C-DCE		3	103.6	1000. PPB
TCE		4	227.4	1000. PPB
TOLUENE		5	402.5	1000. PPB
PCE		6	592.3	1000. PPB

PHOTOVAC



MCB

STOP @ 672.8
SAMPLE LIBRARY 2 APR 13 1994 12:51
ANALYSIS # 14 LOW STD
INTERNAL TEMP 28 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.6	0.000 PPB
UNKNOWN	2	39.9	4.2 VS
T-DCE	3	84.2	14.53 PPB
C-DCE	4	108.1	15.51 PPB
C-DCE	5	113.0	10.06 PPB
UNKNOWN	6	138.0	138.0 mVS
TCE	7	223.0	12.24 PPB
TOLUENE	8	395.2	11.75 PPB
PCE	9	581.0	13.07 PPB

PHOTOVAC

SAMPLE LIBRARY 2 APR 13 1994 12:36
ANALYSIS # 13 LOW STD
INTERNAL TEMP 28 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.7	0.000 PPB
UNKNOWN	2	40.3	4.1 VS
T-DCE	3	85.1	1.571 PPB
C-DCE	4	103.6	16.85 PPB
C-DCE	5	115.0	12.05 PPB
UNKNOWN	6	140.0	112.0 mVS
TCE	7	227.4	13.73 PPB
TOLUENE	8	402.5	13.55 PPB
PCE	9	592.3	15.21 PPB

MCB

PHOTOVAC

SAMPLE LIBRARY 2 APR 13 1994 12:38
ANALYSIS # 13 LOW STD
INTERNAL TEMP 28 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.7	0.000 PPB
UNKNOWN	2	40.3	4.1 VS
T-DCE	3	85.1	15.71 PPB
C-DCE	4	103.6	16.85 PPB
~~C-DCE~~	~~5~~	~~115.0~~	~~13.06 PPB~~ MCB
UNKNOWN	6	140.0	112.0 mVS
TCE	7	227.4	13.73 PPB
TOLUENE	8	402.5	13.55 PPB
PCE	9	592.3	15.21 PPB

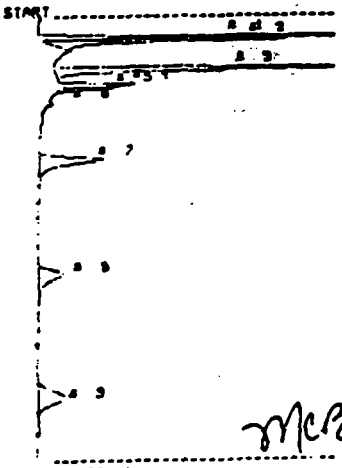
PHOTOVAC

CALIBRATED PEAK 7.TCE

SAMPLE LIBRARY 2 APR 13 1994 12:54
ANALYSIS # 14 LOW STD
INTERNAL TEMP 28 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.6	0.000 PPB
UNKNOWN	2	39.9	4.2 VS
T-DCE	3	84.2	14.53 PPB
C-DCE	4	108.1	15.51 PPB
UNKNOWN	5	113.0	765.0 mVS
UNKNOWN	6	138.0	138.0 mVS
TCE	7	223.0	12.24 PPB
TOLUENE	8	395.2	11.75 PPB
PCE	9	581.0	13.07 PPB

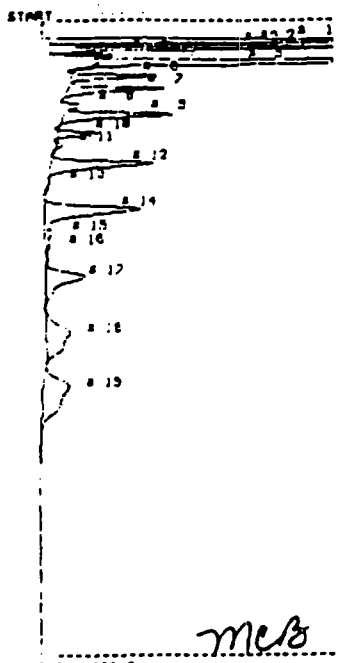
PHOTOVAC



STOP # 701.6
SAMPLE LIBRARY 2 APR 15 1994 10:26
ANALYSIS # 9 LOW STD
INTERNAL TEMP 19 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.1	0.000 PPB
UNKNOWN	2	41.1	3.8 US
T-DCE	3	87.2	15.65 PPB
C-DCE	4	112.9	15.00 PPB
~~C-DCE~~	~~5~~	~~[illegible]~~	~~[illegible]~~ MCB
TCE	7	235.8	13.12 PPB
TOLUENE	8	412.0	12.38 PPB
PCE	9	615.9	19.31 PPB

PHOTOVAC

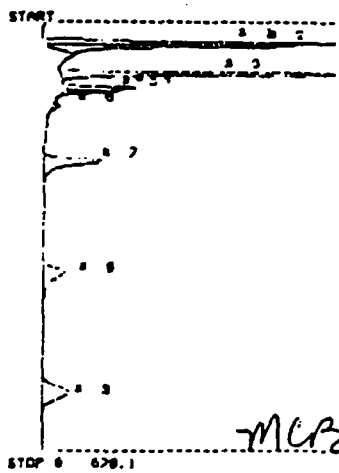


STOP # 1000.0
SAMPLE LIBRARY 2 APR 15 1994 10:48
ANALYSIS # 10 HP. 11 - 15
INTERNAL TEMP 20 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	33.8	3.2 US
UNKNOWN	2	42.9	3.5 US
UNKNOWN	3	46.4	4.2 US
UNKNOWN	4	57.7	426.2 µUS
UNKNOWN	5	68.1	13.5 US
UNKNOWN	6	83.[illegible]	1.7 US
C-DCE	7	112.8	22.01 PPB
UNKNOWN	8	138.8	577.1 µUS
UNKNOWN	9	52.2	3.2 US
UNKNOWN	10	55.2	1.0 US
UNKNOWN	11	204.8	155.0 µUS
TCE	12	234.8	20.01 PPB
UNKNOWN	14	308.3	5.0 US
UNKNOWN	15	346.6	45[illegible] µUS
UNKNOWN	16	368.2	142.[illegible] µUS
TOLUENE	17	416.8	22.53 PPB
UNKNOWN	18	507.0	3.2 US
UNKNOWN	19	550.8	3.5 US

MCB

PHOTOVAC



STOP # 670.1
SAMPLE LIBRARY 2 APR 15 1994 11:12
ANALYSIS # 11 LOW STD
INTERNAL TEMP 20 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.9	0.022 PPB
UNKNOWN	2	40.7	3.8 US
T-DCE	3	86.2	13.93 PPB
C-DCE	4	110.8	13.57 PPB
~~C-DCE~~	~~5~~	~~[illegible]~~	~~[illegible]~~ MCB
TCE	7	231.0	11.76 PPB
TOLUENE	8	410.2	10.97 PPB
PCE	9	603.1	14.85 PPB

PHOTOVAC

CALIBRATED PEAK 7,TCE

~~SAMPLE LIBRARY 2 APR 15 1994 11:14~~
~~ANALYSIS # 11 LOW STD~~
~~INTERNAL TEMP 20 SOIL~~
~~GAIN 10 250 UL INJ~~

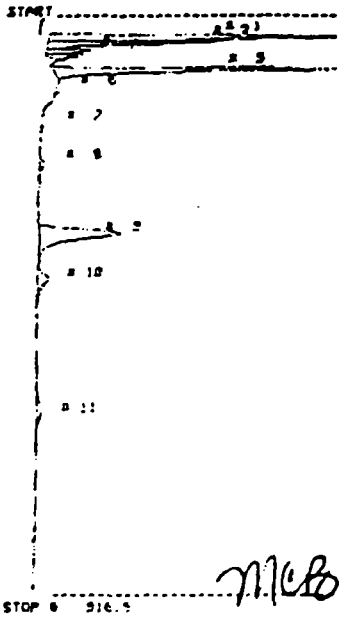
COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.9	0.000 PPB
UNKNOWN	2	40.7	3.8 US
T-DCE	3	86.2	0.825 PPB
C-DCE	4	110.8	0.807 PPB
~~C-DCE~~	~~5~~	~~[illegible]~~	~~[illegible]~~ MCB
TCE	7	231.0	0.700 PPB
TOLUENE	8	410.2	0.653 PPB
PCE	9	603.1	0.886 PPB

MCB

PHOTOVAC

2 COMPOUND	ID #	R.T.	LIMIT
INJ	1	35.9	1000. PPM
T-DCE	2	85.4	1000. PPM
C-DCE	3	110.4	1000. PPM
TCE	4	231.0	1000. PPM
TOLUENE	5	411.7	1000. PPM
PCE	6	605.8	1000. PPM

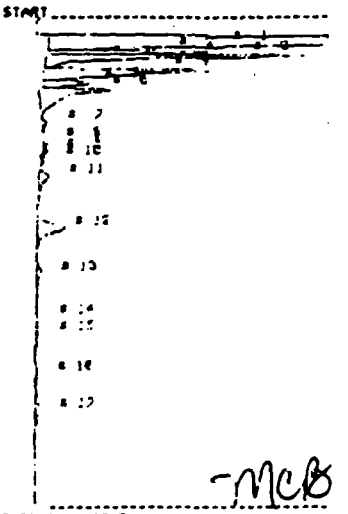
PHOTOVAC



STOP 0 916.5
SAMPLE LIBRARY [illegible] APR [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.0	0.000 PPB
UNKNOWN	2	43.7	3.8 US
UNKNOWN	3	57.7	783.7 pUS
UNKNOWN	4	64.3	559.6 pUS
T-DCE	5	[illegible]	[illegible] PPB
TCE	6	241.6	0.582 PPB
UNKNOWN	9	355.6	4.7 US
TOLUENE	10	427.8	2.339 PPB
PCE	11	640.0	[illegible] PPB

PHOTOVAC



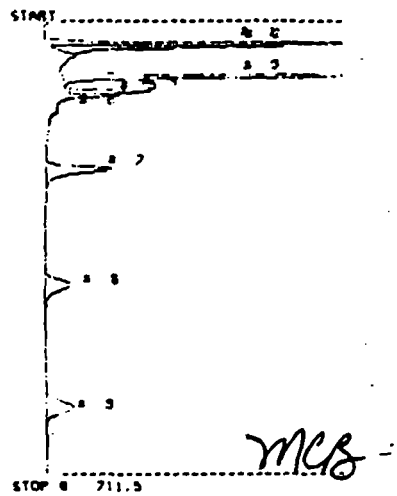
STOP 0 782.5
SAMPLE LIBRARY [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	38.9	46.1 US
UNKNOWN	2	57.5	2.4 US
UNKNOWN	3	64.5	6.6 US
T-DCE	4	89.5	[illegible] PPB
UNKNOWN	5	28.7	1.5 US
C-DCE	6	121.6	26.43 PPB
UNKNOWN	7	175.7	136.9 pUS
UNKNOWN	8	205.2	122.5 pUS
TCE	10	242.3	0.414 PPB
UNKNOWN	11	271.7	434.3 pUS
UNKNOWN	12	355.5	1.5 US
TOLUENE	13	424.5	0.815 PPB
PCE	17	642.0	1.420 PPB

PHOTOVAC

2 COMPOUND	ID #	R.T.	LIMIT
INJECTION	1	22.9	1000. PPM
PCE	2	322.2	1000. PPM

PHOTOVAC



STOP 0 711.5
SAMPLE LIBRARY [illegible]
ANALYSIS # 8 [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	36.4	4.1 US
UNKNOWN	2	41.7	3.7 US
UNKNOWN	3	88.1	6.4 US
UNKNOWN	4	113.8	1.4 US
UNKNOWN	5	113.6	882.1 pUS
UNKNOWN	7	238.2	2.6 US
UNKNOWN	8	424.5	1.8 US
UNKNOWN	9	623.9	2.0 US

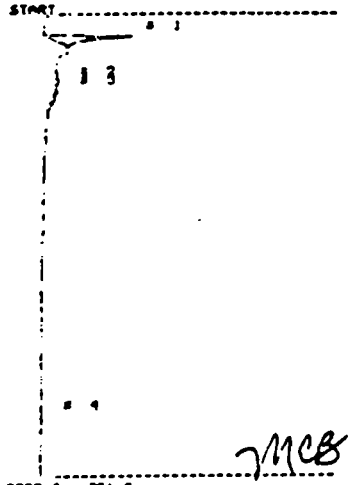
PHOTOVAC

SAMPLE LIBRARY 2 APR 15 1994 10:11
ANALYSIS # 8 LOW STD
INTERNAL TEMP 19 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.4	0.000 PPB
UNKNOWN	2	41.7	3.7 US
T-DCE	3	88.1	15.71 PPB
C-DCE	4	113.8	16.85 PPB
~~C-DCE~~	~~5~~	~~[illegible]~~	~~[illegible] PPB~~ MCB
TCE	7	238.2	13.73 PPB
TOLUENE	8	424.5	13.55 PPB
PCE	9	623.9	15.21 PPB

PHOTOVAC

START



MCB

STOP @ 731.0

SAMPLE DIRECTORY : [illegible]

ANALYSIS # [illegible] ALCO PIR

INTERNAL TEMP [illegible]

GAIN [illegible] 250 UL IN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	37.9	1.5 US

PHOTOVAC

CALIBRATED PEAK 5.TCE

SAMPLE DIRECTORY : [illegible]

ANALYSIS # [illegible]

INTERNAL TEMP [illegible] WATER

GAIN [illegible]

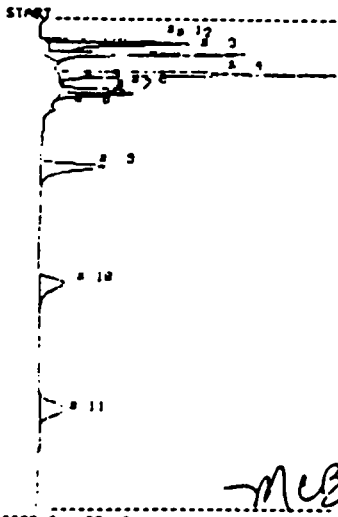
COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	37.4	0.000 PPB
UNKNOWN	2	42.7	3.2 US
UNKNOWN	3	58.5	3.0 US
T-DCE	4	90.7	17.03 PPB
C-DCE	6	115.5	0.765 PPB
UNKNOWN	7	123.6	1.2 US
TCE	9	245.1	0.050 PPB
TOLUENE	10	455.5	5.674 PPB
PCE	11	636.7	7.285 PPB

PHOTOVAC

#	COMPOUND	ID #	R.T.	LIMIT
	INJ	1	37.4	1000. PPM
	T-DCE	2	91.7	1000. PPM
	C-DCE	3	115.6	1000. PPM
	TCE	4	245.1	1000. PPM
	TOLUENE	5	455.5	1000. PPM
	PCE	6	637.6	1000. PPM

PHOTOVAC

START



MCB

STOP @ 774.0

SAMPLE DIRECTORY : [illegible]

ANALYSIS # [illegible] ALCO PIR

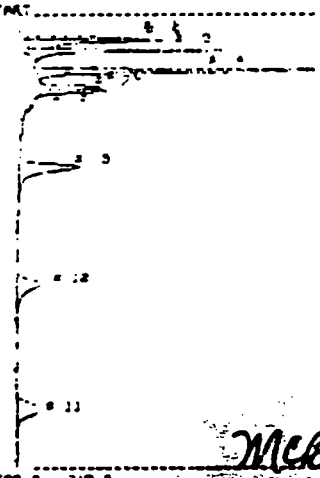
INTERNAL TEMP [illegible] WATER

GAIN [illegible] 250 UL IN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	37.3	0.000 PPB
UNKNOWN	2	42.3	3.3 US
UNKNOWN	3	58.1	3.0 US
T-DCE	4	90.0	12.21 PPB
C-DCE	6	115.6	0.561 PPB
UNKNOWN	7	122.8	1.4 US
TCE	9	245.0	0.117 PPB
TOLUENE	10	451.1	5.243 PPB
PCE	11	631.5	0.185 PPB

PHOTOVAC

START



MCB

STOP @ 712.5

SAMPLE DIRECTORY : [illegible]

ANALYSIS # [illegible] ALCO PIR

INTERNAL TEMP [illegible] WATER

GAIN [illegible] 250 UL IN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	37.4	1.1 US
UNKNOWN	2	42.7	3.2 US
UNKNOWN	3	58.5	3.0 US
UNKNOWN	4	90.7	3.4 US
UNKNOWN	6	116.5	1.0 US
UNKNOWN	7	123.6	1.2 US
UNKNOWN	9	245.1	2.6 US
UNKNOWN	10	455.5	1.6 US
UNKNOWN	11	636.7	1.0 US

PHOTOVAC

CALIBRATED PEAK 5.TCE

SAMPLE DIRECTORY : [illegible]

ANALYSIS # [illegible] ALCO PIR

INTERNAL TEMP [illegible] WATER

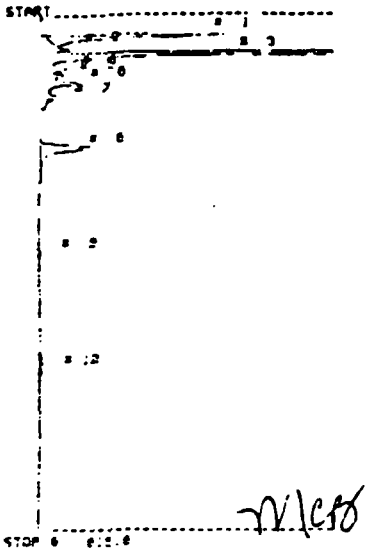
GAIN [illegible] 250 UL IN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	37.3	0.000 PPB
UNKNOWN	2	42.3	3.3 US
UNKNOWN	3	58.1	3.0 US
T-DCE	4	90.0	12.21 PPB
C-DCE	6	115.6	0.561 PPB
UNKNOWN	7	122.8	1.4 US
TCE	9	245.0	0.117 PPB
TOLUENE	10	451.1	5.243 PPB
PCE	11	631.5	0.185 PPB

PHOTOVAC

#	COMPOUND	ID #	R.T.	LIMIT
	INJ	1	37.3	1000. PPM
	T-DCE	2	90.5	1000. PPM
	C-DCE	3	115.6	1000. PPM
	TCE	4	245.0	1000. PPM
	TOLUENE	5	451.3	1000. PPM
	PCE	6	632.1	1000. PPM

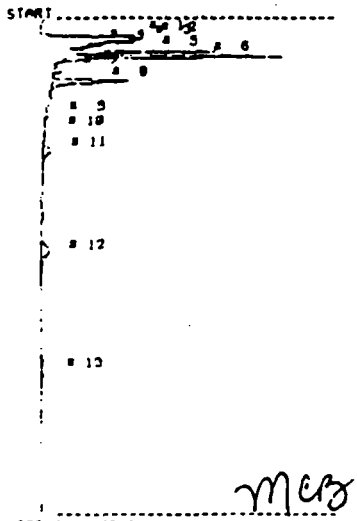
PHOTOVAC



STOP 0 [illegible]
SAMPLE LIBRARY 1 [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	[illegible]	[illegible] VS
UNKNOWN	3	63.7	8.4 VS
UNKNOWN	4	[illegible]	[illegible]
C-DCE	5	[illegible]	[illegible] PPB
UNKNOWN	6	[illegible]	[illegible]
UNKNOWN	7	[illegible]	[illegible]
TCE	8	[illegible]	[illegible] PPB
PCE	10	[illegible]	[illegible] PPB

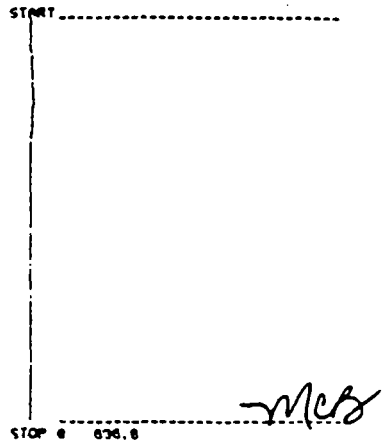
PHOTOVAC



STOP 0 785.5
SAMPLE LIBRARY 1 [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	31.6	283.3 pVS
UNKNOWN	4	46.7	111.3 pVS
UNKNOWN	5	56.5	1.6 VS
UNKNOWN	6	64.3	2.7 VS
UNKNOWN	7	87.7	195.6 pVS
C-DCE	8	105.1	11.58 PPB
TCE	11	215.0	0.835 PPB
TOLUENE	12	[illegible]	[illegible] PPB
PCE	13	566.8	2.704 PPB

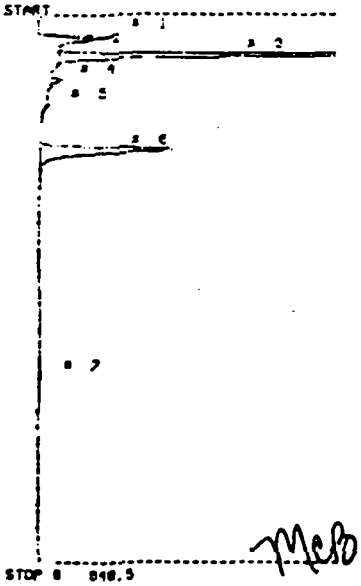
PHOTOVAC



STOP 0 636.8
SAMPLE LIBRARY 1 APR 15 1994 [illegible]
ANALYSIS # 1 NO INJ
INTERNAL TEMP 14
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM

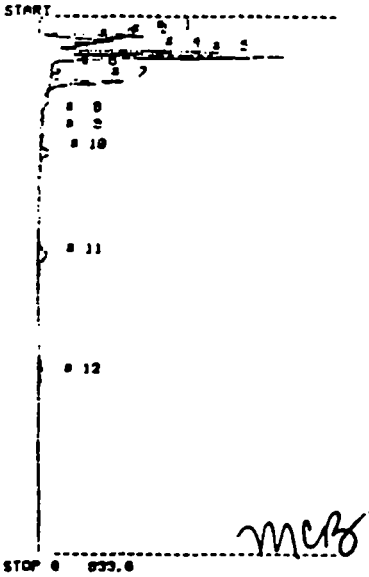
PHOTOVAC



STOP 0 848.5
SAMPLE LIBRARY 1 APR 14 1994 16:42
ANALYSIS # 16 HP-15-25
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	35.2	422.1 pVS
UNKNOWN	3	63.8	11.5 VS
C-DCE	4	104.8	1.853 PPB
TCE	6	216.6	14.45 PPB
PCE	7	565.3	0.555 PPB

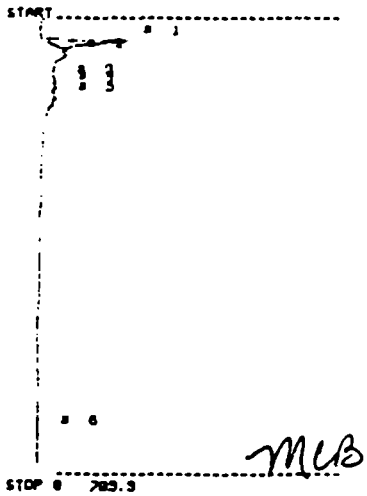
PHOTOVAC



STOP 0 833.8
SAMPLE LIBRARY 1 APR 14 1994 17:17
ANALYSIS # 20 HP-15-2.5
INTERNAL TEMP 21 REANALYSIS
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	[illegible]	[illegible] PPB
UNKNOWN	2	[illegible]	[illegible] pVS
UNKNOWN	3	[illegible]	[illegible] pVS
UNKNOWN	4	[illegible]	[illegible] VS
UNKNOWN	5	[illegible]	[illegible] VS
UNKNOWN	6	[illegible]	[illegible] pVS
C-DCE	7	105.7	11.88 PPB
TCE	10	215.6	0.910 PPB

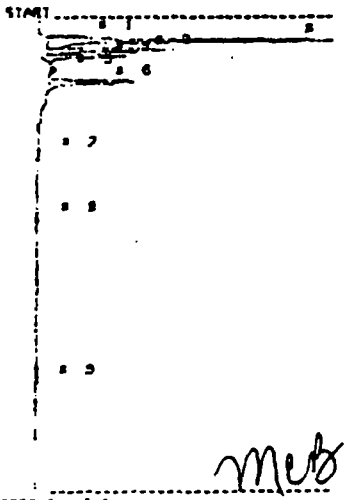
PHOTOVAC



STOP 0 785.3
SAMPLE LIBRARY 1 APR 15 1994 8:34
ANALYSIS # 2 ROOM AIR
INTERNAL TEMP 15
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	38.4	1.5 VS
UNKNOWN	5	126.8	124.8 pVS

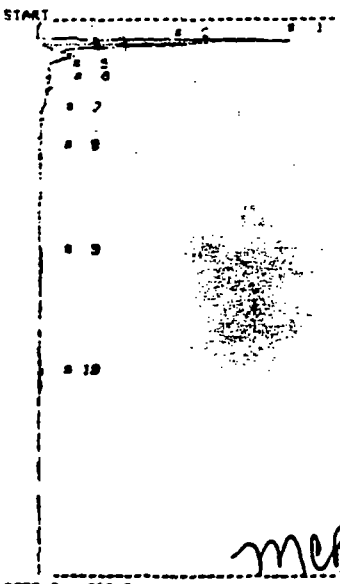
PHOTOVAC



STOP # 246.4
SAMPLE LIBRARY : APR 14 1994 [illegible]
ANALYSIS # 13 [illegible]
INTERNAL TEMP [illegible]
GAIN 10 [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	31.6	343.9 mVS
UNKNOWN	2	39.1	4.3 VS
UNKNOWN	3	54.2	7.1 VS
UNKNOWN	4	64.9	1.1 VS
UNKNOWN	5	87.2	130.2 mVS
C-DCE	6	128.0	13.98 PPB
UNKNOWN	8	221.4	174.1 mVS
PCE	9	574.3	0.930 PPB

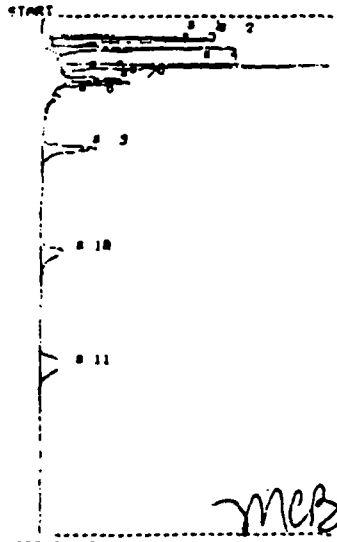
PHOTOVAC



STOP # 866.3
SAMPLE LIBRARY : APR 14 1994 13:47
ANALYSIS # 14 HP-14-28
INTERNAL TEMP 21 SOIL
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	34.5	0.889 PPB
UNKNOWN	2	41.3	2.3 VS
UNKNOWN	4	68.1	186.6 mVS
PCE	10	568.3	0.317 PPB

PHOTOVAC



STOP # 815.9
SAMPLE LIBRARY : APR 14 1994 [illegible]
ANALYSIS # 15 [illegible]
INTERNAL TEMP [illegible]
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.3	0.022 PPB
UNKNOWN	2	39.0	3.3 VS
UNKNOWN	3	54.1	2.7 VS
T-DCE	4	82.6	9.657 PPB
C-DCE	6	105.1	7.337 PPB
C-DCE	7	110.5	8.852 PPB
UNKNOWN	8	134.0	192.7 mVS
TCE	9	216.6	5.754 PPB
TOLUENE	10	382.2	4.741 PPB
PCE	11	560.8	0.018 PPB

PHOTOVAC

CALIBRATED PEAK 9,TCE

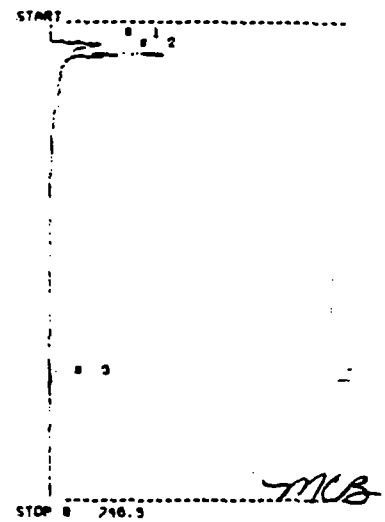
SAMPLE LIBRARY : APR 14 1994 [illegible]
ANALYSIS # 15 [illegible]
INTERNAL TEMP [illegible]
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	35.3	1.2 VS
UNKNOWN	2	39.0	3.3 VS
UNKNOWN	3	54.1	2.7 VS
T-DCE	4	82.6	9.657 PPB
C-DCE	6	105.1	7.337 PPB
UNKNOWN	7	110.5	1.0 VS
UNKNOWN	8	134.0	192.7 mVS
TCE	9	216.6	5.754 PPB
TOLUENE	10	382.2	4.741 PPB
PCE	11	560.8	0.018 PPB

PHOTOVAC

COMPOUND	ID #	R.T.	LIMIT
INJ	1	33.4	1000. PPM
T-DCE	2	80.7	1000. PPM
C-DCE	3	103.8	1000. PPM
TCE	4	216.6	1000. PPM
TOLUENE	5	384.4	1000. PPM
PCE	6	563.5	1000. PPM

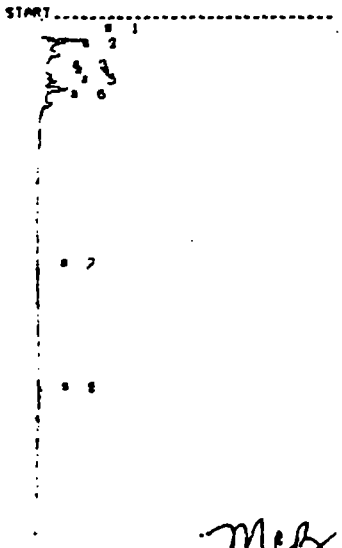
PHOTOVAC



STOP # 246.5
SAMPLE LIBRARY : APR 14 1994 [illegible]
ANALYSIS # 16 [illegible]
INTERNAL TEMP 21 [illegible]
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	36.2	173.4 mVS
UNKNOWN	2	54.1	1.1 VS
PCE	3	566.8	0.788 PPB

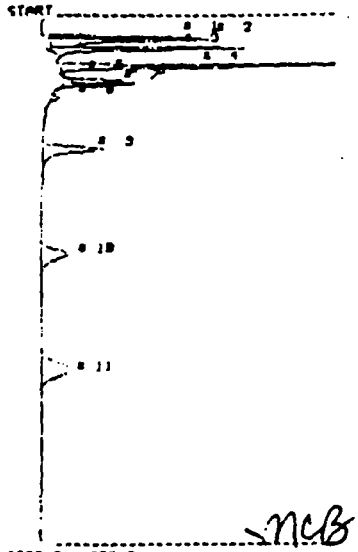
PHOTOVAC



STOP # 852.3
SAMPLE LIBRARY 1 APR 14 1994 10:44
ANALYSIS # 8 ROOM AIR
INTERNAL TEMP 20
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.5	0.000 PPB
UNKNOWN	2	60.5	225.5 pVS
UNKNOWN	4	102.5	111.5 pVS
C-DCE	5	117.1	3.373 PPB
UNKNOWN	6	141.6	140.5 pVS
PCE	8	603.1	0.926 PPB

PHOTOVAC



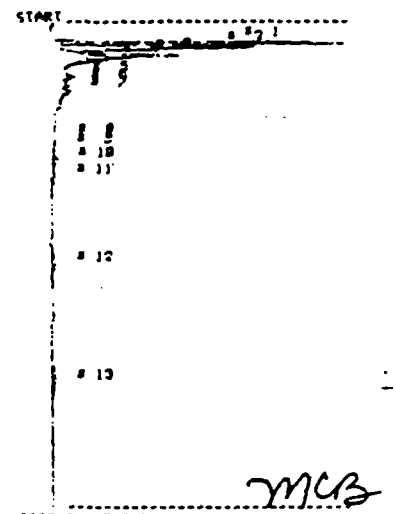
STOP # 835.3
SAMPLE LIBRARY 1 APR 14 1994 10:57
ANALYSIS # 11 LOW STD
INTERNAL TEMP 20
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.5	0.000 PPB
UNKNOWN	2	39.3	3.3 VS
UNKNOWN	3	54.7	2.8 VS
UNKNOWN	4	83.7	4.6 VS
UNKNOWN	6	106.5	852.6 pVS
C-DCE	7	112.8	10.16 PPB
UNKNOWN	8	136.8	175.4 pVS
UNKNOWN	9	221.4	2.1 VS
UNKNOWN	10	391.2	1.5 VS
UNKNOWN	11	575.8	2.2 VS

PHOTOVAC

COMPOUND	ID #	R.T.	LIMIT
INJ	1	34.1	1000. PPM
T-DCE	2	82.5	1000. PPM
C-DCE	3	185.3	1000. PPM
TCE	4	221.4	1000. PPM
TOLUENE	5	392.3	1000. PPM
PCE	6	576.0	1000. PPM

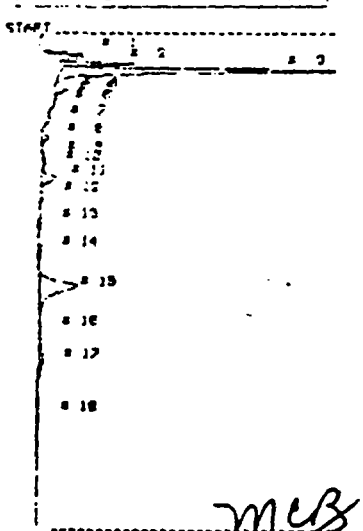
PHOTOVAC



STOP # 762.9
SAMPLE LIBRARY 1 APR 14 1994 10:14
ANALYSIS # 12 HP-14-17
INTERNAL TEMP 21 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	34.5	0.000 PPB
UNKNOWN	2	41.3	3.1 VS
UNKNOWN	3	54.5	1.0 VS
UNKNOWN	4	68.1	413.2 pVS
UNKNOWN	5	90.4	159.7 pVS
UNKNOWN	7	113.2	139.2 pVS
TCE	10	223.8	0.420 PPB
TOLUENE	12	386.2	0.727 PPB
PCE	13	575.8	0.806 PPB

PHOTOVAC



STOP # 772.2
SAMPLE LIBRARY 1 APR 14 1994 10:59
ANALYSIS # 12 HP-13-18
INTERNAL TEMP 20 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.2	0.000 PPB
UNKNOWN	2	50.9	1.0 VS
UNKNOWN	3	59.9	7.3 VS
UNKNOWN	4	93.7	190.6 pVS
UNKNOWN	8	165.7	191.4 pVS
TCE	11	233.4	1.370 PPB
UNKNOWN	14	343.9	123.8 pVS
TOLUENE	15	405.8	0.775 PPB
UNKNOWN	17	518.7	302.4 pVS
PCE	18	599.8	1.000 PPB

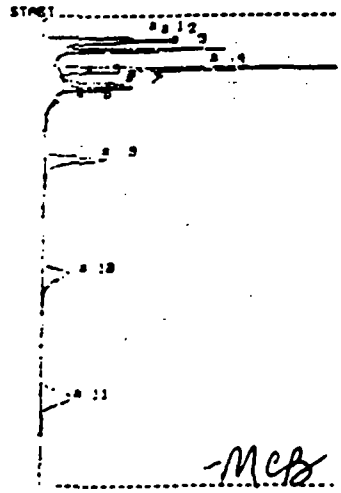
PHOTOVAC

CALIBRATED PEAK 9,TCE

SAMPLE LIBRARY 1 APR 14 1994 10:58
ANALYSIS # 11 LOW STD
INTERNAL TEMP 20
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.5	0.000 PPB
UNKNOWN	2	39.3	3.3 VS
UNKNOWN	3	54.7	2.8 VS
T-DCE	4	83.7	10.18 PPB
C-DCE	6	106.5	7.481 PPB
UNKNOWN	7	112.6	1.1 VS
UNKNOWN	8	136.8	175.4 pVS
TCE	9	221.4	6.580 PPB
TOLUENE	10	391.2	5.365 PPB
PCE	11	575.8	9.719 PPB

PHOTOVAC



MCB

STOP @ 744.6
SAMPLE LIBRARY : APR 14 1994 [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible] UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
INJ	1	36.6	8.000 PPB
UNKNOWN	2	41.7	730.0 pVS
UNKNOWN	3	57.1	1.9 VS
T-DCE	4	89.3	11.38 PPB
C-DCE	6	113.8	8.445 PPB
C-DCE	7	118.8	11.38 PPB
UNKNOWN	8	145.2	106.2 pVS
TCE	9	232.8	7.633 PPB
TOLUENE	10	421.3	6.106 PPB
PCE	11	628.7	9.610 PPB

PHOTOVAC

CALIBRATED PEAK 9.TCE

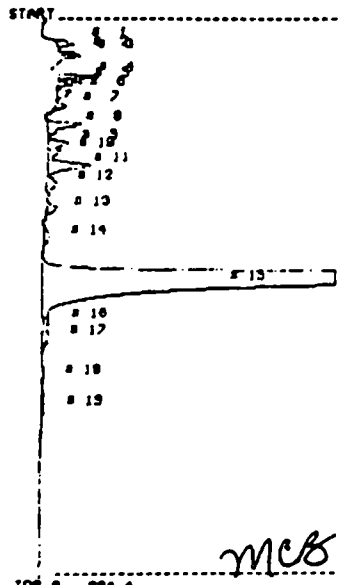
SAMPLE LIBRARY : APR 14 1994 [illegible]
ANALYSIS # [illegible] ETC
INTERNAL TEMP [illegible]
GAIN [illegible] UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
INJ	1	36.6	8.000 PPB
UNKNOWN	2	41.7	730.0 pVS
UNKNOWN	3	57.1	1.9 VS
T-DCE	4	89.3	11.38 PPB
C-DCE	6	113.8	8.445 PPB
UNKNOWN	7	118.8	1.2 VS
UNKNOWN	8	145.2	106.2 pVS
TCE	9	232.8	7.633 PPB
TOLUENE	10	421.3	6.106 PPB
PCE	11	628.7	9.610 PPB

PHOTOVAC

COMPOUND	ID #	R.T.	LIMIT
INJ	1	36.6	1000. PPB
T-DCE	2	89.5	1000. PPB
C-DCE	3	113.8	1000. PPB
TCE	4	232.8	1000. PPB
TOLUENE	5	421.7	1000. PPB
PCE	6	610.1	1000. PPB

PHOTOVAC



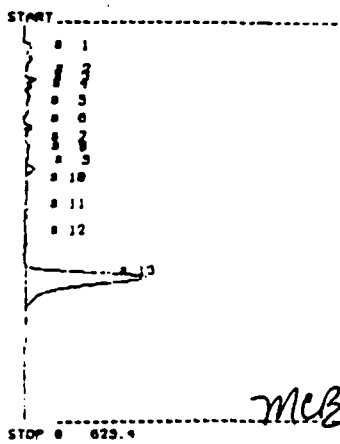
MCB

STOP @ 684.4
SAMPLE LIBRARY : APR 14 1994 [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible] UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	42.1	426.3 pVS
UNKNOWN	2	56.7	166.8 pVS
UNKNOWN	3	61.7	284.3 pVS
UNKNOWN	4	86.1	288.3 pVS
UNKNOWN	5	106.8	474.0 pVS
UNKNOWN	6	120.8	434.7 pVS
UNKNOWN	7	144.8	381.8 pVS
UNKNOWN	8	174.7	1.1 VS
UNKNOWN	9	204.8	256.0 pVS
UNKNOWN	10	217.2	522.8 pVS
TCE	11	240.9	5.682 PPB OS
UNKNOWN	12	268.8	573.2 pVS
UNKNOWN	13	303.5	388.7 pVS
UNKNOWN	14	355.8	327.3 pVS
TOLUENE	15	418.5	375.5 PPB OS
UNKNOWN	16	484.9	415.5 pVS
UNKNOWN	17	512.2	465.4 pVS
PCE	18	622.3	8.683 PPB

OS - offscale - use results from reanalysis

PHOTOVAC

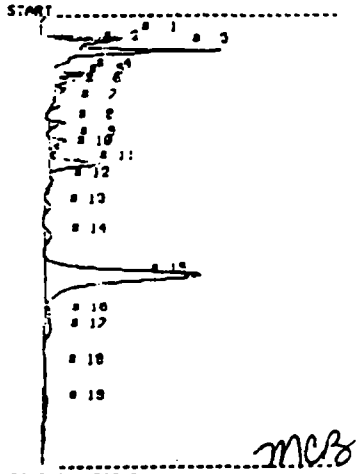


MCB

STOP @ 623.4
SAMPLE LIBRARY : APR 14 1994 [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible] UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	2	35.2	117.4 pVS
UNKNOWN	6	173.2	132.4 pVS
TCE	9	230.2	4.876 PPB
TOLUENE	13	416.8	147.5 PPB

PHOTOVAC

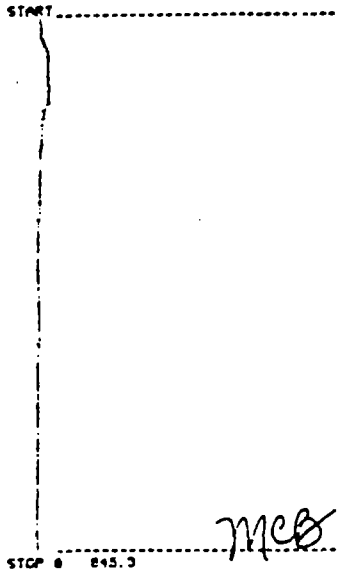


MCB

STOP @ 788.5
SAMPLE LIBRARY : APR 14 1994 [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
INJ	1	36.2	8.000 PPB
UNKNOWN	3	50.1	2.4 VS
UNKNOWN	4	54.8	484.3 pVS
UNKNOWN	5	184.5	287.3 pVS
C-DCE	6	112.7	7.484 PPB
UNKNOWN	7	142.4	261.1 pVS
UNKNOWN	8	172.2	533.6 pVS
UNKNOWN	9	200.4	563.6 pVS
UNKNOWN	10	214.2	356.6 pVS
TCE	11	232.8	5.684 PPB
UNKNOWN	13	303.1	213.1 pVS
UNKNOWN	14	351.1	457.8 pVS
TOLUENE	15	413.5	37.38 PPB
UNKNOWN	16	472.2	481.7 pVS
UNKNOWN	17	504.4	470.3 pVS
PCE	18	615.5	1.183 PPB

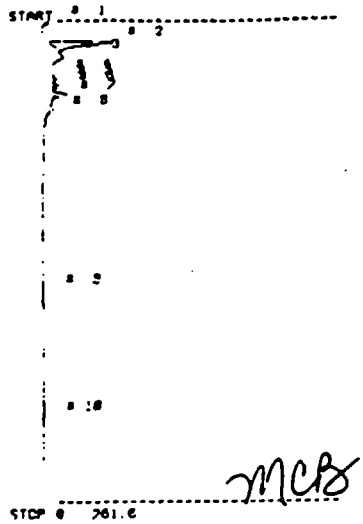
PHOTOVAC



STOP @ 845.3
SAMPLE LIBRARY 1 APR 14 1994 9:36
ANALYSIS # 1 NO INJ
INTERNAL TEMP 17
GAIN 10

COMPOUND NAME PEAK R.T. AREA/PPM

PHOTOVAC



STOP @ 761.6
SAMPLE LIBRARY 1 APR 14 1994 [illegible]
ANALYSIS # 5 ROOM AIR
INTERNAL TEMP 17
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	37.2	1.1 US
UNKNOWN	7	122.4	250.5 mUS
UNKNOWN	10	630.3	135.5 mUS

PHOTOVAC

CALIBRATED PEAK 10,TCE

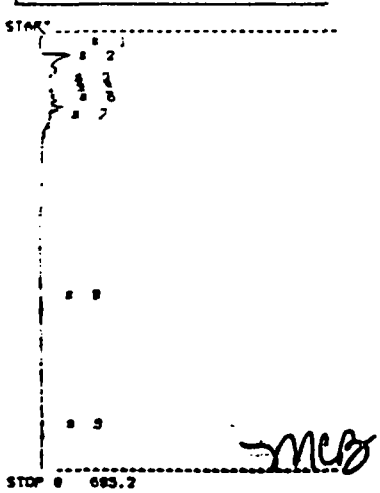
SAMPLE LIBRARY 1 APR 14 1994 [illegible]
ANALYSIS # 4 LOW STD
INTERNAL TEMP 18
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	2	36.7	0.000 PPB
UNKNOWN	3	42.1	465.6 mUS
UNKNOWN	4	57.3	1.7 US
T-DCE	5	89.2	10.24 PPB
C-DCE	7	114.1	8.251 PPB
UNKNOWN	8	120.8	1.1 US
TCE	10	233.5	7.546 PPB
TOLUENE	11	426.7	5.224 PPB
PCE	12	625.5	8.740 PPB

PHOTOVAC

#	COMPOUND	ID #	R.T.	LIMIT
INJ		1	36.9	1000. PPM
T-DCE		2	89.2	1000. PPM
C-DCE		3	113.9	1000. PPM
TCE		4	233.5	1000. PPM
TOLUENE		5	425.1	1000. PPM
PCE		6	625.8	1000. PPM

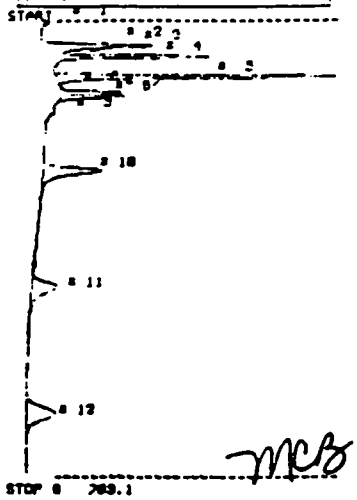
PHOTOVAC



STOP @ 685.2
SAMPLE LIBRARY 1 APR 14 1994 8:52
ANALYSIS # 2 ROOM AIR
INTERNAL TEMP 17
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	6	123.2	244.8 mUS
UNKNOWN	9	635.1	131.9 mUS

PHOTOVAC



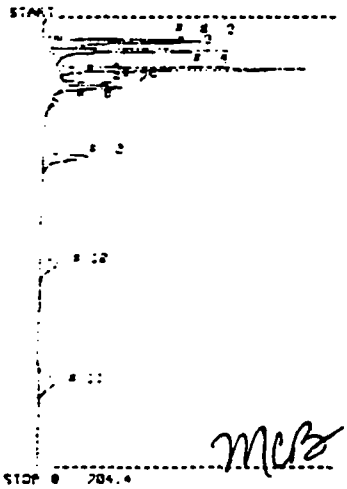
STOP @ 789.1
SAMPLE LIBRARY 1 APR 14 1994 9:21
ANALYSIS # 4 LOW STD
INTERNAL TEMP 18
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	36.7	184.5 mUS
UNKNOWN	3	42.1	489.0 mUS
UNKNOWN	4	57.3	1.7 US
UNKNOWN	5	89.2	4.6 US
UNKNOWN	7	114.1	348.4 mUS
UNKNOWN	8	120.8	1.1 US
UNKNOWN	10	233.5	2.4 US
UNKNOWN	11	426.7	1.5 US
UNKNOWN	12	625.5	2.8 US

PHOTOVAC

COMPOUND	ID #	R.T.	LIMIT
INJ	1	[illegible]	[illegible] PPM
T-DCE	2	[illegible]	[illegible] PPM
C-DCE	3	[illegible]	[illegible] PPM
TCE	4	[illegible]	[illegible] PPM
TOLUENE	5	[illegible]	[illegible] PPM
PCE	6	[illegible]	[illegible] PPM

PHOTOVAC



MCB

STOP @ 704.4
SAMPLE LIBRARY : [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
[illegible] 10 [illegible] UL IN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.9	8.002 PPB
UNKNOWN	2	48.1	3.2 VS
UNKNOWN	3	55.3	2.5 VS
T-DCE	4	85.0	6.543 PPB
C-DCE	6	108.1	6.820 PPB
UNKNOWN	7	114.1	384.1 PVS
UNKNOWN	8	138.8	134.1 PVS
TCE	9	222.0	4.964 PPB
TOLUENE	10	338.2	3.747 PPB
PCE	11	588.3	5.487 PPB

PHOTOVAC

MCB

STOP @ 748.4
SAMPLE LIBRARY : [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
[illegible] 10 [illegible] UL IN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	38.9	522.9 PVS
UNKNOWN	3	65.7	275.0 PVS

PHOTOVAC

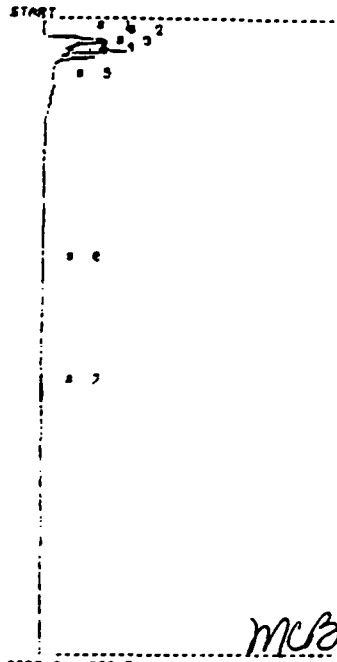
START ==========

MCB

STOP @ 5.3
SAMPLE LIBRARY : [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
[illegible] 10 [illegible] UL IN

COMPOUND NAME	PEAK	R.T.	AREA/PPM

PHOTOVAC

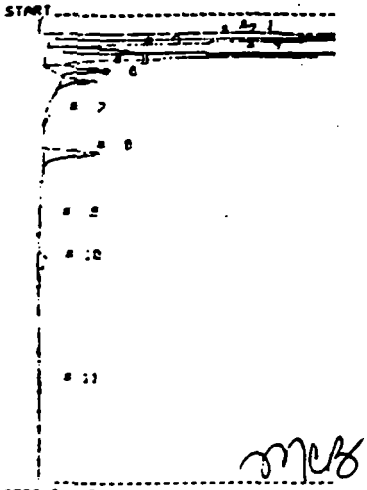


MCB

STOP @ 1082.8
SAMPLE LIBRARY : [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
[illegible] 10 [illegible] UL IN

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	[illegible]	[illegible] PVS
UNKNOWN	2	38.2	241.3 PVS
UNKNOWN	3	55.1	652.2 PVS
UNKNOWN	4	65.7	388.7 PVS

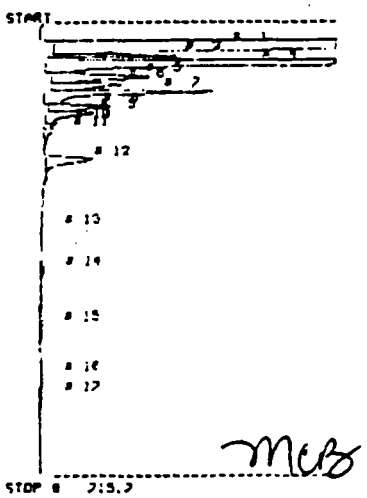
PHOTOVAC



STOP @ 740.5
SAMPLE LIBRARY 1 APR 13 1994 16:49
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	34.6	0.000 PPB
UNKNOWN	2	41.2	7.9 US
UNKNOWN	3	55.5	2.2 US
UNKNOWN	4	65.7	10.9 US
UNKNOWN	5	90.1	1.6 US
C-DCE	6	109.4	0.266 PPB
TCE	8	[illegible]	0.055 PPB
TOLUENE	10	400.5	1.678 PPB
PCE	11	532.3	0.589 PPB

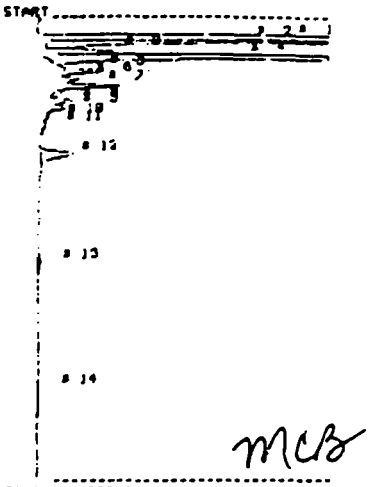
PHOTOVAC



STOP @ 715.7
SAMPLE LIBRARY 1 APR 13 1994 16:41
ANALYSIS # 24 [illegible]
INTERNAL TEMP 28 GA
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	37.6	62.4 US
UNKNOWN	2	55.7	1.6 US
UNKNOWN	3	59.3	1.7 US
UNKNOWN	4	66.3	16.3 US
UNKNOWN	5	90.7	3.1 US
UNKNOWN	6	102.1	2.0 US
UNKNOWN	7	114.7	4.1 US
UNKNOWN	8	133.2	1.6 US
UNKNOWN	9	140.8	1.5 US
UNKNOWN	10	165.2	331.0 pUS
UNKNOWN	11	178.2	310.5 pUS
TCE	12	225.6	5.242 PPB
TOLUENE	14	358.2	0.616 PPB
UNKNOWN	15	484.5	132.8 pUS

PHOTOVAC



STOP @ 758.6
SAMPLE LIBRARY 1 APR 13 1994 [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	33.4	0.000 PPB
UNKNOWN	2	40.8	6.5 US
UNKNOWN	3	53.1	1.6 US
UNKNOWN	4	65.5	15.1 US
UNKNOWN	5	90.1	832.5 pUS
UNKNOWN	6	101.6	[illegible] pUS
UNKNOWN	7	114.4	758.0 pUS
UNKNOWN	8	138.8	487.3 pUS
UNKNOWN	9	148.4	[illegible] pUS
TCE	12	225.8	3.512 PPB
TOLUENE	13	357.2	0.471 PPB

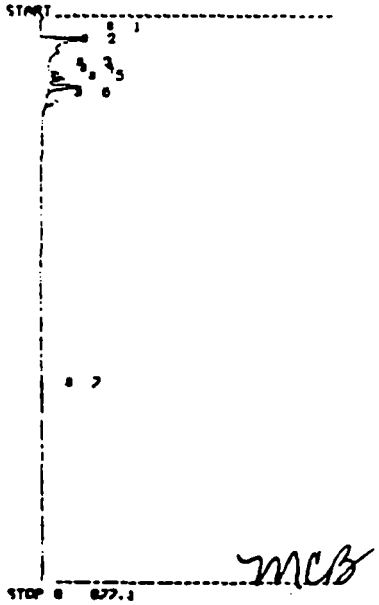
PHOTOVAC

CALIBRATED PEAK 12,TCE

SAMPLE LIBRARY 1 APR 13 1994 16:49
ANALYSIS # 24 [illegible]
INTERNAL TEMP 28 GA
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	37.6	62.4 US
UNKNOWN	2	55.7	1.6 US
UNKNOWN	3	59.3	1.7 US
UNKNOWN	4	66.3	16.3 US
UNKNOWN	5	90.7	3.1 US
UNKNOWN	6	102.1	2.0 US
UNKNOWN	7	114.7	4.1 US
UNKNOWN	8	133.2	1.6 US
UNKNOWN	9	140.8	1.5 US
UNKNOWN	10	165.2	331.0 pUS
UNKNOWN	11	178.2	310.5 pUS
TCE	12	225.6	5.242 PPB
TOLUENE	14	358.2	0.616 PPB
UNKNOWN	15	484.5	132.8 pUS

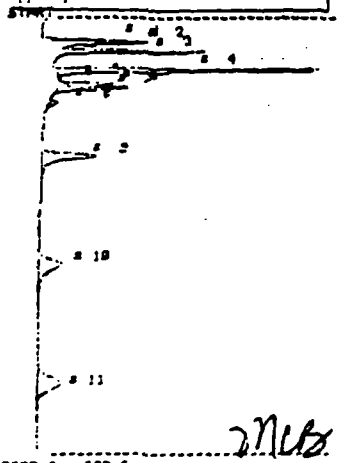
PHOTOVAC



STOP @ 877.1
SAMPLE LIBRARY 1 APR 13 1994 [illegible]
ANALYSIS # 26 ROOM AIR
INTERNAL TEMP 28
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	33.8	0.000 PPB
UNKNOWN	4	101.5	153.5 pUS
UNKNOWN	5	114.1	538.8 pUS
UNKNOWN	6	138.8	243.8 pUS

PHOTOVAC



MCB

STOP @ 632.6
SAMPLE LIBRARY : APR 10 1994 14:58
ANALYSIS # 53 LOG 210
INTERNAL TEMP 50
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
INJ	1	36.1	0.000 PPB
UNKNOWN	2	49.9	465.0 uVS
UNKNOWN	3	55.7	1.6 VS
UNKNOWN	4	85.6	4.0 VS
UNKNOWN	6	105.3	817.4 uVS
C-DCE	7	115.0	10.00 PPB
UNKNOWN	8	130.8	143.6 uVS
UNKNOWN	9	222.4	1.9 VS
UNKNOWN	10	421.5	1.3 VS
UNKNOWN	11	592.3	1.7 VS

PHOTOVAC

CALIBRATED PEAK 5.TCE

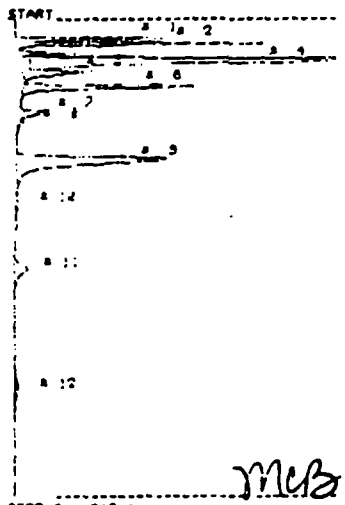
SAMPLE LIBRARY : APR 10 1994 14:53
ANALYSIS # 52 LOG 210
INTERNAL TEMP 50
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
INJ	1	36.1	0.000 PPB
UNKNOWN	2	49.9	465.0 uVS
UNKNOWN	3	55.7	1.6 VS
T-DCE	4	85.6	5.023 PPB
C-DCE	6	105.3	7.171 PPB
UNKNOWN	7	115.0	1.1 VS
UNKNOWN	8	130.8	100.0 uVS
TCE	9	222.4	5.570 PPB
TOLUENE	10	421.5	5.667 PPB
PCE	11	592.3	7.380 PPB

PHOTOVAC

COMPOUND	ID #	R.T.	LIMIT
INJ	1	36.1	1000. PPB
T-DCE	2	85.7	1000. PPB
C-DCE	3	105.1	1000. PPB
TCE	4	222.4	1000. PPB
TOLUENE	5	423.6	1000. PPB
PCE	6	521.5	1000. PPB

PHOTOVAC



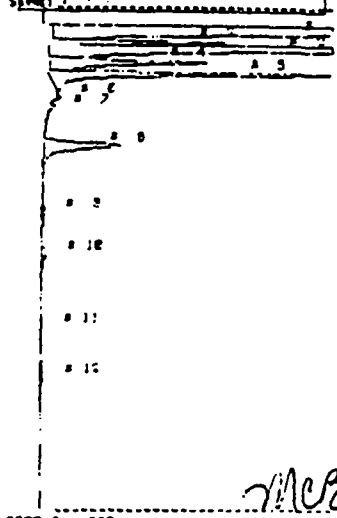
MCB

STOP @ 242.4
SAMPLE LIBRARY : APR 10 1994 14:55
ANALYSIS # 5 LOG 210
INTERNAL TEMP 50
GAIN 5 100 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	31.8	1.3 VS
UNKNOWN	2	33.9	2.2 VS
UNKNOWN	3	37.7	670.0 uVS
UNKNOWN	4	66.6	19.3 VS
T-DCE	5	85.3	17.03 PPB
C-DCE	6	108.7	148.4 PPB
UNKNOWN	7	130.8	526.3 uVS
TCE	8	176.2	33.03 PPB
TOLUENE	11	401.4	12.75 PPB
PCE	12	530.8	5.467 PPB

x 2.5

PHOTOVAC



MCB

STOP @ 292.4
SAMPLE LIBRARY : APR 10 1994 14:57
ANALYSIS # 51 LOG 210
INTERNAL TEMP 50
GAIN 10 100 UL INJ

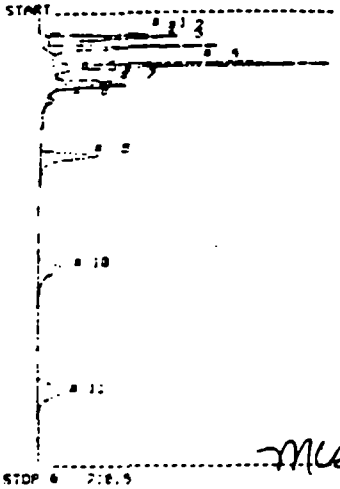
COMPOUND NAME	PEAK	R.T.	AREA/PPB
INJ	1	36.8	0.000 PPB
UNKNOWN	2	37.9	3.4 VS
UNKNOWN	3	66.5	18.8 VS
UNKNOWN	4	90.1	4.2 VS
C-DCE	5	107.6	66.21 PPB
TCE	8	225.6	8.867 PPB
TOLUENE	10	333.2	0.224 PPB
PCE	12	530.8	0.273 PPB

PHOTOVAC

SAMPLE LIBRARY : APR 10 1994 14:54
ANALYSIS # 50 LOG 210
INTERNAL TEMP 50
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
INJ	1	36.8	0.000 PPB
UNKNOWN	2	37.9	3.4 VS
UNKNOWN	3	66.5	18.8 VS
UNKNOWN	4	90.1	4.2 VS
C-DCE	5	107.6	66.21 PPB
TCE	8	225.6	8.867 PPB
TOLUENE	10	333.2	0.224 PPB
PCE	12	530.8	0.273 PPB

PHOTOVAC



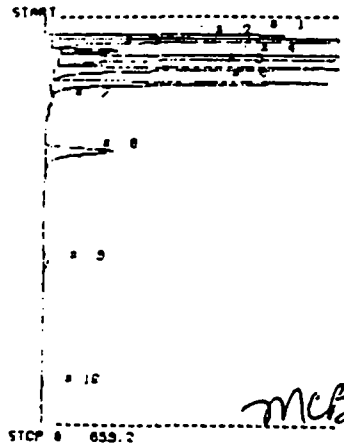
MCB

STOP @ 718.5
SAMPLE LIBRARY 1 APR 13 1994 [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GRIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPB
INJ	1	36.0	0.820 PPB
UNKNOWN	2	40.5	2.0 US
UNKNOWN	3	55.3	2.4 US
T-DCE	4	67.4	0.787 PPB
C-DCE	6	[illegible]	[illegible] PPB
[illegible]	7	[illegible]	[illegible]
UNKNOWN	8	143.3	120.8 PPB
TCE	9	224.6	6.583 PPB
TOLUENE	10	412.9	5.104 PPB
PCE	11	614.3	8.104 PPB

MCB

PHOTOVAC

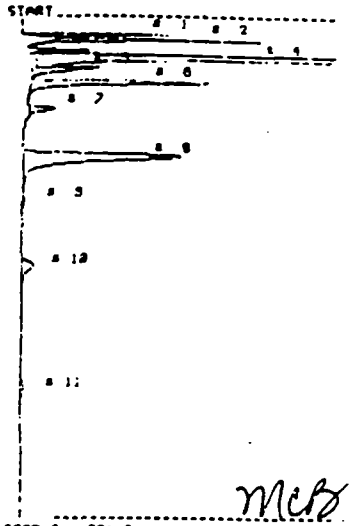


MCB

STOP @ 659.2
SAMPLE LIBRARY [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GRIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	32.1	3.3 US
UNKNOWN	2	40.1	8.1 US
UNKNOWN	3	57.7	1.3 US
UNKNOWN	4	66.8	15.4 US
T-DCE	5	86.4	26.92 PPB ←
C-DCE	6	110.8	99.21 PPB ←
TCE	8	232.3	15.68 PPB
TOLUENE	9	412.4	2.057 PPB
PCE	10	602.3	0.933 PPB

PHOTOVAC

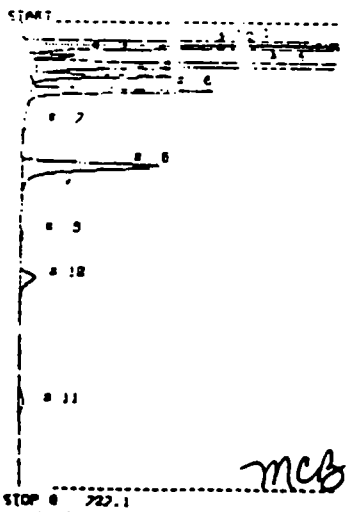


MCB

STOP @ 751.2
SAMPLE LIBRARY [illegible]
ANALYSIS # [illegible]
INTERNAL TEMP [illegible]
GRIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	31.7	832.1 uUS
UNKNOWN	2	35.6	1.5 US
UNKNOWN	3	37.9	642.2 uUS
UNKNOWN	4	66.9	19.6 US
UNKNOWN	5	85.5	1.4 US
UNKNOWN	6	103.6	9.2 US
UNKNOWN	7	151.2	604.4 uUS
UNKNOWN	8	226.6	6.8 US
UNKNOWN	10	496.5	655.3 uUS
UNKNOWN	11	556.3	[illegible] uUS

PHOTOVAC

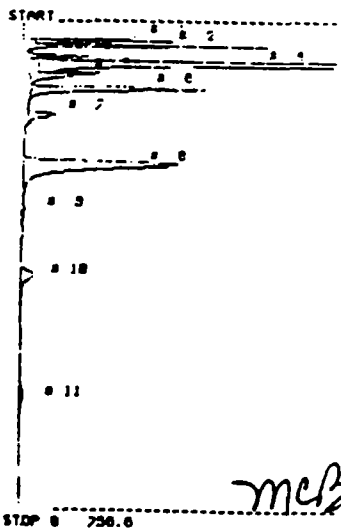


MCB

STOP @ 727.1
SAMPLE LIBRARY 1 APR 13 1994 [illegible]
ANALYSIS # 17 MP-5-18
INTERNAL TEMP 28 REANALYSIS
GRIN 2 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	32.5	6.8 US
UNKNOWN	2	40.3	8.5 US
UNKNOWN	3	56.3	511.4 uUS
UNKNOWN	4	67.0	15.0 US
T-DCE	5	86.5	33.86 PPB ←
C-DCE	6	110.5	176.1 PPB ←
TCE	8	231.0	50.85 PPB ←
TOLUENE	10	411.3	14.54 PPB
PCE	11	604.7	2.526 PPB

PHOTOVAC

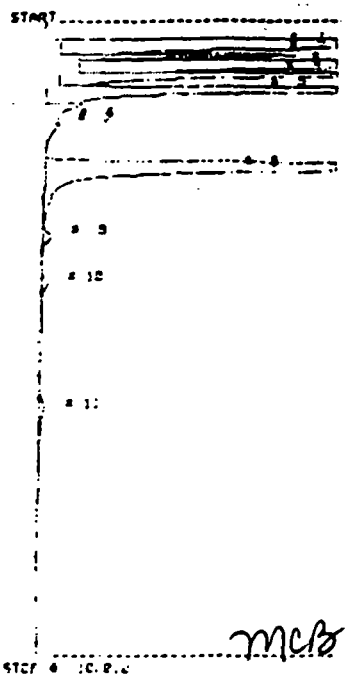


MCB

STOP @ 756.6
SAMPLE LIBRARY 1 APR 13 1994 [illegible]
ANALYSIS # 19 MP-10-18
INTERNAL TEMP 28 REANALYSIS
GRIN 2 100 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPB
UNKNOWN	1	32.1	1.3 US
UNKNOWN	2	40.3	2.3 US
UNKNOWN	3	58.3	652.4 uUS
UNKNOWN	4	67.1	29.2 US
T-DCE	5	86.2	16.51 PPB
UNKNOWN	6	103.6	9.2 US
UNKNOWN	7	151.2	618.7 uUS
UNKNOWN	8	228.6	6.6 US
UNKNOWN	10	485.8	665.6 uUS
UNKNOWN	11	556.8	216.3 uUS

PHOTOVAC

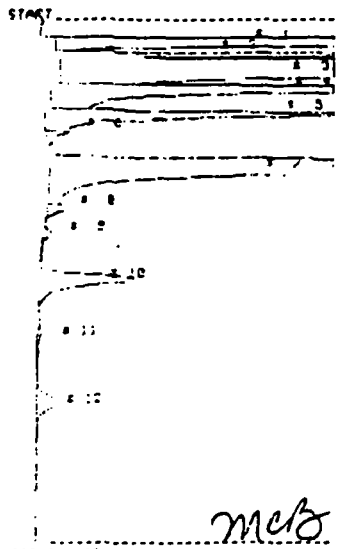


STOP 6 [illegible]
SAMPLE LIBRARY 1 [illegible]
ANALYTICAL # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
IN	1	37.8	0.000 PPB	
UNKNOWN	2	57.1	5.0 US	
UNKNOWN	3	78.3	33.0 US	
T-DCE	4	87.6	33.31 PPB	OS
C-DCE	5	112.4	214.8 PPB	OS
TCE	6	135.7	166.2 PPB	OS
UNKNOWN	9	350.2	388.8 AUS	
TOLUENE	10	22.3	1.196 PPB	
PCE	11	422.3	1.467 PPB	

OS - offscale - use reanalysis results

PHOTOVAC

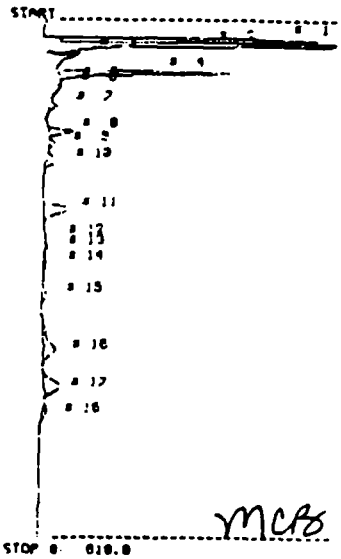


STOP 6 [illegible]
SAMPLE LIBRARY 1 [illegible]
ANALYTICAL # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
IN	1	37.0	0.300 PPB	
UNKNOWN	2	57.9	[illegible] US	
UNKNOWN	3	78.5	[illegible] US	
C-DCE	4	112.7	[illegible] PPB	OS
UNKNOWN	5	153.7	17.0 US	
UNKNOWN	6	184.2	644.6 AUS	
TCE	7	237.3	415.1 PPB	OS
UNKNOWN	8	308.3	387.8 AUS	
UNKNOWN	9	348.4	299.1 AUS	
TOLUENE	10	421.2	20.94 PPB	
UNKNOWN	11	510.7	242.0 AUS	
PCE	12	620.7	7.466 PPB	

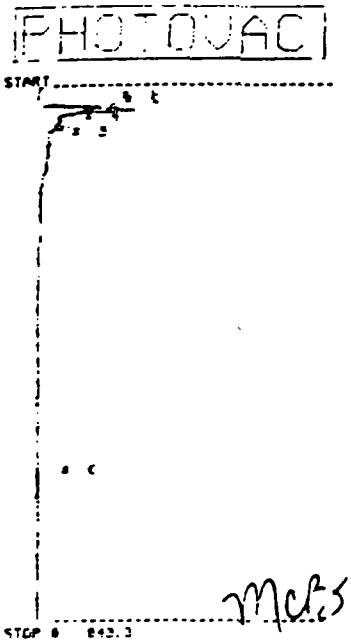
OS - offscale - use reanalysis results

PHOTOVAC



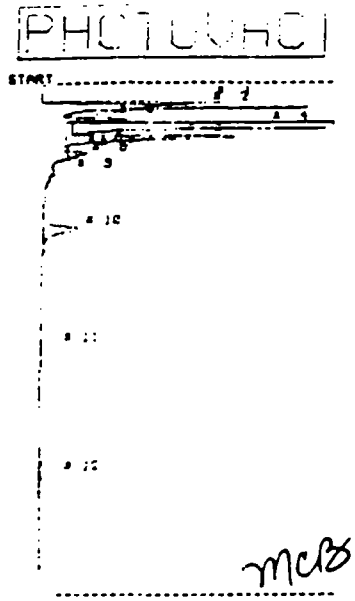
STOP 8 [illegible]
SAMPLE LIBRARY 1 [illegible]
ANALYTICAL # [illegible]
INTERNAL TEMP [illegible]
GAIN [illegible]

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.4	2.9 US
UNKNOWN	2	40.6	10.2 US
UNKNOWN	3	56.7	314.1 AUS
T-DCE	4	87.7	0.593 PPB
UNKNOWN	7	143.2	149.2 AUS
UNKNOWN	8	185.2	634.4 AUS
UNKNOWN	9	205.8	165.5 AUS
TCE	10	233.4	1.151 PPB
UNKNOWN	11	302.1	1.2 US
TOLUENE	15	444.8	0.555 PPB
UNKNOWN	16	534.1	1.2 US
UNKNOWN	17	593.8	1.0 US
PCE	18	633.5	0.454 PPB



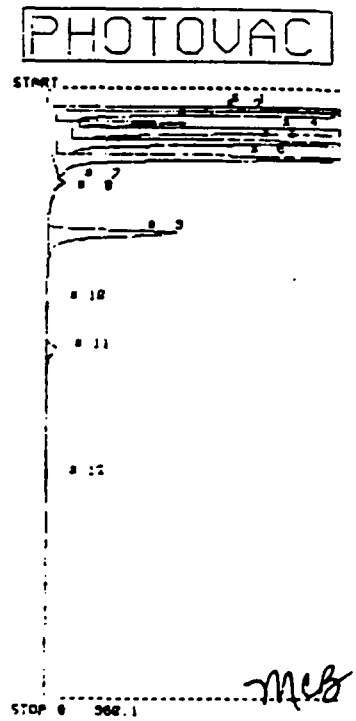
STOP @ 843.3
SAMPLE LIBRARY 1 APR 13 1994 10:18
ANALYSIS # [illegible]
INTERNAL TEMP 18 [illegible]
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.4	0.020 PPB
UNKNOWN	2	40.1	385.9 PVS
UNKNOWN	4	68.1	161.4 PVS



STOP @ 802.4
SAMPLE LIBRARY 1 APR 13 1994 10:45
ANALYSIS # [illegible]
INTERNAL TEMP 18 [illegible]
GAIN 10 250 UL INJ

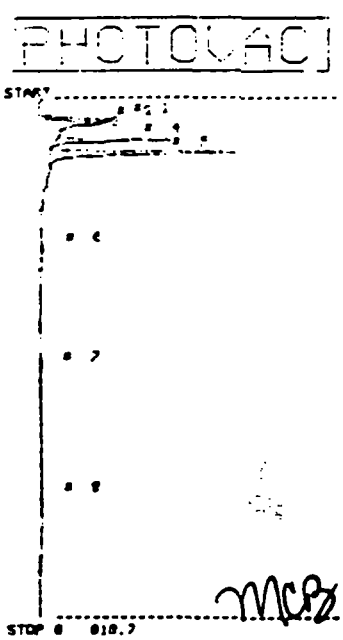
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.8	1.0 VS
UNKNOWN	2	41.5	1.2 VS
UNKNOWN	3	52.5	251.8 PVS
UNKNOWN	4	68.4	13.6 VS
T-DCE	5	83.1	7.908 PPB
C-DCE	6	113.8	1.910 PPB
~~[illegible]~~	~~7~~	~~[illegible]~~	~~[illegible]~~ MCB
UNKNOWN	8	146.0	126.3 PVS
TCE	10	208.8	4.248 PPB



STOP @ 960.1
SAMPLE LIBRARY 1 APR 13 1994 11:26
ANALYSIS # 11 [illegible]
INTERNAL TEMP 18 [illegible]
GAIN 10 250 UL INJ

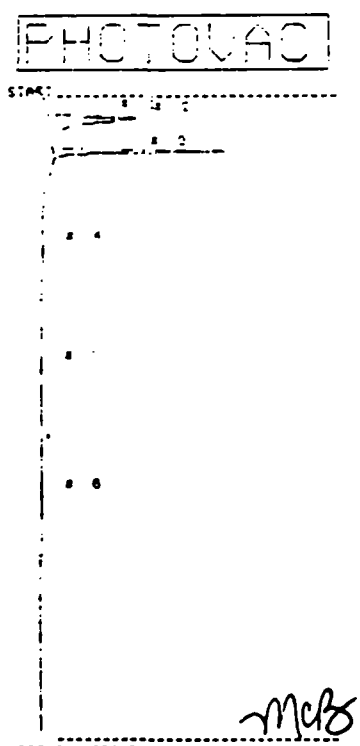
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.3	7.1 VS
UNKNOWN	2	40.9	11.1 VS
UNKNOWN	3	58.7	2.7 VS
UNKNOWN	4	68.6	21.6 VS
T-DCE	5	87.8	31.83 PPB OS
C-DCE	6	112.3	135.4 PPB OS
UNKNOWN	7	156.0	112.2 PVS
TCE	9	237.6	15.84 PPB
TOLUENE	11	424.5	1.558 PPB
PCE	12	623.9	0.767 PPB

OS - offscale.
use reanalysis
results.



STOP @ 818.7
SAMPLE LIBRARY 1 APR 13 1994 10:33
ANALYSIS # 9 HP-3-10
INTERNAL TEMP 18 GW
GAIN 10 250 UL INJ

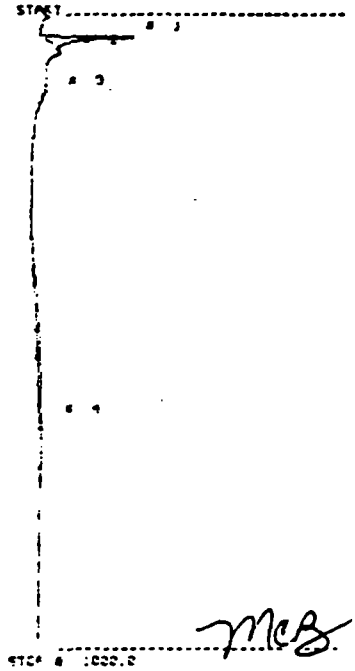
COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	35.9	0.088 PPB
UNKNOWN	4	68.5	1.4 VS
T-DCE	5	88.9	7.172 PPB



STOP @ 1000.0
SAMPLE LIBRARY 1 APR 13 1994 [illegible]
ANALYSIS # 13 HP-7-10
INTERNAL TEMP 18 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.6	169.1 PVS
INJ	2	36.5	0.000 PPB
T-DCE	3	88.5	6.[illegible] PPB

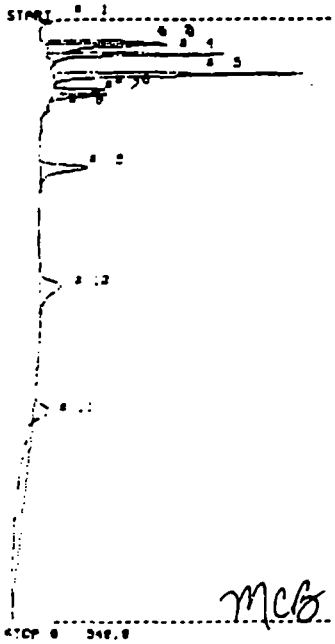
PHOTOVAC



STOP @ 1000.0
SAMPLE LIBRARY 1 APR 13 1994 [illegible]
ANALYSIS # 3 ROOM AIR
INTERNAL TEMP 16
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	38.4	0.000 PPB
PCE	4	641.7	4.545 PPB

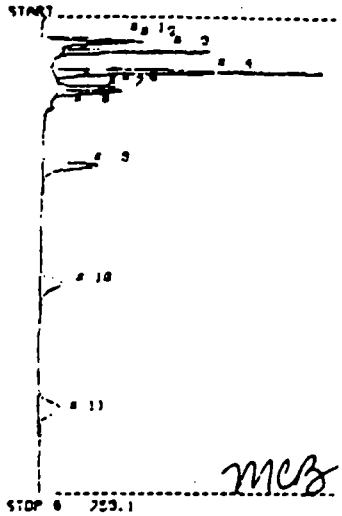
PHOTOVAC



STOP @ 948.0
SAMPLE LIBRARY 1 APR 13 1994 [illegible]
ANALYSIS # 4 LOW STD
INTERNAL TEMP 17
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	2	37.1	0.000 PPB
UNKNOWN	3	42.3	2.9 VS
UNKNOWN	4	58.1	2.7 VS
T-DCE	5	90.4	9.764 PPB
C-DCE	6	115.6	7.642 PPB
UNKNOWN	7	122.4	1.0 VS
TCE	9	243.0	6.366 PPB
TOLUENE	10	432.2	5.358 PPB

PHOTOVAC



STOP @ 753.1
SAMPLE LIBRARY 1 APR 13 1994 [illegible]
ANALYSIS # 5 LOW STD
INTERNAL TEMP 17
GAIN 10 250 UL INJ

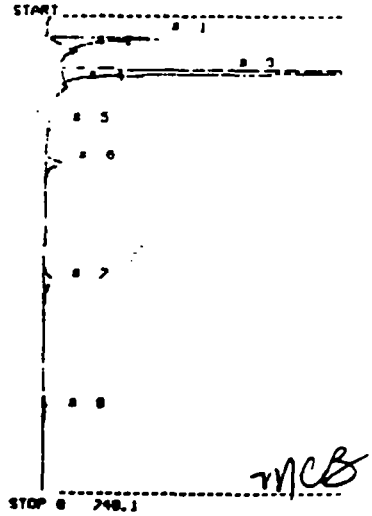
COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	37.4	0.000 PPB
UNKNOWN	2	42.9	368.6 AVS
UNKNOWN	3	58.3	1.6 VS
T-DCE	4	90.7	10.25 PPB
C-DCE	6	115.9	8.816 PPB
UNKNOWN	7	122.2	1.2 VS
TCE	9	243.7	6.514 PPB
TOLUENE	10	432.2	5.276 PPB
PCE	11	633.5	6.459 PPB

PHOTOVAC

STOP @ 762.0
SAMPLE LIBRARY 1 APR 13 1994 [illegible]
ANALYSIS # 3 ROOM AIR
INTERNAL TEMP 16
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	2	37.4	0.000 PPB

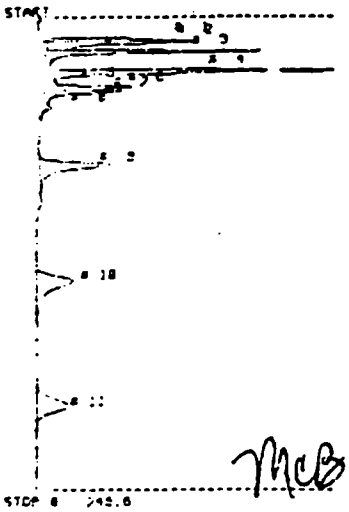
PHOTOVAC



STOP @ 740.1
SAMPLE LIBRARY 1 APR 13 1994 10:2
ANALYSIS # 6 HP-1-10
INTERNAL TEMP 17 GW
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
INJ	1	36.9	0.000 PPB
T-DCE	3	80.7	27.88 PPB
TCE	6	240.9	1.717 PPB
TOLUENE	7	428.9	1.455 PPB
PCE	8	628.7	0.455 PPB

PHOTOVAC



STOP # 245.6
SAMPLE LIBRARY : APR 12 1994 10:5
ANALYSIS # 2 LOW STD
INTERNAL TEMP 12
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	37.4	1.1	US
UNKNOWN	2	42.3	3.4	US
UNKNOWN	3	58.3	3.2	US
UNKNOWN	4	90.3	4.7	US
UNKNOWN	6	115.3	1.2	US
UNKNOWN	7	122.8	1.1	US
UNKNOWN	9	242.3	3.0	US
UNKNOWN	10	430.0	2.6	US
UNKNOWN	11	630.3	2.3	US

PHOTOVAC

SAMPLE LIBRARY : APR 12 1994 10:15
ANALYSIS # 2 LOW STD
INTERNAL TEMP 12
GAIN 10 250 UL INJ

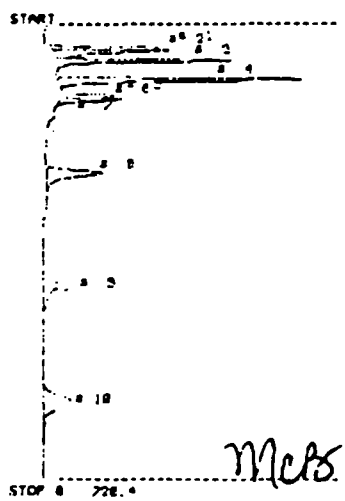
COMPOUND NAME	PEAK	R.T.	AREA/PPM	
INJ	1	37.4	0.023	PPB
UNKNOWN	2	42.3	3.4	US
UNKNOWN	3	58.3	3.2	US
T-DCE	4	90.3	10.50	PPB
C-DCE	6	115.3	10.70	PPB
UNKNOWN	7	122.8	1.1	US
TCE	9	242.3	5.150	PPB
TOLUENE	10	430.0	3.030	PPB
PCE	11	630.3	10.14	PPB

PHOTOVAC

START MCB
STOP # 1.8
SAMPLE LIBRARY : APR 12 1994 10:17
ANALYSIS # 0 LOW STD
INTERNAL TEMP 10
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM

PHOTOVAC



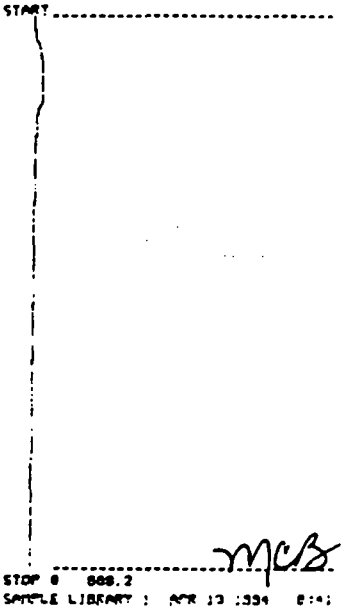
STOP # 728.4
SAMPLE LIBRARY : APR 12 1994 10:21
ANALYSIS # 2 LOW STD
INTERNAL TEMP 12
GAIN 10 250 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
INJ	1	35.3	0.022	PPB
UNKNOWN	2	43.9	2.7	US
UNKNOWN	3	55.7	2.9	US
T-DCE	4	91.3	9.342	PPB
C-DCE	5	115.9	8.234	PPB
UNKNOWN	6	122.8	1.3	US
TCE	8	240.9	7.122	PPB
TOLUENE	9	426.7	6.042	PPB
PCE	10	623.9	8.638	PPB

PHOTOVAC

1	COMPOUND	ID #	R.T.	LIMIT
INJ		1	37.4	1000. PPM
T-DCE		2	90.3	1000. PPM
C-DCE		3	115.3	1000. PPM
TCE		4	242.3	1000. PPM
TOLUENE		5	430.0	1000. PPM
PCE		6	630.3	1000. PPM

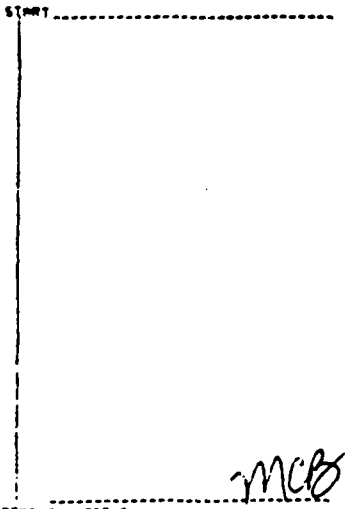
PHOTOVAC



STOP # 888.2
SAMPLE LIBRARY : APR 13 1994 8:41
ANALYSIS # 1 NO INJ
INTERNAL TEMP 12
GAIN 10

COMPOUND NAME	PEAK	R.T.	AREA/PPM

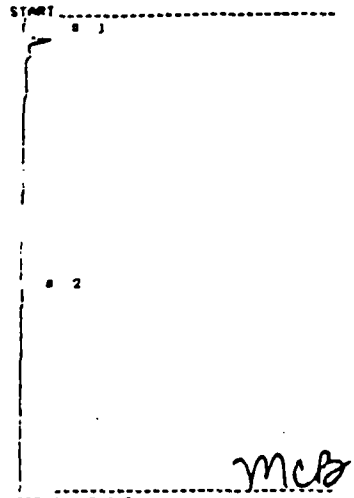
PHOTOVAC



STOP @ 762.6
SAMPLE LIBRARY : APR 12 1994 8:36
ANALYSIS # 1 NO INJ
INTERNAL TEMP 12
GAIN 2

COMPOUND NAME PEAK R.T. AREA/PPM

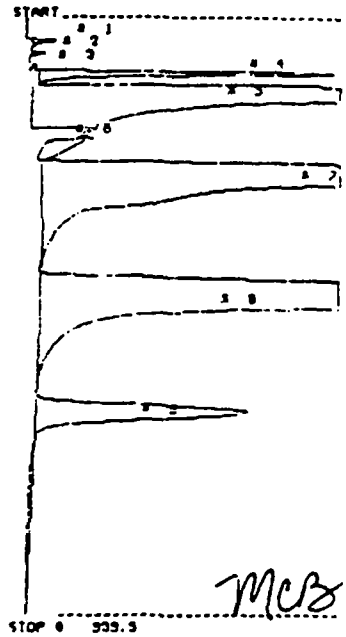
PHOTOVAC



STOP @ 749.3
SAMPLE LIBRARY : APR 12 1994 [illegible]
ANALYSIS # 2 ROOM AIR
INTERNAL TEMP 18
GAIN 2 500 UL INJ

COMPOUND NAME PEAK R.T. AREA/PPM

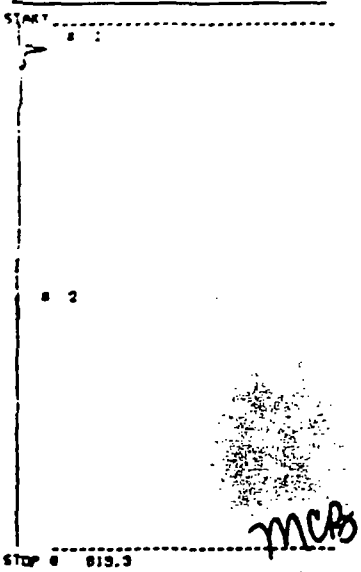
PHOTOVAC



STOP @ 935.5
SAMPLE LIBRARY : APR 12 1994 [illegible]
ANALYSIS # 6 [illegible]
INTERNAL TEMP [illegible]
GAIN 2 [illegible]

COMPOUND NAME	PEAK	R.T.	AREA PPM	
UNKNOWN	1	38.1	319.1	PUS
UNKNOWN	2	59.3	148.1	PUS
UNKNOWN	4	92.2	6.8	US
UNKNOWN	5	172.1	167.5	US
UNKNOWN	7	757.6	947.3	US
UNKNOWN	8	442.5	424.7	US
UNKNOWN	9	636.7	16.8	US

PHOTOVAC

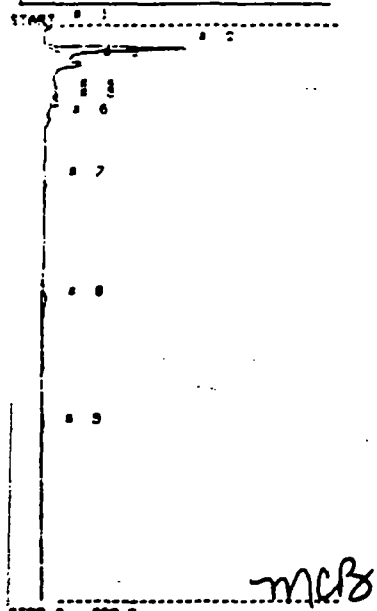


STOP @ 819.3
SAMPLE LIBRARY : APR 12 1994 8:51
ANALYSIS # 7 ROOM AIR
INTERNAL TEMP 18
GAIN 2 500 UL INJ

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 1 39.8 417.7 PUS

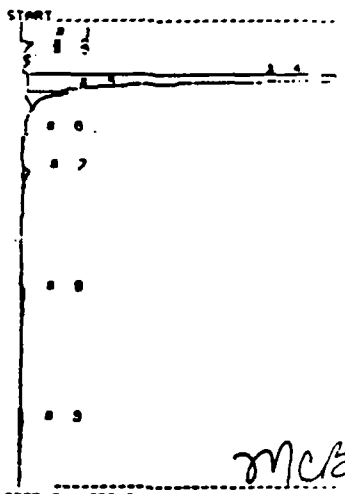
PHOTOVAC



STOP @ 388.0
SAMPLE LIBRARY : APR 12 1994 9:21
ANALYSIS # 8 ROOM AIR
INTERNAL TEMP 18
GAIN 2 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	2	38.8	2.6	US
UNKNOWN	3	62.3	287.0	PUS
UNKNOWN	5	173.6	273.3	PUS
UNKNOWN	8	440.0	251.0	PUS

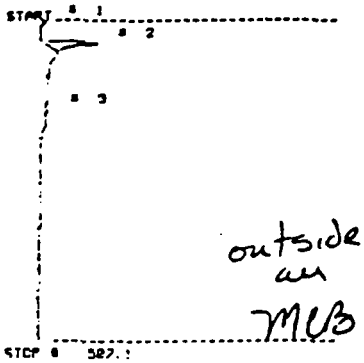
PHOTOVAC



STOP @ 722.9
SAMPLE LIBRARY : APR 12 1994 [illegible]
ANALYSIS # 6 TRANS-DCE
INTERNAL TEMP 18
GAIN 2 100 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	4	91.4	36.6	[illegible]
UNKNOWN	5	115.8	1.2	[illegible]
UNKNOWN	7	244.4	221.3	[illegible]
UNKNOWN	8	435.5	337.3	[illegible]
UNKNOWN	9	636.7	165.8	[illegible]

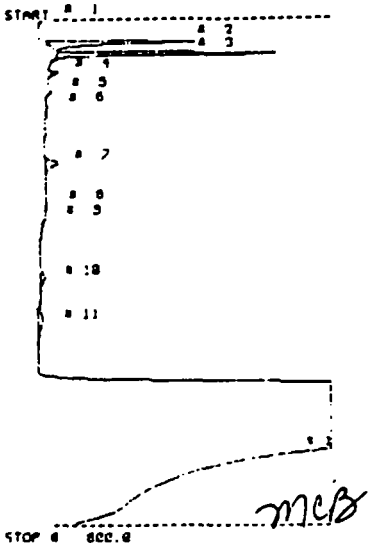
PHOTOVAC



STOP @ 507.1
SAMPLE LIBRARY : APR 11 1994 17:42
ANALYSIS # 2 AIR BLANK
INTERNAL TEMP 20
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	38.1	1.2 US

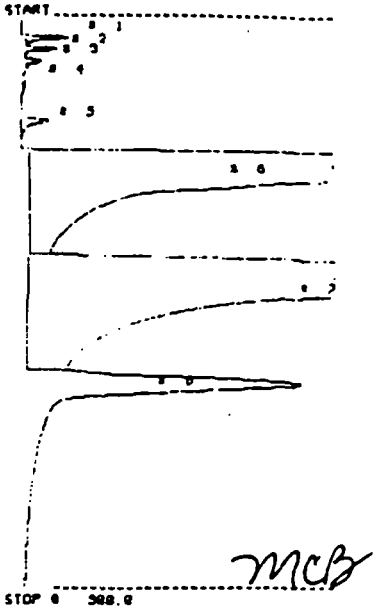
PHOTOVAC



STOP @ 600.0
SAMPLE LIBRARY : APR 11 1994 18:14
ANALYSIS # 3 PCE
INTERNAL TEMP 20
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	32.4	2.5 US
UNKNOWN	3	57.9	2.8 US
UNKNOWN	4	85.2	120.5 mUS
UNKNOWN	7	234.4	485.4 mUS
UNKNOWN	10	4[illegible]	260.4 mUS
UNKNOWN	11	468.8	320.0 mUS

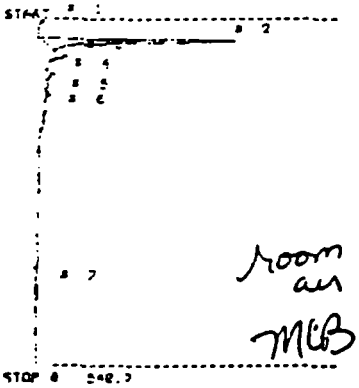
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY : APR 11 1994 [illegible]
ANALYSIS # 11 PCE, TCL, TCE
INTERNAL TEMP 20
GAIN 2 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	32.3	658.5 mUS
UNKNOWN	2	52.1	491.7 mUS
UNKNOWN	3	75.7	244.5 mUS
UNKNOWN	5	172.7	789.1 mUS
UNKNOWN	6	243.8	672.3 US
UNKNOWN	7	422.5	818.7 US

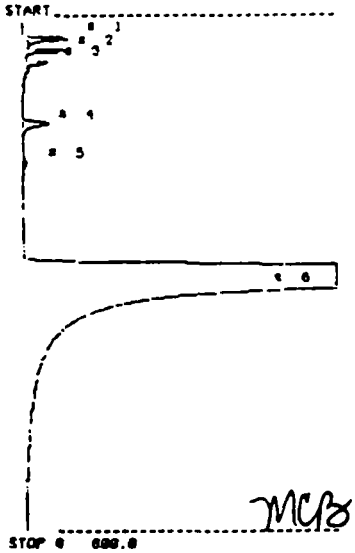
PHOTOVAC



STOP @ 542.3
SAMPLE LIBRARY : APR 11 1994 17:57
ANALYSIS # 2 AIR BLANK
INTERNAL TEMP 20
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	37.3	3.1 US
UNKNOWN	3	81.7	273.3 mUS
UNKNOWN	5	128.4	188.3 mUS

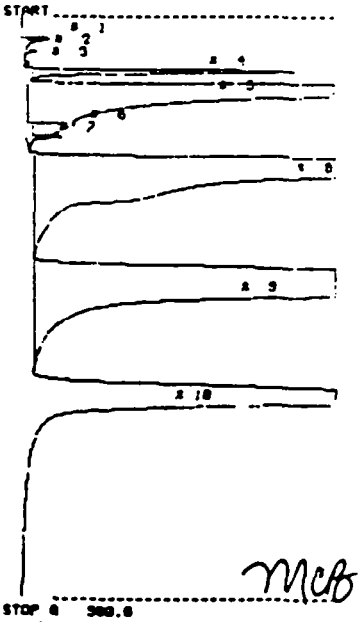
PHOTOVAC



STOP @ 600.0
SAMPLE LIBRARY : APR 11 1994 18:33
ANALYSIS # 10 PCE, TOLUENE
INTERNAL TEMP 20
GAIN 2 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	37.3	666.6 mUS
UNKNOWN	2	57.1	528.2 mUS
UNKNOWN	3	75.7	388.6 mUS
UNKNOWN	4	175.2	673.8 mUS
UNKNOWN	5	234.8	112.7 mUS

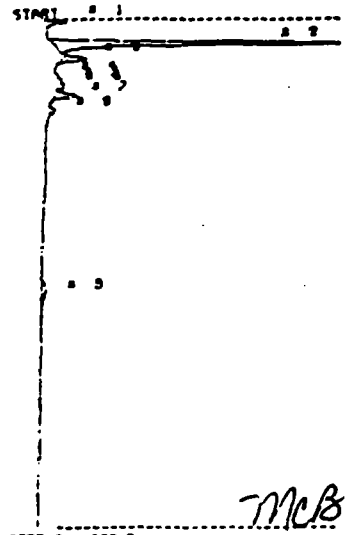
PHOTOVAC



STOP @ 500.0
SAMPLE LIBRARY : APR 11 1994 19:[illegible]
ANALYSIS # 12 PCE, TCL, TCE
INTERNAL TEMP 20 CIS-DCE
GAIN 2 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	36.3	135.2 mUS
UNKNOWN	4	87.4	5.1 US
UNKNOWN	5	115.4	131.4 US
UNKNOWN	6	178.7	2.3 US
UNKNOWN	7	191.2	649.2 mUS
UNKNOWN	8	232.2	317.8 US
UNKNOWN	9	416.2	464.7 US

PHOTOVAC

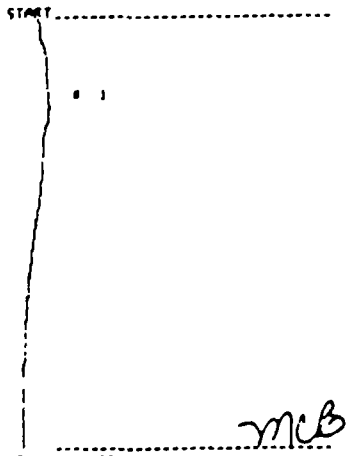


MCB

STOP @ 800.0
SAMPLE LIBRARY 1 APR 11 1994 16:17
ANALYSIS # 1 AIR BLANK
INTERNAL TEMP 12
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	2	42.6	6.3	VS
UNKNOWN	3	65.7	491.4	mVS
UNKNOWN	7	107.2	561.2	mVS
UNKNOWN	8	152.6	151.8	mVS
UNKNOWN	9	438.6	288.0	mVS

PHOTOVAC

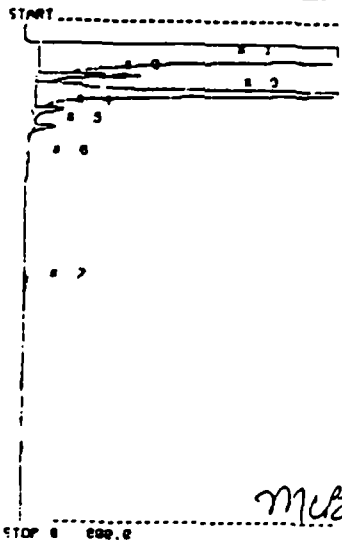


MCB

STOP @ 679.9
SAMPLE LIBRARY 1 APR 11 1994 16:32
ANALYSIS # 2 NO INJ
INTERNAL TEMP 12
GAIN 12

COMPOUND NAME PEAK R.T. AREA/PPM

PHOTOVAC

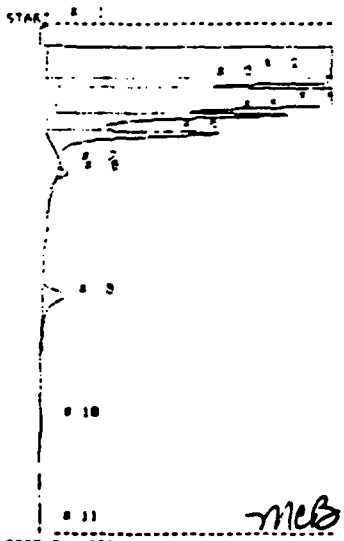


MCB

STOP @ 800.0
SAMPLE LIBRARY 1 APR 11 1994 17:07
ANALYSIS # 3 CIS, TRANS-DCE
INTERNAL TEMP 12
GAIN 2 232 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	1	38.9	177.1	VS
UNKNOWN	2	89.8	2.5	VS
UNKNOWN	3	113.8	22.7	VS
UNKNOWN	4	146.4	828.4	mVS
UNKNOWN	5	175.7	444.7	mVS
UNKNOWN	7	432.3	204.4	mVS

PHOTOVAC



MCB

STOP @ 800.0
SAMPLE LIBRARY 1 APR 11 1994 17:14
ANALYSIS # 4 CIS, TRANS-DCE
INTERNAL TEMP 12
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	2	68.6	496.9	VS
UNKNOWN	3	85.8	12.8	VS
UNKNOWN	4	117.7	187.7	VS
UNKNOWN	5	147.2	10.1	VS
UNKNOWN	6	176.2	6.8	VS
UNKNOWN	8	239.5	121.9	mVS
UNKNOWN	9	433.3	1.8	VS

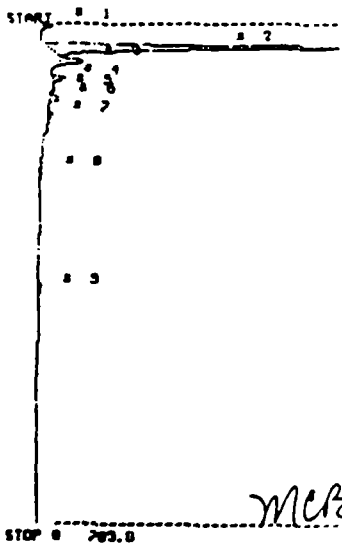
PHOTOVAC

MCB

STOP @ 800.0
SAMPLE LIBRARY 1 APR 11 1994 16:38
ANALYSIS # 2 AIR BLANK
INTERNAL TEMP 12
GAIN 10 500 UL INJ

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	2	37.9	5.5	VS
UNKNOWN	3	63.1	492.2	mVS
UNKNOWN	4	91.3	4.3	VS
UNKNOWN	6	173.6	370.8	mVS
UNKNOWN	7	149.2	181.7	mVS
UNKNOWN	8	243.7	1.3	VS
UNKNOWN	9	432.2	381.4	mVS

PHOTOVAC



MCB

STOP @ 783.0
SAMPLE LIBRARY 1 APR 11 1994 17:07
ANALYSIS # 6 ~~CIS, TRANS-DCE~~ all blank
INTERNAL TEMP 12
GAIN 10 ~~200 UL INJ~~ 500 ul

COMPOUND NAME	PEAK	R.T.	AREA/PPM	
UNKNOWN	2	37.5	6.7	VS
UNKNOWN	3	61.1	557.6	mVS
UNKNOWN	4	89.2	250.0	mVS
UNKNOWN	6	138.8	212.8	mVS
UNKNOWN	8	423.4	141.8	mVS

TABLE D-1
FIELD GC RESULTS
BROCKWAY STANDARD
HOMERVILLE, GEORGIA

	T-DCE (ppb)	C-DCE (ppb)	TCE (ppb)	TOLUENE (ppb)	PCE (ppb)	LAB?
DETECTION LIMIT	5	5	5	5	5	
LOCATION						
SURFACE SOILS/SEDIMENTS						
VSB-1	ND	ND	ND	ND	ND	X
VSB-2	ND	ND	ND	ND	ND	X
VSB-3	46	ND	5.5	ND	ND	
VSB-4	39	ND	ND	ND	ND	
VSB-5	50	ND	ND	ND	ND	
VSB-6	19	ND	ND	ND	ND	
VSS-1	36	ND	ND	9.6	5.6	
VSS-2	ND	ND	ND	33	ND	
VSS-3	64	ND	ND	ND	ND	
VSS-4	47	ND	ND	ND	ND	

NOTES: Results are for water samples unless otherwise indicated.
T-DCE = trans-1,2-dichloroethene
C-DCE = cis-1,2-dichloroethene
TCE = trichloroethene
PCE = tetrachloroethene
ND = not detected
BDL = detected but below detection limits
AB = duplicate samples

FN: D-1.WK1\943-3627\JAJ

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-7
ACL Sample No.: 82696
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: ----
Date Analyzed: 04-27-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
5-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
08-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

BDL = Below Detection Limit

2u.

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P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: Production Well
ACL Sample No.: 82697
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: ----
Date Analyzed: 04-21-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

BDL = Below Detection Limit

2a.

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-10
ACL Sample No.: 82698
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: ----
Date Analyzed: 04-22-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	14	10
75-00-3	Chloroethane	11	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	307	5
75-34-3	1,1-Dichloroethane	283	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	3J	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	72	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	12	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	4J	5
156-59-2	cis-1,2-Dichloroethene	15	5

BDL = Below Detection Limit

2a

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-9
ACL Sample No.: 82699
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: ----
Date Analyzed: 04-22-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	12	10
75-00-3	Chloroethane	17	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	393	5
75-34-3	1,1-Dichloroethane	337	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	3J	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	28	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	97	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	9	5
156-59-2	cis-1,2-Dichloroethene	12	5

BDL = Below Detection Limit

2a

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-11
ACL Sample No.: 82700
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: ----
Date Analyzed: 04-23-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	50
74-83-9	Bromomethane	BDL	50
5-01-4	Vinyl Chloride	BDL	50
75-00-3	Chloroethane	BDL	50
75-09-2	Methylene Chloride	BDL	25
67-64-1	Acetone	BDL	500
75-15-0	Carbon Disulfide	BDL	25
75-35-4	1,1-Dichloroethene	3250	25
75-34-3	1,1-Dichloroethane	199	25
156-60-5	trans-1,2-Dichloroethene	BDL	25
67-66-3	Chloroform	BDL	25
107-06-2	1,2-Dichloroethane	19J	25
78-93-3	2-Butanone	BDL	500
71-55-6	1,1,1-Trichloroethane	2670	25
56-23-5	Carbon Tetrachloride	BDL	25
108-05-4	Vinyl Acetate	BDL	250
75-27-4	Bromodichloromethane	BDL	25
78-87-5	1,2-Dichloropropane	BDL	25
10061-01-5	cis-1,3-Dichloropropene	BDL	25
79-01-6	Trichloroethene	639	25
124-48-1	Dibromochloromethane	BDL	25
79-00-5	1,1,2-Trichloroethane	15J	25
71-43-2	Benzene	BDL	25
10061-02-6	trans-1,3-Dichloropropene	BDL	25
75-25-2	Bromoform	BDL	25
108-10-1	4-Methyl-2-Pentanone	BDL	250
591-78-6	2-Hexanone	BDL	250
127-18-4	Tetrachloroethene	8J	25
)-34-5	1,1,2,2-Tetrachloroethane	BDL	25
108-88-3	Toluene	107	25
108-90-7	Chlorobenzene	BDL	25
100-41-4	Ethylbenzene	BDL	25
100-42-5	Styrene	BDL	25
1330-20-7	Xylenes (total)	BDL	25
156-59-2	cis-1,2-Dichloroethene	118	25

2a

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-3A
ACL Sample No.: 82701
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: ----
Date Analyzed: 04-23-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	125
74-83-9	Bromomethane	BDL	125
75-01-4	Vinyl Chloride	550	125
75-00-3	Chloroethane	BDL	125
75-09-2	Methylene Chloride	BDL	63
67-64-1	Acetone	BDL	1250
75-15-0	Carbon Disulfide	BDL	63
75-35-4	1,1-Dichloroethene	6210	63
75-34-3	1,1-Dichloroethane	1060	63
156-60-5	trans-1,2-Dichloroethene	BDL	63
67-66-3	Chloroform	BDL	63
107-06-2	1,2-Dichloroethane	38J	63
78-93-3	2-Butanone	496J	1250
71-55-6	1,1,1-Trichloroethane	135	63
56-23-5	Carbon Tetrachloride	BDL	63
108-05-4	Vinyl Acetate	BDL	625
75-27-4	Bromodichloromethane	BDL	63
78-87-5	1,2-Dichloropropane	BDL	63
10061-01-5	cis-1,3-Dichloropropene	BDL	63
79-01-6	Trichloroethene	253	63
124-48-1	Dibromochloromethane	BDL	63
79-00-5	1,1,2-Trichloroethane	BDL	63
71-43-2	Benzene	BDL	63
10061-02-6	trans-1,3-Dichloropropene	BDL	63
75-25-2	Bromoform	BDL	63
108-10-1	4-Methyl-2-Pentanone	BDL	625
591-78-6	2-Hexanone	BDL	625
127-18-4	Tetrachloroethene	BDL	63
79-34-5	1,1,2,2-Tetrachloroethane	BDL	63
108-88-3	Toluene	196	63
108-90-7	Chlorobenzene	BDL	63
100-41-4	Ethylbenzene	58J	63
100-42-5	Styrene	BDL	63
1330-20-7	Xylenes (total)	2360	63
156-59-2	cis-1,2-Dichloroethene	1530	63

2a.

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-8
ACL Sample No.: 82702
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-20-94
Date Extracted: ----
Date Analyzed: 04-23-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	25
74-83-9	Bromomethane	BDL	25
75-01-4	Vinyl Chloride	35	25
75-00-3	Chloroethane	BDL	25
75-09-2	Methylene Chloride	BDL	13
67-64-1	Acetone	BDL	250
75-15-0	Carbon Disulfide	BDL	13
75-35-4	1,1-Dichloroethene	783	13
75-34-3	1,1-Dichloroethane	118	13
156-60-5	trans-1,2-Dichloroethene	BDL	13
67-66-3	Chloroform	BDL	13
107-06-2	1,2-Dichloroethane	BDL	13
78-93-3	2-Butanone	BDL	250
71-55-6	1,1,1-Trichloroethane	BDL	13
56-23-5	Carbon Tetrachloride	BDL	13
108-05-4	Vinyl Acetate	BDL	125
75-27-4	Bromodichloromethane	BDL	13
78-87-5	1,2-Dichloropropane	BDL	13
10061-01-5	cis-1,3-Dichloropropene	BDL	13
79-01-6	Trichloroethene	153	13
124-48-1	Dibromochloromethane	BDL	13
79-00-5	1,1,2-Trichloroethane	BDL	13
71-43-2	Benzene	BDL	13
10061-02-6	trans-1,3-Dichloropropene	BDL	13
75-25-2	Bromoform	BDL	13
108-10-1	4-Methyl-2-Pentanone	BDL	125
591-78-6	2-Hexanone	BDL	125
127-18-4	Tetrachloroethene	BDL	13
79-34-5	1,1,2,2-Tetrachloroethane	BDL	13
108-88-3	Toluene	BDL	13
108-90-7	Chlorobenzene	BDL	13
100-41-4	Ethylbenzene	BDL	13
100-42-5	Styrene	BDL	13
1330-20-7	Xylenes (total)	BDL	13
156-59-2	cis-1,2-Dichloroethene	60	13

2a-

BDL = Below Detection Limit

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: VSS-4
ACL Sample No.: 82706
Matrix: Soil
ACL Project No.: 15880
Date Sampled: 04-20-94
Date Extracted: ----
Date Analyzed: 04-25-94

CAS NO.	COMPOUND	RESULT (µg/kg)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

BDL = Below Detection Limit

2a.

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: VSS-1
ACL Sample No.: 82707
Matrix: Soil
ACL Project No.: 15880
Date Sampled: 04-20-94
Date Extracted: ----
Date Analyzed: 04-25-94

CAS NO.	COMPOUND	RESULT (µg/kg)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

BDL = Below Detection Limit

2a.

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: DD-1
ACL Sample No.: 82693
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
108-95-2	Phenol	BDL	10
95-57-8	2-Chlorophenol	BDL	10
95-48-7	2-Methylphenol	BDL	10
106-44-5	4-Methylphenol	BDL	10
88-75-5	2-Nitrophenol	BDL	10
105-67-9	2,4-Dimethylphenol	BDL	10
65-85-0	Benzoic acid	BDL	50
120-83-2	2,4-Dichlorophenol	BDL	10
59-50-7	4-Chloro-3-methylphenol	BDL	20
88-06-2	2,4,6-Trichlorophenol	BDL	10
95-95-4	2,4,5-Trichlorophenol	BDL	10
51-28-5	2,4-Dinitrophenol	BDL	50
100-02-7	4-Nitrophenol	BDL	50
534-52-1	4,6-Dinitro-2-methylphenol	BDL	50
87-86-5	Pentachlorophenol	BDL	50

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

2a

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: DD-1
ACL Sample No.: 82693
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	10
541-73-1	1,3-Dichlorobenzene	BDL	10
106-46-7	1,4-Dichlorobenzene	BDL	10
100-51-6	Benzyl alcohol	BDL	20
95-50-1	1,2-Dichlorobenzene	BDL	10
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	10
621-64-7	N-Nitroso-di-n-propylamine	BDL	10
67-72-1	Hexachloroethane	BDL	10
98-95-3	Nitrobenzene	BDL	10
78-59-1	Isophorone	BDL	10
111-91-1	bis(2-Chloroethoxy)methane	BDL	10
120-82-1	1,2,4-Trichlorobenzene	BDL	10
91-20-3	Naphthalene	BDL	10
106-47-8	4-Chloroaniline	BDL	20
87-68-3	Hexachlorobutadiene	BDL	10
91-57-6	2-Methylnaphthalene	BDL	10
77-47-4	Hexachlorocyclopentadiene	BDL	10
91-58-7	2-Chloronaphthalene	BDL	10
88-74-4	2-Nitroaniline	BDL	50
131-11-3	Dimethyl phthalate	BDL	10
208-96-8	Acenaphthylene	BDL	10
606-20-2	2,6-Dinitrotoluene	BDL	10
99-09-2	3-Nitroaniline	BDL	50
83-32-9	Acenaphthene	BDL	10
132-64-9	Dibenzofuran	BDL	10
121-14-2	2,4-Dinitrotoluene	BDL	10
84-66-2	Diethyl phthalate	BDL	10
7005-72-3	4-Chlorophenyl phenyl ether	BDL	10
86-73-7	Fluorene	BDL	10
100-01-6	4-Nitroaniline	BDL	50
86-30-6	N-Nitrosodiphenylamine	BDL	10
101-55-3	4-Bromophenyl phenyl ether	BDL	10
118-74-1	Hexachlorobenzene	BDL	10
85-01-8	Phenanthrene	BDL	10

BDL = Below Detection Limit

2a.

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ADVANCED CHEMISTRY LABS, INC.

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BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: DD-1
ACL Sample No.: 82693
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
120-12-7	Anthracene	BDL	10
84-74-2	Di-n-butyl phthalate	BDL	10
206-44-0	Fluoranthene	BDL	10
129-00-0	Pyrene	BDL	10
85-68-7	Butyl benzyl phthalate	BDL	10
91-94-1	3,3'-Dichlorobenzidine	BDL	20
56-55-3	Benzo(a)anthracene	BDL	10
218-01-9	Chrysene	BDL	10
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	10
117-84-0	Di-n-octyl phthalate	BDL	10
205-99-2	Benzo(b)fluoranthene	BDL	10
207-08-9	Benzo(k)fluoranthene	BDL	10
50-32-8	Benzo(a)pyrene	BDL	10
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	10
53-70-3	Dibenz(a,h)anthracene	BDL	10
191-24-2	Benzo(g,h,i)perylene	BDL	10

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-12
ACL Sample No.: 82694
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
108-95-2	Phenol	BDL	10
95-57-8	2-Chlorophenol	BDL	10
95-48-7	2-Methylphenol	BDL	10
106-44-5	4-Methylphenol	BDL	10
88-75-5	2-Nitrophenol	BDL	10
105-67-9	2,4-Dimethylphenol	BDL	10
65-85-0	Benzoic acid	BDL	50
120-83-2	2,4-Dichlorophenol	BDL	10
59-50-7	4-Chloro-3-methylphenol	BDL	20
88-06-2	2,4,6-Trichlorophenol	BDL	10
95-95-4	2,4,5-Trichlorophenol	BDL	10
51-28-5	2,4-Dinitrophenol	BDL	50
100-02-7	4-Nitrophenol	BDL	50
534-52-1	4,6-Dinitro-2-methylphenol	BDL	50
87-86-5	Pentachlorophenol	BDL	50

BDL = Below Detection Limit
Less Than Detection Limit, Approximate Value

2a.

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P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-12
ACL Sample No.: 82694
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	10
541-73-1	1,3-Dichlorobenzene	BDL	10
106-46-7	1,4-Dichlorobenzene	BDL	10
100-51-6	Benzyl alcohol	BDL	20
95-50-1	1,2-Dichlorobenzene	BDL	10
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	10
621-64-7	N-Nitroso-di-n-propylamine	BDL	10
67-72-1	Hexachloroethane	BDL	10
98-95-3	Nitrobenzene	BDL	10
78-59-1	Isophorone	BDL	10
111-91-1	bis(2-Chloroethoxy)methane	BDL	10
120-82-1	1,2,4-Trichlorobenzene	BDL	10
91-20-3	Naphthalene	BDL	10
106-47-8	4-Chloroaniline	BDL	20
87-68-3	Hexachlorobutadiene	BDL	10
91-57-6	2-Methylnaphthalene	BDL	10
77-47-4	Hexachlorocyclopentadiene	BDL	10
91-58-7	2-Chloronaphthalene	BDL	10
88-74-4	2-Nitroaniline	BDL	50
131-11-3	Dimethyl phthalate	BDL	10
208-96-8	Acenaphthylene	BDL	10
606-20-2	2,6-Dinitrotoluene	BDL	10
99-09-2	3-Nitroaniline	BDL	50
83-32-9	Acenaphthene	BDL	10
132-64-9	Dibenzofuran	BDL	10
121-14-2	2,4-Dinitrotoluene	BDL	10
84-66-2	Diethyl phthalate	BDL	10
7005-72-3	4-Chlorophenyl phenyl ether	BDL	10
86-73-7	Fluorene	BDL	10
100-01-6	4-Nitroaniline	BDL	50
86-30-6	N-Nitrosodiphenylamine	BDL	10
101-55-3	4-Bromophenyl phenyl ether	BDL	10
118-74-1	Hexachlorobenzene	BDL	10
85-01-8	Phenanthrene	BDL	10

BDL = Below Detection Limit

2a

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-12
ACL Sample No.: 82694
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
120-12-7	Anthracene	BDL	10
84-74-2	Di-n-butyl phthalate	BDL	10
206-44-0	Fluoranthene	BDL	10
129-00-0	Pyrene	BDL	10
85-68-7	Butyl benzyl phthalate	BDL	10
91-94-1	3,3'-Dichlorobenzidine	BDL	20
56-55-3	Benzo(a)anthracene	BDL	10
218-01-9	Chrysene	BDL	10
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	10
117-84-0	Di-n-octyl phthalate	BDL	10
205-99-2	Benzo(b)fluoranthene	BDL	10
207-08-9	Benzo(k)fluoranthene	BDL	10
50-32-8	Benzo(a)pyrene	BDL	10
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	10
53-70-3	Dibenz(a,h)anthracene	BDL	10
191-24-2	Benzo(g,h,i)perylene	BDL	10

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

2a.

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-7
ACL Sample No.: 82696
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
108-95-2	Phenol	BDL	10
95-57-8	2-Chlorophenol	BDL	10
95-48-7	2-Methylphenol	BDL	10
106-44-5	4-Methylphenol	BDL	10
88-75-5	2-Nitrophenol	BDL	10
105-67-9	2,4-Dimethylphenol	BDL	10
65-85-0	Benzoic acid	BDL	50
120-83-2	2,4-Dichlorophenol	BDL	10
59-50-7	4-Chloro-3-methylphenol	BDL	20
88-06-2	2,4,6-Trichlorophenol	BDL	10
95-95-4	2,4,5-Trichlorophenol	BDL	10
51-28-5	2,4-Dinitrophenol	BDL	50
100-02-7	4-Nitrophenol	BDL	50
534-52-1	4,6-Dinitro-2-methylphenol	BDL	50
87-86-5	Pentachlorophenol	BDL	50

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

2

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P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-7
ACL Sample No.: 82696
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	10
541-73-1	1,3-Dichlorobenzene	BDL	10
106-46-7	1,4-Dichlorobenzene	BDL	10
100-51-6	Benzyl alcohol	BDL	20
95-50-1	1,2-Dichlorobenzene	BDL	10
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	10
621-64-7	N-Nitroso-di-n-propylamine	BDL	10
67-72-1	Hexachloroethane	BDL	10
98-95-3	Nitrobenzene	BDL	10
78-59-1	Isophorone	BDL	10
111-91-1	bis(2-Chloroethoxy)methane	BDL	10
120-82-1	1,2,4-Trichlorobenzene	BDL	10
91-20-3	Naphthalene	BDL	10
106-47-8	4-Chloroaniline	BDL	20
87-68-3	Hexachlorobutadiene	BDL	10
91-57-6	2-Methylnaphthalene	BDL	10
77-47-4	Hexachlorocyclopentadiene	BDL	10
91-58-7	2-Chloronaphthalene	BDL	10
88-74-4	2-Nitroaniline	BDL	50
131-11-3	Dimethyl phthalate	BDL	10
208-96-8	Acenaphthylene	BDL	10
606-20-2	2,6-Dinitrotoluene	BDL	10
99-09-2	3-Nitroaniline	BDL	50
83-32-9	Acenaphthene	BDL	10
132-64-9	Dibenzofuran	BDL	10
121-14-2	2,4-Dinitrotoluene	BDL	10
84-66-2	Diethyl phthalate	BDL	10
7005-72-3	4-Chlorophenyl phenyl ether	BDL	10
86-73-7	Fluorene	BDL	10
100-01-6	4-Nitroaniline	BDL	50
86-30-6	N-Nitrosodiphenylamine	BDL	10
101-55-3	4-Bromophenyl phenyl ether	BDL	10
118-74-1	Hexachlorobenzene	BDL	10
85-01-8	Phenanthrene	BDL	10

2a

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P.O. BOX 88610 • ATLANTA, GEORGIA 30356
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BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-7
ACL Sample No.: 82696
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
120-12-7	Anthracene	BDL	10
84-74-2	Di-n-butyl phthalate	BDL	10
206-44-0	Fluoranthene	BDL	10
129-00-0	Pyrene	BDL	10
85-68-7	Butyl benzyl phthalate	BDL	10
91-94-1	3,3'-Dichlorobenzidine	BDL	20
56-55-3	Benzo(a)anthracene	BDL	10
218-01-9	Chrysene	BDL	10
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	10
117-84-0	Di-n-octyl phthalate	BDL	10
205-99-2	Benzo(b)fluoranthene	BDL	10
207-08-9	Benzo(k)fluoranthene	BDL	10
50-32-8	Benzo(a)pyrene	BDL	10
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	10
53-70-3	Dibenz(a,h)anthracene	BDL	10
191-24-2	Benzo(g,h,i)perylene	BDL	10

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

2a.

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-10
ACL Sample No.: 82698
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
108-95-2	Phenol	BDL	10
95-57-8	2-Chlorophenol	BDL	10
95-48-7	2-Methylphenol	BDL	10
106-44-5	4-Methylphenol	BDL	10
88-75-5	2-Nitrophenol	BDL	10
105-67-9	2,4-Dimethylphenol	BDL	10
65-85-0	Benzoic acid	BDL	50
120-83-2	2,4-Dichlorophenol	BDL	10
59-50-7	4-Chloro-3-methylphenol	BDL	20
88-06-2	2,4,6-Trichlorophenol	BDL	10
95-95-4	2,4,5-Trichlorophenol	BDL	10
51-28-5	2,4-Dinitrophenol	BDL	50
100-02-7	4-Nitrophenol	BDL	50
534-52-1	4,6-Dinitro-2-methylphenol	BDL	50
87-86-5	Pentachlorophenol	BDL	50

BDL = Below Detection Limit
= Less Than Detection Limit, Approximate Value

2a.

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-10
ACL Sample No.: 82698
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	10
541-73-1	1,3-Dichlorobenzene	BDL	10
106-46-7	1,4-Dichlorobenzene	BDL	10
100-51-6	Benzyl alcohol	BDL	20
95-50-1	1,2-Dichlorobenzene	BDL	10
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	10
621-64-7	N-Nitroso-di-n-propylamine	BDL	10
67-72-1	Hexachloroethane	BDL	10
98-95-3	Nitrobenzene	BDL	10
78-59-1	Isophorone	BDL	10
111-91-1	bis(2-Chloroethoxy)methane	BDL	10
120-82-1	1,2,4-Trichlorobenzene	BDL	10
91-20-3	Naphthalene	BDL	10
106-47-8	4-Chloroaniline	BDL	20
87-68-3	Hexachlorobutadiene	BDL	10
91-57-6	2-Methylnaphthalene	BDL	10
77-47-4	Hexachlorocyclopentadiene	BDL	10
91-58-7	2-Chloronaphthalene	BDL	10
88-74-4	2-Nitroaniline	BDL	50
131-11-3	Dimethyl phthalate	BDL	10
208-96-8	Acenaphthylene	BDL	10
606-20-2	2,6-Dinitrotoluene	BDL	10
99-09-2	3-Nitroaniline	BDL	50
83-32-9	Acenaphthene	BDL	10
132-64-9	Dibenzofuran	BDL	10
121-14-2	2,4-Dinitrotoluene	BDL	10
84-66-2	Diethyl phthalate	BDL	10
7005-72-3	4-Chlorophenyl phenyl ether	BDL	10
86-73-7	Fluorene	BDL	10
100-01-6	4-Nitroaniline	BDL	50
86-30-6	N-Nitrosodiphenylamine	BDL	10
101-55-3	4-Bromophenyl phenyl ether	BDL	10
118-74-1	Hexachlorobenzene	BDL	10
85-01-8	Phenanthrene	BDL	10

2a

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P.O. BOX 88610 • ATLANTA, GEORGIA 30356
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BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-10
ACL Sample No.: 82698
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
120-12-7	Anthracene	BDL	10
84-74-2	Di-n-butyl phthalate	BDL	10
206-44-0	Fluoranthene	BDL	10
129-00-0	Pyrene	BDL	10
85-68-7	Butyl benzyl phthalate	BDL	10
91-94-1	3,3'-Dichlorobenzidine	BDL	20
56-55-3	Benzo(a)anthracene	BDL	10
218-01-9	Chrysene	BDL	10
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	10
117-84-0	Di-n-octyl phthalate	BDL	10
205-99-2	Benzo(b)fluoranthene	BDL	10
207-08-9	Benzo(k)fluoranthene	BDL	10
50-32-8	Benzo(a)pyrene	BDL	10
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	10
53-70-3	Dibenz(a,h)anthracene	BDL	10
191-24-2	Benzo(g,h,i)perylene	BDL	10

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

2a.

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-11
ACL Sample No.: 82700
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
108-95-2	Phenol	BDL	10
95-57-8	2-Chlorophenol	BDL	10
95-48-7	2-Methylphenol	BDL	10
106-44-5	4-Methylphenol	BDL	10
88-75-5	2-Nitrophenol	BDL	10
105-67-9	2,4-Dimethylphenol	BDL	10
65-85-0	Benzoic acid	BDL	50
120-83-2	2,4-Dichlorophenol	BDL	10
59-50-7	4-Chloro-3-methylphenol	BDL	20
88-06-2	2,4,6-Trichlorophenol	BDL	10
95-95-4	2,4,5-Trichlorophenol	BDL	10
51-28-5	2,4-Dinitrophenol	BDL	50
100-02-7	4-Nitrophenol	BDL	50
534-52-1	4,6-Dinitro-2-methylphenol	BDL	50
87-86-5	Pentachlorophenol	BDL	50

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

2a.

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-11
ACL Sample No.: 82700
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	10
541-73-1	1,3-Dichlorobenzene	BDL	10
106-46-7	1,4-Dichlorobenzene	BDL	10
100-51-6	Benzyl alcohol	BDL	20
95-50-1	1,2-Dichlorobenzene	BDL	10
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	10
621-64-7	N-Nitroso-di-n-propylamine	BDL	10
67-72-1	Hexachloroethane	BDL	10
98-95-3	Nitrobenzene	BDL	10
78-59-1	Isophorone	BDL	10
111-91-1	bis(2-Chloroethoxy)methane	BDL	10
120-82-1	1,2,4-Trichlorobenzene	BDL	10
91-20-3	Naphthalene	BDL	10
106-47-8	4-Chloroaniline	BDL	20
87-68-3	Hexachlorobutadiene	BDL	10
91-57-6	2-Methylnaphthalene	BDL	10
77-47-4	Hexachlorocyclopentadiene	BDL	10
91-58-7	2-Chloronaphthalene	BDL	10
88-74-4	2-Nitroaniline	BDL	50
131-11-3	Dimethyl phthalate	BDL	10
208-96-8	Acenaphthylene	BDL	10
606-20-2	2,6-Dinitrotoluene	BDL	10
99-09-2	3-Nitroaniline	BDL	50
83-32-9	Acenaphthene	BDL	10
132-64-9	Dibenzofuran	BDL	10
121-14-2	2,4-Dinitrotoluene	BDL	10
84-66-2	Diethyl phthalate	BDL	10
7005-72-3	4-Chlorophenyl phenyl ether	BDL	10
86-73-7	Fluorene	BDL	10
100-01-6	4-Nitroaniline	BDL	50
86-30-6	N-Nitrosodiphenylamine	BDL	10
101-55-3	4-Bromophenyl phenyl ether	BDL	10
118-74-1	Hexachlorobenzene	BDL	10
85-01-8	Phenanthrene	BDL	10

2a.

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-11
ACL Sample No.: 82700
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
120-12-7	Anthracene	BDL	10
84-74-2	Di-n-butyl phthalate	BDL	10
206-44-0	Fluoranthene	BDL	10
129-00-0	Pyrene	BDL	10
85-68-7	Butyl benzyl phthalate	BDL	10
91-94-1	3,3'-Dichlorobenzidine	BDL	20
56-55-3	Benzo(a)anthracene	BDL	10
218-01-9	Chrysene	BDL	10
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	10
117-84-0	Di-n-octyl phthalate	BDL	10
205-99-2	Benzo(b)fluoranthene	BDL	10
207-08-9	Benzo(k)fluoranthene	BDL	10
50-32-8	Benzo(a)pyrene	BDL	10
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	10
53-70-3	Dibenz(a,h)anthracene	BDL	10
191-24-2	Benzo(g,h,i)perylene	BDL	10

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

2a

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-8
ACL Sample No.: 82702
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-20-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
108-95-2	Phenol	BDL	10
95-57-8	2-Chlorophenol	BDL	10
95-48-7	2-Methylphenol	BDL	10
106-44-5	4-Methylphenol	BDL	10
88-75-5	2-Nitrophenol	BDL	10
105-67-9	2,4-Dimethylphenol	BDL	10
65-85-0	Benzoic acid	BDL	50
120-83-2	2,4-Dichlorophenol	BDL	10
59-50-7	4-Chloro-3-methylphenol	BDL	20
88-06-2	2,4,6-Trichlorophenol	BDL	10
95-95-4	2,4,5-Trichlorophenol	BDL	10
51-28-5	2,4-Dinitrophenol	BDL	50
100-02-7	4-Nitrophenol	BDL	50
534-52-1	4,6-Dinitro-2-methylphenol	BDL	50
87-86-5	Pentachlorophenol	BDL	50

BDL = Below Detection Limit
( ) Less Than Detection Limit, Approximate Value

2a.

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-8
ACL Sample No.: 82702
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-20-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	10
541-73-1	1,3-Dichlorobenzene	BDL	10
106-46-7	1,4-Dichlorobenzene	BDL	10
100-51-6	Benzyl alcohol	BDL	20
95-50-1	1,2-Dichlorobenzene	BDL	10
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	10
621-64-7	N-Nitroso-di-n-propylamine	BDL	10
67-72-1	Hexachloroethane	BDL	10
98-95-3	Nitrobenzene	BDL	10
78-59-1	Isophorone	BDL	10
111-91-1	bis(2-Chloroethoxy)methane	BDL	10
120-82-1	1,2,4-Trichlorobenzene	BDL	10
91-20-3	Naphthalene	BDL	10
106-47-8	4-Chloroaniline	BDL	20
87-68-3	Hexachlorobutadiene	BDL	10
91-57-6	2-Methylnaphthalene	BDL	10
77-47-4	Hexachlorocyclopentadiene	BDL	10
91-58-7	2-Chloronaphthalene	BDL	10
88-74-4	2-Nitroaniline	BDL	50
131-11-3	Dimethyl phthalate	BDL	10
208-96-8	Acenaphthylene	BDL	10
606-20-2	2,6-Dinitrotoluene	BDL	10
99-09-2	3-Nitroaniline	BDL	50
83-32-9	Acenaphthene	BDL	10
132-64-9	Dibenzofuran	BDL	10
121-14-2	2,4-Dinitrotoluene	BDL	10
84-66-2	Diethyl phthalate	BDL	10
7005-72-3	4-Chlorophenyl phenyl ether	BDL	10
86-73-7	Fluorene	BDL	10
100-01-6	4-Nitroaniline	BDL	50
86-30-6	N-Nitrosodiphenylamine	BDL	10
101-55-3	4-Bromophenyl phenyl ether	BDL	10
118-74-1	Hexachlorobenzene	BDL	10
85-01-8	Phenanthrene	BDL	10

2a.

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: MW-8
ACL Sample No.: 82702
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-20-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
120-12-7	Anthracene	BDL	10
84-74-2	Di-n-butyl phthalate	BDL	10
206-44-0	Fluoranthene	BDL	10
129-00-0	Pyrene	BDL	10
85-68-7	Butyl benzyl phthalate	BDL	10
91-94-1	3,3'-Dichlorobenzidine	BDL	20
56-55-3	Benzo(a)anthracene	BDL	10
218-01-9	Chrysene	BDL	10
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	10
117-84-0	Di-n-octyl phthalate	BDL	10
205-99-2	Benzo(b)fluoranthene	BDL	10
207-08-9	Benzo(k)fluoranthene	BDL	10
50-32-8	Benzo(a)pyrene	BDL	10
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	10
53-70-3	Dibenz(a,h)anthracene	BDL	10
191-24-2	Benzo(g,h,i)perylene	BDL	10

BDL = Below Detection Limit
= Less Than Detection Limit, Approximate Value

2a.

ACL

ADVANCED CHEMISTRY LABS, INC.

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TELEPHONE (404) 409-1444

ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: Lagoon
ACL Sample No.: 82703
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
108-95-2	Phenol	BDL	10
95-57-8	2-Chlorophenol	BDL	10
95-48-7	2-Methylphenol	BDL	10
106-44-5	4-Methylphenol	BDL	10
88-75-5	2-Nitrophenol	BDL	10
105-67-9	2,4-Dimethylphenol	BDL	10
65-85-0	Benzoic acid	BDL	50
120-83-2	2,4-Dichlorophenol	BDL	10
59-50-7	4-Chloro-3-methylphenol	BDL	20
88-06-2	2,4,6-Trichlorophenol	BDL	10
95-95-4	2,4,5-Trichlorophenol	BDL	10
51-28-5	2,4-Dinitrophenol	BDL	50
100-02-7	4-Nitrophenol	BDL	50
534-52-1	4,6-Dinitro-2-methylphenol	BDL	50
87-86-5	Pentachlorophenol	BDL	50

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

2a-

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: Lagoon
ACL Sample No.: 82703
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	10
541-73-1	1,3-Dichlorobenzene	BDL	10
106-46-7	1,4-Dichlorobenzene	BDL	10
100-51-6	Benzyl alcohol	BDL	20
95-50-1	1,2-Dichlorobenzene	BDL	10
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	10
621-64-7	N-Nitroso-di-n-propylamine	BDL	10
67-72-1	Hexachloroethane	BDL	10
98-95-3	Nitrobenzene	BDL	10
78-59-1	Isophorone	BDL	10
111-91-1	bis(2-Chloroethoxy)methane	BDL	10
120-82-1	1,2,4-Trichlorobenzene	BDL	10
91-20-3	Naphthalene	BDL	10
106-47-8	4-Chloroaniline	BDL	20
87-68-3	Hexachlorobutadiene	BDL	10
91-57-6	2-Methylnaphthalene	BDL	10
77-47-4	Hexachlorocyclopentadiene	BDL	10
91-58-7	2-Chloronaphthalene	BDL	10
88-74-4	2-Nitroaniline	BDL	50
131-11-3	Dimethyl phthalate	BDL	10
208-96-8	Acenaphthylene	BDL	10
606-20-2	2,6-Dinitrotoluene	BDL	10
99-09-2	3-Nitroaniline	BDL	50
83-32-9	Acenaphthene	BDL	10
132-64-9	Dibenzofuran	BDL	10
121-14-2	2,4-Dinitrotoluene	BDL	10
84-66-2	Diethyl phthalate	BDL	10
7005-72-3	4-Chlorophenyl phenyl ether	BDL	10
86-73-7	Fluorene	BDL	10
100-01-6	4-Nitroaniline	BDL	50
86-30-6	N-Nitrosodiphenylamine	BDL	10
101-55-3	4-Bromophenyl phenyl ether	BDL	10
118-74-1	Hexachlorobenzene	BDL	10
85-01-8	Phenanthrene	BDL	10

2a.

BDL = Below Detection Limit

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: Lagoon
ACL Sample No.: 82703
Matrix: Water
ACL Project No.: 15880
Date Sampled: 04-19-94
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
120-12-7	Anthracene	BDL	10
84-74-2	Di-n-butyl phthalate	BDL	10
206-44-0	Fluoranthene	BDL	10
129-00-0	Pyrene	BDL	10
85-68-7	Butyl benzyl phthalate	BDL	10
91-94-1	3,3'-Dichlorobenzidine	BDL	20
56-55-3	Benzo(a)anthracene	BDL	10
218-01-9	Chrysene	BDL	10
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	10
117-84-0	Di-n-octyl phthalate	BDL	10
205-99-2	Benzo(b)fluoranthene	BDL	10
207-08-9	Benzo(k)fluoranthene	BDL	10
50-32-8	Benzo(a)pyrene	BDL	10
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	10
53-70-3	Dibenz(a,h)anthracene	BDL	10
191-24-2	Benzo(g,h,i)perylene	BDL	10

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: VSS-4
ACL Sample No.: 82706
Matrix: Soil
ACL Project No.: 15880
Date Sampled: 04-20-94
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
108-95-2	Phenol	BDL	0.33
95-57-8	2-Chlorophenol	BDL	0.33
95-48-7	2-Methylphenol	BDL	0.33
106-44-5	4-Methylphenol	BDL	0.33
88-75-5	2-Nitrophenol	BDL	0.33
105-67-9	2,4-Dimethylphenol	BDL	0.33
65-85-0	Benzoic acid	BDL	1.65
120-83-2	2,4-Dichlorophenol	BDL	0.33
59-50-7	4-Chloro-3-methylphenol	BDL	0.66
88-06-2	2,4,6-Trichlorophenol	BDL	0.33
95-95-4	2,4,5-Trichlorophenol	BDL	0.33
51-28-5	2,4-Dinitrophenol	BDL	1.65
100-02-7	4-Nitrophenol	BDL	1.65
534-52-1	4,6-Dinitro-2-methylphenol	BDL	1.65
87-86-5	Pentachlorophenol	BDL	1.65

BDL = Below Detection Limit
= Less Than Detection Limit, Approximate Value

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BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: VSS-4
ACL Sample No.: 82706
Matrix: Soil
ACL Project No.: 15880
Date Sampled: 04-20-94
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	0.33
541-73-1	1,3-Dichlorobenzene	BDL	0.33
106-46-7	1,4-Dichlorobenzene	BDL	0.33
100-51-6	Benzyl alcohol	BDL	0.66
95-50-1	1,2-Dichlorobenzene	BDL	0.33
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	0.33
621-64-7	N-Nitroso-di-n-propylamine	BDL	0.33
67-72-1	Hexachloroethane	BDL	0.33
98-95-3	Nitrobenzene	BDL	0.33
78-59-1	Isophorone	BDL	0.33
111-91-1	bis(2-Chloroethoxy)methane	BDL	0.33
120-82-1	1,2,4-Trichlorobenzene	BDL	0.33
91-20-3	Naphthalene	BDL	0.33
106-47-8	4-Chloroaniline	BDL	0.66
87-68-3	Hexachlorobutadiene	BDL	0.33
91-57-6	2-Methylnaphthalene	BDL	0.33
77-47-4	Hexachlorocyclopentadiene	BDL	0.33
91-58-7	2-Chloronaphthalene	BDL	0.33
88-74-4	2-Nitroaniline	BDL	1.65
131-11-3	Dimethyl phthalate	BDL	0.33
208-96-8	Acenaphthylene	BDL	0.33
606-20-2	2,6-Dinitrotoluene	BDL	0.33
99-09-2	3-Nitroaniline	BDL	1.65
83-32-9	Acenaphthene	BDL	0.33
132-64-9	Dibenzofuran	BDL	0.33
121-14-2	2,4-Dinitrotoluene	BDL	0.33
84-66-2	Diethyl phthalate	BDL	0.33
7005-72-3	4-Chlorophenyl phenyl ether	BDL	0.33
86-73-7	Fluorene	BDL	0.33
100-01-6	4-Nitroaniline	BDL	1.65
86-30-6	N-Nitrosodiphenylamine	BDL	0.33
101-55-3	4-Bromophenyl phenyl ether	BDL	0.33
118-74-1	Hexachlorobenzene	BDL	0.33
85-01-8	Phenanthrene	BDL	0.33

BDL = Below Detection Limit

2a.

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ADVANCED CHEMISTRY LABS, INC.

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TELEPHONE (404) 409-1444

BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: VSS-4
ACL Sample No.: 82706
Matrix: Soil
ACL Project No.: 15880
Date Sampled: 04-20-94
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
120-12-7	Anthracene	BDL	0.33
84-74-2	Di-n-butyl phthalate	BDL	0.33
206-44-0	Fluoranthene	0.07J	0.33
129-00-0	Pyrene	0.11J	0.33
85-68-7	Butyl benzyl phthalate	BDL	0.33
91-94-1	3,3'-Dichlorobenzidine	BDL	0.66
56-55-3	Benzo(a)anthracene	BDL	0.33
218-01-9	Chrysene	0.08J	0.33
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	0.33
117-84-0	Di-n-octyl phthalate	BDL	0.33
205-99-2	Benzo(b)fluoranthene	0.09J	0.33
207-08-9	Benzo(k)fluoranthene	0.08J	0.33
50-32-8	Benzo(a)pyrene	BDL	0.33
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	0.33
53-70-3	Dibenz(a,h)anthracene	BDL	0.33
191-24-2	Benzo(g,h,i)perylene	BDL	0.33

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

2a.

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ADVANCED CHEMISTRY LABS, INC.

DR. STEVE N. TSOUKALAS
DIRECTOR

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 455-1266

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ANALYSIS	Station: HP-9 ACL #: 82689 Received: 04-21-94 Analyzed: 05-04-94 Matrix: Water Units: µg/liter	Station: MW-12 ACL #: 82694 Received: 04-21-94 Analyzed: 05-05-94 Matrix: Water Units: µg/liter	Station: MW-10 ACL #: 82698 Received: 04-21-94 Analyzed: 05-05-94 Matrix: Water Units: µg/liter
ORGANOCHLORINE PESTICIDES (METHOD 608/8080)			
Aldrin	< 0.2	< 0.2	< 0.2
α-BHC	< 0.2	< 0.2	< 0.2
β-BHC	< 0.2	< 0.2	< 0.2
δ-BHC	< 0.2	< 0.2	< 0.2
γ-BHC	< 0.2	< 0.2	< 0.2
Chlordane	< 0.4	< 0.4	< 0.4
4,4'DDD	< 0.2	< 0.2	< 0.2
4,4'DDE	< 0.2	< 0.2	< 0.2
4,4'DDT	< 0.2	< 0.2	< 0.2
Dieldrin	< 0.2	< 0.2	< 0.2
Endosulfan I	< 0.2	< 0.2	< 0.2
Endosulfan II	< 0.2	< 0.2	< 0.2
Endosulfan sulfate	< 0.2	< 0.2	< 0.2
Endrin	< 0.2	< 0.2	< 0.2
Endrin aldehyde	< 0.2	< 0.2	< 0.2
Heptachlor	< 0.2	< 0.2	< 0.2
Heptachlor epoxide	< 0.2	< 0.2	< 0.2
Methoxychlor	< 0.2	< 0.2	< 0.2
Toxaphene	< 4.0	< 4.0	< 4.0
PCBs (METHOD 608/8080)			
PCB-1016	< 3.0	< 3.0	< 3.0
PCB-1221	< 7.5	< 7.5	< 7.5
PCB-1232	< 3.0	< 3.0	< 3.0
PCB-1242	< 3.0	< 3.0	< 3.0
PCB-1248	< 1.5	< 1.5	< 1.5
PCB-1254	< 1.5	< 1.5	< 1.5
PCB-1260	< 1.5	< 1.5	< 1.5

2a

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ADVANCED CHEMISTRY LABS, INC.

DR. STEVE N. TSOUKALAS
DIRECTOR

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 455-1266

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ANALYSIS	Station: MW-8 ACL #: 82702 Received: 04-21-94 Analyzed: 05-05-94 Matrix: Water Units: µg/liter	Station: HP-9S ACL #: 82704 Received: 04-21-94 Analyzed: 05-05-94 Matrix: Soil Units: µg/kg	Station: ACL #: Received: Analyzed: Matrix: Units:
ORGANOCHLORINE PESTICIDES (METHOD 608/8080)			
Aldrin	< 0.2	< 2.0	
α-BHC	< 0.2	< 2.0	
β-BHC	< 0.2	< 2.0	
δ-BHC	< 0.2	< 2.0	
γ-BHC	< 0.2	< 2.0	
Chlordane	< 0.4	< 5.0	
4,4'DDD	< 0.2	< 2.0	
4,4'DDE	< 0.2	< 2.0	
4,4'DDT	< 0.2	< 2.0	
Dieldrin	< 0.2	< 2.0	
Endosulfan I	< 0.2	< 2.0	
Endosulfan II	< 0.2	< 2.0	
Endosulfan sulfate	< 0.2	< 2.0	
Endrin	< 0.2	< 2.0	
Endrin aldehyde	< 0.2	< 2.0	
Heptachlor	< 0.2	< 2.0	
Heptachlor epoxide	< 0.2	< 2.0	
Methoxychlor	< 0.2	< 2.0	
Toxaphene	< 4.0	< 50.0	
PCBs (METHOD 608/8080)			
PCB-1016	< 3.0	< 30	
PCB-1221	< 7.5	< 75	
PCB-1232	< 3.0	< 30	
PCB-1242	< 3.0	< 30	
PCB-1248	< 1.5	< 15	
PCB-1254	< 1.5	< 15	
PCB-1260	< 1.5	< 15	

2a.

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ADVANCED CHEMISTRY LABS, INC.

DR. STEVE N. TSOUKALAS
DIRECTOR

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 455-1266

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ANALYSIS	Station: DD-1 ACL #: 82693 Received: 04-21-94 Analyzed: 04-26-94 Matrix: Water Units: mg/liter	Station: MW-12 ACL #: 82694 Received: 04-21-94 Analyzed: 04-26-94 Matrix: Water Units: mg/liter	Station: MW-7 ACL #: 82696 Received: 04-21-94 Analyzed: 04-26-94 Matrix: Water Units: mg/liter
METALS — TAL	Dissolved Total X EP-Toxicity TCLP	Dissolved Total X EP-Toxicity TCLP	Dissolved Total X EP-Toxicity TCLP
Aluminum	< 0.20	80.7	128
Antimony	< 0.05	< 0.05	< 0.05
Arsenic	< 0.03	< 0.03	< 0.03
Barium	0.03	0.36	0.18
Beryllium	< 0.01	< 0.01	< 0.01
Cadmium	< 0.01	< 0.01	< 0.01
Calcium	35.9	17.4	7.72
Chromium	< 0.02	0.16	0.13
Cobalt	< 0.05	< 0.05	< 0.05
Copper	< 0.02	0.04	0.06
Iron	< 0.10	51.1	23.1
Lead	< 0.02	0.10	0.09
Magnesium	14.6	7.98	5.08
Manganese	< 0.05	0.72	0.14
Mercury	< 0.001	< 0.001	< 0.001
Nickel	< 0.10	< 0.10	< 0.10
Potassium	1.40	3.40	2.50
Selenium	< 0.04	< 0.04	< 0.04
Silver	< 0.01	< 0.01	< 0.01
Sodium	8.12	15.2	5.85
Thallium	< 0.10	< 0.10	< 0.10
Vanadium	< 0.05	0.12	0.09
Zinc	0.26	0.13	0.10

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ADVANCED CHEMISTRY LABS, INC.

DR. STEVE N. TSOUKALAS
DIRECTOR

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 455-1266

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ANALYSIS	Station: MW-10 ACL #: 82698 Received: 04-21-94 Analyzed: 04-26-94 Matrix: Water Units: mg/liter	Station: MW-9 ACL #: 82699 Received: 04-21-94 Analyzed: 04-26-94 Matrix: Water Units: mg/liter	Station: MW-11 ACL #: 82700 Received: 04-21-94 Analyzed: 04-26-94 Matrix: Water Units: mg/liter
METALS — TAL	Dissolved ____ Total X EP-Toxicity ____ TCLP ____	Dissolved ____ Total X EP-Toxicity ____ TCLP ____	Dissolved ____ Total X EP-Toxicity ____ TCLP ____
Aluminum	47.0	38.8	23.0
Antimony	< 0.05	< 0.05	< 0.05
Arsenic	< 0.03	< 0.03	< 0.03
Barium	0.14	0.17	0.12
Beryllium	< 0.01	< 0.01	< 0.01
Cadmium	< 0.01	< 0.01	< 0.01
Calcium	6.98	14.1	5.13
Chromium	0.09	0.17	0.03
Cobalt	< 0.05	< 0.05	< 0.05
Copper	< 0.02	0.02	< 0.02
Iron	28.9	19.3	12.0
Lead	0.07	1.23	< 0.02
Magnesium	4.72	4.36	2.60
Manganese	0.12	0.15	0.12
Mercury	< 0.001	< 0.001	< 0.001
Nickel	< 0.10	< 0.10	< 0.10
Potassium	1.36	1.90	1.64
Selenium	< 0.04	< 0.04	< 0.04
Silver	< 0.01	< 0.01	< 0.01
Sodium	0.21	38.4	10.9
Thallium	< 0.10	< 0.10	< 0.10
Vanadium	0.09	0.07	< 0.05
Zinc	0.10	0.23	0.06

2a.

ACL

ADVANCED CHEMISTRY LABS, INC.

DR. STEVE N. TSOUKALAS
DIRECTOR

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 455-1266

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ANALYSIS	Station: MW-8 ACL #: 82702 Received: 04-21-94 Analyzed: 04-26-94 Matrix: Water Units: mg/liter	Station: Lagoon ACL #: 82703 Received: 04-21-94 Analyzed: 04-26-94 Matrix: Water Units: mg/liter	Station: Lagoon Sed ACL #: 82705 Received: 04-21-94 Analyzed: 04-26-94 Matrix: Soil Units: mg/kg
METALS — TAL	Dissolved Total X EP-Toxicity TCLP	Dissolved Total X EP-Toxicity TCLP	Dissolved Total X EP-Toxicity TCLP
Aluminum	60.5	0.83	2730
Antimony	< 0.05	< 0.05	< 5.00
Arsenic	< 0.03	< 0.03	< 5.00
Barium	0.11	0.03	22.0
Beryllium	< 0.01	< 0.01	< 10.0
Cadmium	< 0.01	< 0.01	< 10.0
Calcium	6.88	33.2	716
Chromium	0.07	< 0.02	40.4
Cobalt	< 0.05	< 0.05	< 5.00
Copper	< 0.02	< 0.02	< 10.0
Iron	12.0	0.80	1920
Lead	0.10	< 0.02	54.2
Magnesium	3.24	13.6	121
Manganese	0.12	< 0.05	10.8
Mercury	< 0.001	< 0.001	< 0.50
Nickel	< 0.10	< 0.10	20.3
Potassium	6.52	1.57	< 50.0
Selenium	< 0.04	< 0.04	< 5.00
Silver	< 0.01	< 0.01	< 10.0
Sodium	57.0	8.65	< 50.0
Thallium	< 0.10	< 0.10	< 10.0
Vanadium	0.07	< 0.05	< 25.0
Zinc	0.16	0.12	352

2a.

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Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ANALYSIS	Station: VSS-4	Station: VSS-3	Station: Background 1
	ACL #: 82706	ACL #: 82708	ACL #: 82709
	Received: 04-21-94	Received: 04-21-94	Received: 04-21-94
	Analyzed: 04-26-94	Analyzed: 04-26-94	Analyzed: 04-26-94
	Matrix: Soil	Matrix: Soil	Matrix: Soil
	Units: mg/kg	Units: mg/kg	Units: mg/kg
METALS — TAL	Dissolved	Dissolved	Dissolved
	Total X	Total X	Total X
	EP-Toxicity	EP-Toxicity	EP-Toxicity -
	TCLP	TCLP	TCLP
Aluminum	2070	3210	2500
Antimony	< 5.00	< 5.00	< 5.00
Arsenic	< 5.00	< 5.00	< 5.00
Barium	10.5	253	< 10.0
Beryllium	< 10.0	< 10.0	< 10.0
Cadmium	< 10.0	95.6	< 10.0
Calcium	572	5710	416
Chromium	12.1	670	< 10.0
Cobalt	< 5.00	5.19	< 5.00
Copper	< 10.0	320	< 10.0
Iron	901	9970	850
Lead	22.2	4060	5.27
Magnesium	64.5	1130	67.2
Manganese	23.7	71.8	8.80
Mercury	< 0.50	0.55	< 0.50
Nickel	< 10.0	412	< 10.0
Potassium	< 50.0	54.0	< 50.0
Selenium	< 5.00	17.8	< 5.00
Silver	< 10.0	< 10.0	< 10.0
Sodium	< 50.0	79.8	< 50.0
Thallium	< 10.0	32.4	< 10.0
Vanadium	< 25.0	30.4	< 25.0
Zinc	61.5	8970	17.2

7a

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Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ANALYSIS	Station: Background 2 ACL #: 82710 Received: 04-21-94 Analyzed: 04-26-94 Matrix: Soil Units: mg/kg	Station: ACL #: Received: Analyzed: Matrix: Units:	Station: ACL #: Received: Analyzed: Matrix: Units:
METALS — TAL	Dissolved Total X EP-Toxicity TCLP	Dissolved Total EP-Toxicity TCLP	Dissolved Total EP-Toxicity TCLP
Aluminum	612		
Antimony	< 5.00		
Arsenic	< 5.00		
Barium	< 10.0		
Beryllium	< 10.0		
Cadmium	< 10.0		
Calcium	79.1		
Chromium	< 10.0		
Cobalt	< 5.00		
Copper	< 10.0		
Iron	185		
Lead	< 5.00		
Magnesium	< 50.0		
Manganese	< 5.00		
Mercury	< 0.50		
Nickel	< 10.0		
Potassium	< 50.0		
Selenium	< 5.00		
Silver	< 10.0		
Sodium	< 50.0		
Thallium	< 10.0		
Vanadium	< 25.0		
Zinc	< 10.0		

QUALITY CONTROL SECTION

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
PHONE (404) 409-1444 • FAX (404) 409-1844

Client:	Golder Associates 3730 Chamblee Tucker Road Atlanta, GA 30341	Client Project No.:	943-3627.400/ Homerville
		ACL Project No.:	15880
		Date Received:	04-21-94
Attention:	Ms. Mary Bourcier	Report Date:	05-13-94

VOLATILE ORGANICS (8240)
SOIL SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	1,2-Dichloro-ethane-d_4 (70-121)	Toluene-d_8 (81-117)	4-Bromofluoro-benzene (74-121)
Soil Blank	103.5	104.3	97.7
82706	105.6	101.5	75.0
82707	107.5	99.3	71.0

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Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

VOLATILE ORGANICS (8240)
WATER SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	1,2-Dichloro-ethane-d_4 (76-114)	Toluene-d_8 (88-110)	4-Bromofluoro-benzene (86-115)
Water Blank	102.2	105.2	99.7
Water Blank	104.6	104.9	99.6
Water Blank	106.1	105.5	99.6
Water Blank	105.2	103.4	97.7
Water Blank	102.9	103.9	96.1
82687	104.3	104.0	100.4
82688	109.5	106.5	101.9
82688-S	106.6	107.2	100.5
82688-SD	106.0	108.7	97.6
82689	101.5	101.9	97.3
82690	100.0	106.5	98.5
82691	102.4	106.5	96.5
82692	108.3	107.3	96.9
82693	102.2	106.3	96.9
82694	103.4	104.8	97.6
82695	103.1	103.8	98.7
82696	100.7	106.4	99.1
82697	105.4	108.7	98.3
82698	104.8	105.0	97.9
82699	106.6	105.3	101.2
82700	94.8	87.9	87.3
82701	96.5	88.7	90.5

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-21-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-22-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-25-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-26-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-27-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Soil Blank
Matrix: Soil
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-25-94

CAS NO.	COMPOUND	RESULT (µg/kg)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

ACL ADVANCED CHEMISTRY LABS, INC.
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TELEPHONE (404) 409-1444

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, gA 30341

Attn: Ms. Mary Bourcier

Client Proj. #: 943-3627.400/ Homerville
ACL Proj. #: 15880
Date Received: 04-21-94
Report Date: 05-13-94

VOLATILE ORGANICS (8240)
WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Sample No.	Compound	Spike Added (µg/liter)	Sample Result	Conc. MS	% Rec	Conc. MSD	% Rec	RPD	QC Limits RPD	QC Limits Recovery
	1,1-Dichloroethene	50	BDL	39.75	79.5	42.03	84.1	5.6	14	61-145
	Trichloroethene	50	BDL	52.20	104.4	52.09	104.2	0.2	14	71-120
82688	Chlorobenzene	50	BDL	52.82	105.6	52.15	104.3	1.3	13	75-130
	Toluene	50	BDL	52.74	105.5	52.15	104.3	1.1	13	76-125
	Benzene	50	BDL	50.16	100.3	50.41	100.8	0.5	11	76-127

BDL = Below Detection Limit

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PHONE (404) 409-1444 • FAX (404) 409-1844

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ACID EXTRACTABLES (8270)
WATER SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	Phenol-d_6 (10-94)	2-Fluoro-phenol (21-100)	2,4,6-Tribromo-phenol (10-123)
Water Blank	33.4	48.4	62.7
82693	27.5	41.2	57.4
82694	17.0	46.5	61.5
82696	19.1	45.1	59.1
82698	32.7	43.4	61.5
82700	26.5	49.0	67.6
82702	24.6	35.1	54.1
82703	31.9	46.0	66.8

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Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

BASE/NEUTRAL EXTRACTABLES (8270)
WATER SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	Nitro-benzene-d_5 (35-114)	2-Fluoro-biphenyl (43-116)	Terphenyl-d_{14} (33-141)
Water Blank	71.1	72.6	82.7
82693	61.4	68.3	87.9
82694	66.4	71.0	75.1
82696	65.5	70.9	69.7
82698	66.0	67.1	71.8
82700	70.3	72.0	61.5
82702	54.7	58.4	71.6
82703	68.7	71.2	77.0

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Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ACID EXTRACTABLES (8270)
SOIL SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	Phenol-d_6 (24-113)	2-Fluoro-phenol (25-121)	2,4,6-Tribromo-phenol (19-122)
Soil Blank	60.2	63.5	38.1
82706	61.3	58.7	47.6

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Client:	Golder Associates 3730 Chamblee Tucker Road Atlanta, GA 30341	Client Project No.:	943-3627.400/ Homerville
		ACL Project No.:	15880
		Date Received:	04-21-94
Attention:	Ms. Mary Bourcier	Report Date:	05-13-94

BASE/NEUTRAL EXTRACTABLES (8270)
SOIL SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	Nitro-benzene-d_5 (23-120)	2-Fluoro-biphenyl (30-115)	Terphenyl -d_{14} (18-137)
Soil Blank	63.8	67.1	68.0
82706	63.6	64.7	67.4

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ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
108-95-2	Phenol	BDL	10
95-57-8	2-Chlorophenol	BDL	10
95-48-7	2-Methylphenol	BDL	10
106-44-5	4-Methylphenol	BDL	10
88-75-5	2-Nitrophenol	BDL	10
105-67-9	2,4-Dimethylphenol	BDL	10
65-85-0	Benzoic acid	BDL	50
120-83-2	2,4-Dichlorophenol	BDL	10
59-50-7	4-Chloro-3-methylphenol	BDL	20
88-06-2	2,4,6-Trichlorophenol	BDL	10
95-95-4	2,4,5-Trichlorophenol	BDL	10
51-28-5	2,4-Dinitrophenol	BDL	50
100-02-7	4-Nitrophenol	BDL	50
534-52-1	4,6-Dinitro-2-methylphenol	BDL	50
87-86-5	Pentachlorophenol	BDL	50

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

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TELEPHONE (404) 409-1444

BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	10
541-73-1	1,3-Dichlorobenzene	BDL	10
106-46-7	1,4-Dichlorobenzene	BDL	10
100-51-6	Benzyl alcohol	BDL	20
95-50-1	1,2-Dichlorobenzene	BDL	10
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	10
621-64-7	N-Nitroso-di-n-propylamine	BDL	10
67-72-1	Hexachloroethane	BDL	10
98-95-3	Nitrobenzene	BDL	10
78-59-1	Isophorone	BDL	10
111-91-1	bis(2-Chloroethoxy)methane	BDL	10
120-82-1	1,2,4-Trichlorobenzene	BDL	10
91-20-3	Naphthalene	BDL	10
106-47-8	4-Chloroaniline	BDL	20
87-68-3	Hexachlorobutadiene	BDL	10
91-57-6	2-Methylnaphthalene	BDL	10
77-47-4	Hexachlorocyclopentadiene	BDL	10
91-58-7	2-Chloronaphthalene	BDL	10
88-74-4	2-Nitroaniline	BDL	50
131-11-3	Dimethyl phthalate	BDL	10
208-96-8	Acenaphthylene	BDL	10
606-20-2	2,6-Dinitrotoluene	BDL	10
99-09-2	3-Nitroaniline	BDL	50
83-32-9	Acenaphthene	BDL	10
132-64-9	Dibenzofuran	BDL	10
121-14-2	2,4-Dinitrotoluene	BDL	10
84-66-2	Diethyl phthalate	BDL	10
7005-72-3	4-Chlorophenyl phenyl ether	BDL	10
86-73-7	Fluorene	BDL	10
100-01-6	4-Nitroaniline	BDL	50
86-30-6	N-Nitrosodiphenylamine	BDL	10
101-55-3	4-Bromophenyl phenyl ether	BDL	10
118-74-1	Hexachlorobenzene	BDL	10
85-01-8	Phenanthrene	BDL	10

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BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: 04-26-94
Date Analyzed: 05-01-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
120-12-7	Anthracene	BDL	10
84-74-2	Di-n-butyl phthalate	BDL	10
206-44-0	Fluoranthene	BDL	10
129-00-0	Pyrene	BDL	10
85-68-7	Butyl benzyl phthalate	BDL	10
91-94-1	3,3'-Dichlorobenzidine	BDL	20
56-55-3	Benzo(a)anthracene	BDL	10
218-01-9	Chrysene	BDL	10
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	10
117-84-0	Di-n-octyl phthalate	BDL	10
205-99-2	Benzo(b)fluoranthene	BDL	10
207-08-9	Benzo(k)fluoranthene	BDL	10
50-32-8	Benzo(a)pyrene	BDL	10
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	10
53-70-3	Dibenz(a,h)anthracene	BDL	10
191-24-2	Benzo(g,h,i)perylene	BDL	10

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

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ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Soil Blank
Matrix: Soil
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
108-95-2	Phenol	BDL	0.33
95-57-8	2-Chlorophenol	BDL	0.33
95-48-7	2-Methylphenol	BDL	0.33
106-44-5	4-Methylphenol	BDL	0.33
88-75-5	2-Nitrophenol	BDL	0.33
105-67-9	2,4-Dimethylphenol	BDL	0.33
65-85-0	Benzoic acid	BDL	1.65
120-83-2	2,4-Dichlorophenol	BDL	0.33
59-50-7	4-Chloro-3-methylphenol	BDL	0.66
88-06-2	2,4,6-Trichlorophenol	BDL	0.33
95-95-4	2,4,5-Trichlorophenol	BDL	0.33
51-28-5	2,4-Dinitrophenol	BDL	1.65
100-02-7	4-Nitrophenol	BDL	1.65
534-52-1	4,6-Dinitro-2-methylphenol	BDL	1.65
87-86-5	Pentachlorophenol	BDL	1.65

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

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BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Soil Blank
Matrix: Soil
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	0.33
541-73-1	1,3-Dichlorobenzene	BDL	0.33
106-46-7	1,4-Dichlorobenzene	BDL	0.33
100-51-6	Benzyl alcohol	BDL	0.66
95-50-1	1,2-Dichlorobenzene	BDL	0.33
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	0.33
621-64-7	N-Nitroso-di-n-propylamine	BDL	0.33
67-72-1	Hexachloroethane	BDL	0.33
98-95-3	Nitrobenzene	BDL	0.33
78-59-1	Isophorone	BDL	0.33
111-91-1	bis(2-Chloroethoxy)methane	BDL	0.33
120-82-1	1,2,4-Trichlorobenzene	BDL	0.33
91-20-3	Naphthalene	BDL	0.33
106-47-8	4-Chloroaniline	BDL	0.66
87-68-3	Hexachlorobutadiene	BDL	0.33
91-57-6	2-Methylnaphthalene	BDL	0.33
77-47-4	Hexachlorocyclopentadiene	BDL	0.33
91-58-7	2-Chloronaphthalene	BDL	0.33
88-74-4	2-Nitroaniline	BDL	1.65
131-11-3	Dimethyl phthalate	BDL	0.33
208-96-8	Acenaphthylene	BDL	0.33
606-20-2	2,6-Dinitrotoluene	BDL	0.33
99-09-2	3-Nitroaniline	BDL	1.65
83-32-9	Acenaphthene	BDL	0.33
132-64-9	Dibenzofuran	BDL	0.33
121-14-2	2,4-Dinitrotoluene	BDL	0.33
84-66-2	Diethyl phthalate	BDL	0.33
7005-72-3	4-Chlorophenyl phenyl ether	BDL	0.33
86-73-7	Fluorene	BDL	0.33
100-01-6	4-Nitroaniline	BDL	1.65
86-30-6	N-Nitrosodiphenylamine	BDL	0.33
101-55-3	4-Bromophenyl phenyl ether	BDL	0.33
118-74-1	Hexachlorobenzene	BDL	0.33
85-01-8	Phenanthrene	BDL	0.33

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BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-21-94

Station No.: ----
ACL Sample No.: Soil Blank
Matrix: Soil
ACL Project No.: 15880
Date Sampled: ----
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
120-12-7	Anthracene	BDL	0.33
84-74-2	Di-n-butyl phthalate	BDL	0.33
206-44-0	Fluoranthene	BDL	0.33
129-00-0	Pyrene	BDL	0.33
85-68-7	Butyl benzyl phthalate	BDL	0.33
91-94-1	3,3'-Dichlorobenzidine	BDL	0.66
56-55-3	Benzo(a)anthracene	BDL	0.33
218-01-9	Chrysene	BDL	0.33
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	0.33
117-84-0	Di-n-octyl phthalate	BDL	0.33
205-99-2	Benzo(b)fluoranthene	BDL	0.33
207-08-9	Benzo(k)fluoranthene	BDL	0.33
50-32-8	Benzo(a)pyrene	BDL	0.33
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	0.33
53-70-3	Dibenz(a,h)anthracene	BDL	0.33
191-24-2	Benzo(g,h,i)perylene	BDL	0.33

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

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TELEPHONE (404) 409-1444

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attn: Ms. Mary Bourcier

Client Proj. #: 943-3627.400/ Homerville
ACL Proj. #: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ACID EXTRACTABLES (8270)
WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Sample No.	Compound	Spike Added (mg/liter)	Sample Result	Conc. MS	% Rec	Conc. MSD	% Rec	RPD	QC Limits RPD	QC Limits Recovery
	Pentachlorophenol	2.000	BDL	1.104	55.2	1.157	57.9	4.7	50	9-103
	Phenol	2.000	BDL	0.950	47.5	0.968	48.4	1.9	42	12-89
82765	2-Chlorophenol	2.000	BDL	1.211	60.6	1.241	62.1	2.4	40	27-123
	4-Chloro-3-Methylphenol	2.000	BDL	1.156	57.8	1.179	59.0	2.0	42	23-97
	4-Nitrophenol	2.000	BDL	1.089	54.5	0.989	49.5	9.6	50	10-80

BDL = Below Detection Limit

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Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attn: Ms. Mary Bourcier

Client Proj. #: 943-3627.400/ Homerville
ACL Proj. #: 15880
Date Received: 04-21-94
Report Date: 05-13-94

BASE/NEUTRAL EXTRACTABLES (8270)
WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

mple lo.	Compound	Spike Added (mg/L)	Sample Result	Conc. MS	% Rec	Conc. MSD	% Rec	RPD	QC Limits RPD	QC Limits Recovery
	1,2,4-Trichlorobenzene	1.000	BDL	0.694	69.4	0.724	72.4	4.2	28	39-98
	Acenaphthene	1.000	BDL	0.805	80.5	0.827	82.7	2.7	31	46-118
	2,4-Dinitrotoluene	1.000	BDL	0.822	82.2	0.826	82.6	0.5	38	24-96
765	Di-n-Butylphthalate	1.000	BDL	0.827	82.7	0.835	83.5	1.0	40	11-117
	Pyrene	1.000	BDL	1.204	120.4	1.246	124.6	3.4	31	26-127
	N-Nitrosodi-n-propylamine	1.000	BDL	0.635	63.5	0.683	68.3	7.3	38	41-116
	1,4-Dichlorobenzene	1.000	BDL	0.652	65.2	0.680	68.0	4.2	28	36-97

DL = Below Detection Limit

ADVANCED CHEMISTRY LABS, INC.
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Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attn: Ms. Mary Bourcier

Client Proj. #: 943-3627.400/ Homerville
ACL Proj. #: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ACID EXTRACTABLES (8270)
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Sample No.	Compound	Spike Added (mg/kg)	Sample Result	Conc. MS	% Rec	Conc. MSD	% Rec	RPD	QC Limits RPD	QC Limits Recovery
	Pentachlorophenol	20.00	0.91	11.70	54.0	10.81	49.5	7.9	47	17-109
	Phenol	20.00	BDL	10.58	52.9	10.22	51.1	3.5	35	26-90
2797	2-Chlorophenol	20.00	BDL	11.19	56.0	11.30	56.5	1.0	50	25-102
	4-Chloro-3-Methylphenol	20.00	BDL	11.09	55.5	11.34	56.7	2.2	33	26-103
	4-Nitrophenol	20.00	BDL	16.57	82.9	14.40	72.0	14.0	50	11-114

BDL = Below Detection Limit

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Atlanta, GA 30341

Attn: Ms. Mary Bourcier

Client Proj. #: 943-3627.400/ Homerville
ACL Proj. #: 15880
Date Received: 04-21-94
Report Date: 05-13-94

BASE/NEUTRAL EXTRACTABLES (8270)
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Sample No.	Compound	Spike Added (mg/kg)	Sample Result	Conc. MS	% Rec	Conc. MSD	% Rec	RPD	QC Limits RPD	QC Limits Recovery
	1,2,4-Trichlorobenzene	10.00	BDL	7.02	70.2	7.18	71.8	2.3	23	38-107
	Acenaphthene	10.00	0.45	7.61	72.8	7.22	69.1	5.2	19	31-137
	2,4-Dinitrotoluene	10.00	BDL	8.22	82.2	7.94	79.4	3.4	47	28-89
2797	Di-n-Butylphthalate	10.00	BDL	7.30	73.0	7.09	70.9	3.0	47	29-135
	Pyrene	10.00	2.08	7.69	63.6	8.44	69.8	9.3	36	35-142
	N-Nitrosodi-n-propylamine	10.00	BDL	6.76	67.6	5.67	56.7	17.4	38	41-126
	1,4-Dichlorobenzene	10.00	BDL	6.60	66.0	6.54	65.4	1.0	27	28-104

BDL = Below Detection Limit

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
PHONE (404) 409-1444 • FAX (404) 409-1844

Client:	Golder Associates 3730 Chamblee Tucker Road Atlanta, GA 30341	Client Project No.:	943-3627.400/ Homerville
		ACL Project No.:	15880
		Date Received:	04-21-94
Attention:	Ms. Mary Bourcier	Report Date:	05-13-94

PESTICIDES/PCBs (8080)
WATER SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	TCMX (50-150)
Water Blank	80
82689	78
82694	79
82698	83
82702	79

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PHONE (404) 409-1444 • FAX (404) 409-1844

Client:	Golder Associates 3730 Chamblee Tucker Road Atlanta, GA 30341	Client Project No.:	943-3627.400/ Homerville
		ACL Project No.:	15880
		Date Received:	04-21-94
Attention:	Ms. Mary Bourcier	Report Date:	05-13-94

PESTICIDES/PCBs (8080)
SOIL SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	TCMX (50-150)
Soil Blank	85
82704	82

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ADVANCED CHEMISTRY LABS, INC.

DR. STEVE N. TSOUKALAS
DIRECTOR

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 455-1266

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ANALYSIS	Station: ---- ACL #: Water Blank Received: ---- Analyzed: 05-05-94 Matrix: Water Units: µg/liter	Station: ---- ACL #: Soil Blank Received: ---- Analyzed: 05-05-94 Matrix: Soil Units: µg/kg	Station: ACL #: Received: Analyzed: Matrix: Units:
ORGANOCHLORINE PESTICIDES (METHOD 608/8080)			
Aldrin	< 0.2	< 2.0	
α-BHC	< 0.2	< 2.0	
β-BHC	< 0.2	< 2.0	
δ-BHC	< 0.2	< 2.0	
γ-BHC	< 0.2	< 2.0	
Chlordane	< 0.4	< 5.0	
4,4'DDD	< 0.2	< 2.0	
4,4'DDE	< 0.2	< 2.0	
4,4'DDT	< 0.2	< 2.0	
Dieldrin	< 0.2	< 2.0	
Endosulfan I	< 0.2	< 2.0	
Endosulfan II	< 0.2	< 2.0	
Endosulfan sulfate	< 0.2	< 2.0	
Endrin	< 0.2	< 2.0	
Endrin aldehyde	< 0.2	< 2.0	
Heptachlor	< 0.2	< 2.0	
Heptachlor epoxide	< 0.2	< 2.0	
Methoxychlor	< 0.2	< 2.0	
Toxaphene	< 4.0	< 50.0	
PCBs (METHOD 608/8080)			
PCB-1016	< 3.0	< 30	
PCB-1221	< 7.5	< 75	
PCB-1232	< 3.0	< 30	
PCB-1242	< 3.0	< 30	
PCB-1248	< 1.5	< 15	
PCB-1254	< 1.5	< 15	
PCB-1260	< 1.5	< 15	

CL ADVANCED CHEMISTRY LABS, INC.
P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attn: Ms. Mary Bourcier

Client Proj. #: 943-3627.400/ Homerville
ACL Proj. #: 15880
Date Received: 04-21-94
Report Date: 05-13-94

PESTICIDES/PCBs (8080)
WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Sample No.	Compound	Spike Added (µg/liter)	Sample Result	Conc. MS	% Rec	Conc. MSD	% Rec	RPD	QC Limits RPD	QC Limits Recovery
	Lindane	2.000	BDL	1.843	92.2	1.874	93.7	1.3	15	56-123
	Heptachlor	2.000	BDL	1.844	92.2	1.826	91.3	1.6	20	40-131
12698	Aldrin	2.000	BDL	1.916	95.8	1.830	91.5	1.0	22	40-120
	Dieldrin	5.000	BDL	2.964	59.3	2.965	59.3	4.6	18	52-126
	Endrin	5.000	BDL	2.601	52.0	2.614	52.3	0.1	21	56-121
	4,4'-DDT	5.000	BDL	3.330	66.6	3.320	66.4	0.5	27	38-127

BDL = Below Detection Limit

CL | ADVANCED CHEMISTRY LABS, INC.
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TELEPHONE (404) 409-1444

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attn: Ms. Mary Bourcier

Client Proj. #: 943-3627.400/ Homerville
ACL Proj. #: 15880
Date Received: 04-21-94
Report Date: 05-13-94

PESTICIDES/PCBs (8080)
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Sample No.	Compound	Spike Added (mg/kg)	Sample Result	Conc. MS	% Rec	Conc. MSD	% Rec	RPD	QC Limits RPD	QC Limits Recovery
	Lindane	0.0200	BDL	0.0172	86.0	0.0177	88.5	4.3	50	46-127
	Heptachlor	0.0200	BDL	0.0177	88.6	0.0184	91.8	2.8	31	35-130
82704	Aldrin	0.0200	BDL	0.0178	89.1	0.0185	92.4	3.6	43	34-132
	Dieldrin	0.0500	BDL	0.0282	56.4	0.0289	57.8	3.7	38	31-134
	Endrin	0.0500	BDL	0.0254	50.8	0.0262	52.4	2.4	45	42-139
	4,4'-DDT	0.0500	BDL	0.0312	62.4	0.032	64.4	3.1	50	23-134

BDL = Below Detection Limit

ACL

ADVANCED CHEMISTRY LABS, INC.

DR. STEVE N. TSOUKALAS
DIRECTOR

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 455-1266

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ANALYSIS	Station: ---- ACL #: Water Blank Received: ---- Analyzed: 04-26-94 Matrix: Water Units: mg/liter	Station: ---- ACL #: Soil Blank Received: ---- Analyzed: 04-26-94 Matrix: Soil Units: mg/kg	Station: ACL #: Received: Analyzed: Matrix: Units:
METALS — TAL	Dissolved / Total X / EP-Toxicity / TCLP	Dissolved / Total X / EP-Toxicity / TCLP	Dissolved / Total / EP-Toxicity / TCLP
Aluminum	< 0.20	< 50.0	
Antimony	< 0.05	< 5.00	
Arsenic	< 0.03	< 5.00	
Barium	< 0.02	< 10.0	
Beryllium	< 0.01	< 10.0	
Cadmium	< 0.01	< 10.0	
Calcium	< 0.50	54.4	
Chromium	< 0.02	< 10.0	
Cobalt	< 0.05	< 5.00	
Copper	< 0.02	< 10.0	
Iron	< 0.10	< 50.0	
Lead	< 0.02	< 5.00	
Magnesium	< 0.50	< 50.0	
Manganese	< 0.05	< 5.00	
Mercury	< 0.001	< 0.50	
Nickel	< 0.10	< 10.0	
Potassium	< 0.50	< 50.0	
Selenium	< 0.04	< 5.00	
Silver	< 0.01	< 10.0	
Sodium	< 0.50	< 50.0	
Thallium	< 0.10	< 10.0	
Vanadium	< 0.05	< 25.0	
Zinc	0.02	< 10.0	

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Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15880
Date Received: 04-21-94
Report Date: 05-13-94

ANALYSIS	Station: Lagoon ACL #: 82703-S Received: 04-21-94 Analyzed: 04-26-94 Matrix: Water Units: %	Station: Background 1 ACL #: 82709-S Received: 04-21-94 Analyzed: 04-26-94 Matrix: Soil Units: %	Station: ACL #: Received: Analyzed: Matrix: Units:
METALS — TAL	Dissolved Total X EP-Toxicity TCLP	Dissolved Total X EP-Toxicity TCLP	Dissolved Total EP-Toxicity TCLP
	"% Spike Recoveries"	"% Spike Recoveries"	
Aluminum	108.7	----	
Antimony	100.4	90.9	
Arsenic	94.6	98.6	
Barium	83.4	86.9	
Beryllium	93.8	93.8	
Cadmium	94.7	96.7	
Calcium	86.6	99.8	
Chromium	85.3	86.5	
Cobalt	89.9	91.7	
Copper	93.5	94.3	
Iron	99.0	83.2	
Lead	85.4	91.4	
Magnesium	118.0	86.9	
Manganese	90.2	93.6	
Mercury	----	----	
Nickel	87.5	89.5	
Potassium	102.8	85.2	
Selenium	90.3	97.9	
Silver	72.7	74.3	
Sodium	93.6	95.6	
Thallium	----	----	
Vanadium	----	----	
Zinc	91.4	85.8	

CHAIN-OF-CUSTODY RECORD

CHEMICAL ANALYSIS

t Golder / K+E
ion Homerville
ct/Number 943.3627.400
ple Type(s) Water

Page 1 of 1

MPLE IDENTITY	DATE SAMPLED	TCL volatiles (8240)	TCL Semi Vol (8270)	TCL Pest/PCB (8080)						TOTAL	REMARKS
12	4/18/94 1355	2								2	
-1	" 1410	2								2	
9	" 1515	2								2	
-20	" 1550	2								2	
17	" 1610	2								2	
18	" 1620	2								2	
-1	4/19/94 1305	2								2	
-12	" 1315	2								2	
e 2	" 1340	2								2	
-7	" 1355	2								2	Normal T/A
uction Well	" 1415	2								2	
-10	" 1430	2								2	
-9	" 1650	2								2	
-11	" 1740	2	1							3	
-3A	" 1535	2								2	MCB
3	" 1835	2								2	
-8	4/20/94 1230	2	1	1						4	
p blank										1	

d By Mary C. Boucier Total No. of Containers 36

shed by Mary C. Boucier Organization: Golder Assoc. Received by: Lisa Elman Organization: ACL
4/20/94 Time: 1300 Date: 4/21/94 Time: 11:15 am

shed by: _____ Organization: _____ Received by: _____ Organization: _____
Time: _____ Date: _____ Time: _____

shed by _____ Organization: _____ Received by: _____ Organization: _____
Time: _____ Date: _____ Time: _____

Method: _____ (attach shipping bill, if any) Shipping Container ID ACL 2216

CHAIN-OF-CUSTODY RECORD

CHEMICAL ANALYSIS

...t Golder / K+E
...ion Harrisville
...ct/Number 943-3603 [illegible]
...ple Type(s) water

Page 1 of 1

...MPLE IDENTITY	DATE SAMPLED	[illegible]	[illegible]	[illegible]						TOTAL	REMARKS
...-9	4/18/94 1515	1								1	
...-1	4/19/94 1255		1	1						2	
...-13	" 1315	1	1	1						3	
...-7	" 1355		1	1						2	
...-10	" 1430	1	1	1						3	
...goon	" 1450		1	1						2	
...-4	" 1650			1						1	
...-11	" 1740			1						1	
...-8	4/20/94 1030			1						1	Normal T/A
...p blank										1	

...led By Mary C. Bourke   Total No. of Containers 17

...uished by: Mary C. Bourke   Organization: [illegible]
4/20/94   Time: 1300

Received by: [illegible] Elms   Organization: ACL
Date: 4/21/94   Time: 11:15

...uished by: ______ Organization: ______
Time: ______

Received by: ______ Organization: ______
Date: ______ Time: ______

...uished by: ______ Organization: ______
Time: ______

Received by: ______ Organization: ______
Date: ______ Time: ______

...ry Method: ______ (attach shipping bill, if any)

Shipping Container ID ACL blue igloo

nt Golder/K+E
ation Homosville
ect/Number 943-3627400
ple Type(s) Soil

Page 1 of 1

CHEMICAL ANALYSIS

AMPLE IDENTITY	DATE SAMPLED	TCL Pest/PCB (8080)	TAL metals (33)	TCL Volatiles (8240)	TCL Semi-V (8270)					TOTAL	REMARKS
2-S	4/18/94 1725	1								1	
gon Sed	4/19/94 1450		1							1	
5-4	4/20/94 1135		1	1	1					3	
5-1	" 1100			1						1	
5-3	" 1105		1							1	
ckground 1	" 1040		1							1	
kground 2	" 1045		1							1	
											Normal T/A
np blank										1	

ed By Mary C. Bonucci

Total No. of Containers 10

ished by: Mary C. Bonucci Organization: Golder Assoc.
/20/94 Time: 1300

Received by: [illegible] Organization: ACL
Date: 4/21/94 Time: 11:15 am

ished by: Organization:
Time:

Received by: Organization:
Date: Time:

ished by: Organization:
Time:

Received by: Organization:
Date: Time:

y Method: Fed X (attach shipping bill, if any)

Shipping Container ID ACL 14D

ACL

MB 943-3627 43

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: VSS-2
ACL Sample No.: 82596
Matrix: Soil
ACL Project No.: 15861
Date Sampled: 04-16-94
Date Extracted: ----
Date Analyzed: 04-22-94

CAS NO.	COMPOUND	RESULT (µg/kg)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	86J	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	48J	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	79	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

BDL = Below Detection Limit

John Anders

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: VSB-1
ACL Sample No.: 82597
Matrix: Soil
ACL Project No.: 15861
Date Sampled: 04-16-94
Date Extracted: ----
Date Analyzed: 04-22-94

CAS NO.	COMPOUND	RESULT (µg/kg)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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ADVANCED CHEMISTRY LABS, INC.

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TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: VSB-2
ACL Sample No.: 82598
Matrix: Soil
ACL Project No.: 15861
Date Sampled: 04-16-94
Date Extracted: ----
Date Analyzed: 04-22-94

CAS NO.	COMPOUND	RESULT (µg/kg)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

ACL

ADVANCED CHEMISTRY LABS, INC.

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TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: SG-6-4
ACL Sample No.: 82599
Matrix: Soil
ACL Project No.: 15861
Date Sampled: 04-16-94
Date Extracted: ----
Date Analyzed: 04-25-94

CAS NO.	COMPOUND	RESULT (µg/kg)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	65J	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	4J	5
75-34-3	1,1-Dichloroethane	12	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	15J	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	3J	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	9	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	2J	5
100-42-5	Styrene	2J	5
1330-20-7	Xylenes (total)	18	5
156-59-2	cis-1,2-Dichloroethene	2J	5

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: SG-5-4
ACL Sample No.: 82600
Matrix: Water
ACL Project No.: 15861
Date Sampled: 04-17-94
Date Extracted: ----
Date Analyzed: 04-21-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	4J	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	4J	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	40	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	423	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: SC-4-5
ACL Sample No.: 82601
Matrix: Water
ACL Project No.: 15861
Date Sampled: 04-17-94
Date Extracted: ----
Date Analyzed: 04-21-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	7J	10
75-00-3	Chloroethane	62	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	4J	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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ADVANCED CHEMISTRY LABS, INC.

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TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: SG-6-10
ACL Sample No.: 82602
Matrix: Water
ACL Project No.: 15861
Date Sampled: 04-17-94
Date Extracted: ----
Date Analyzed: 04-22-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	100
74-83-9	Bromomethane	BDL	100
75-01-4	Vinyl Chloride	8820	100
75-00-3	Chloroethane	BDL	100
75-09-2	Methylene Chloride	81	50
67-64-1	Acetone	BDL	1000
75-15-0	Carbon Disulfide	BDL	50
75-35-4	1,1-Dichloroethene	9840	50
75-34-3	1,1-Dichloroethane	5440	50
156-60-5	trans-1,2-Dichloroethene	59	50
67-66-3	Chloroform	BDL	50
107-06-2	1,2-Dichloroethane	408	50
78-93-3	2-Butanone	BDL	1000
71-55-6	1,1,1-Trichloroethane	360	50
56-23-5	Carbon Tetrachloride	BDL	50
108-05-4	Vinyl Acetate	BDL	500
75-27-4	Bromodichloromethane	BDL	50
78-87-5	1,2-Dichloropropane	BDL	50
10061-01-5	cis-1,3-Dichloropropene	BDL	50
79-01-6	Trichloroethene	69	50
124-48-1	Dibromochloromethane	BDL	50
79-00-5	1,1,2-Trichloroethane	27J	50
71-43-2	Benzene	BDL	50
10061-02-6	trans-1,3-Dichloropropene	BDL	50
75-25-2	Bromoform	BDL	50
108-10-1	4-Methyl-2-Pentanone	BDL	500
591-78-6	2-Hexanone	BDL	500
127-18-4	Tetrachloroethene	149	50
79-34-5	1,1,2,2-Tetrachloroethane	BDL	50
108-88-3	Toluene	99	50
108-90-7	Chlorobenzene	BDL	50
100-41-4	Ethylbenzene	BDL	50
100-42-5	Styrene	BDL	50
1330-20-7	Xylenes (total)	36J	50
156-59-2	cis-1,2-Dichloroethene	4350	50

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: VSB-2
ACL Sample No.: 82598
Matrix: Soil
ACL Project No.: 15861
Date Sampled: 04-16-94
Date Extracted: 04-25-94
Date Analyzed: 04-29-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
108-95-2	Phenol	BDL	0.33
95-57-8	2-Chlorophenol	BDL	0.33
95-48-7	2-Methylphenol	BDL	0.33
106-44-5	4-Methylphenol	BDL	0.33
88-75-5	2-Nitrophenol	BDL	0.33
105-67-9	2,4-Dimethylphenol	BDL	0.33
65-85-0	Benzoic acid	BDL	1.65
120-83-2	2,4-Dichlorophenol	BDL	0.33
59-50-7	4-Chloro-3-methylphenol	BDL	0.66
88-06-2	2,4,6-Trichlorophenol	BDL	0.33
95-95-4	2,4,5-Trichlorophenol	BDL	0.33
51-28-5	2,4-Dinitrophenol	BDL	1.65
100-02-7	4-Nitrophenol	BDL	1.65
534-52-1	4,6-Dinitro-2-methylphenol	BDL	1.65
87-86-5	Pentachlorophenol	BDL	1.65

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: VSB-2
ACL Sample No.: 82598
Matrix: Soil
ACL Project No.: 15861
Date Sampled: 04-16-94
Date Extracted: 04-25-94
Date Analyzed: 04-29-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	0.33
541-73-1	1,3-Dichlorobenzene	BDL	0.33
106-46-7	1,4-Dichlorobenzene	BDL	0.33
100-51-6	Benzyl alcohol	BDL	0.66
95-50-1	1,2-Dichlorobenzene	BDL	0.33
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	0.33
621-64-7	N-Nitroso-di-n-propylamine	BDL	0.33
67-72-1	Hexachloroethane	BDL	0.33
98-95-3	Nitrobenzene	BDL	0.33
78-59-1	Isophorone	BDL	0.33
111-91-1	bis(2-Chloroethoxy)methane	BDL	0.33
120-82-1	1,2,4-Trichlorobenzene	BDL	0.33
91-20-3	Naphthalene	BDL	0.33
106-47-8	4-Chloroaniline	BDL	0.66
87-68-3	Hexachlorobutadiene	BDL	0.33
91-57-6	2-Methylnaphthalene	BDL	0.33
77-47-4	Hexachlorocyclopentadiene	BDL	0.33
91-58-7	2-Chloronaphthalene	BDL	0.33
88-74-4	2-Nitroaniline	BDL	1.65
131-11-3	Dimethyl phthalate	BDL	0.33
208-96-8	Acenaphthylene	BDL	0.33
606-20-2	2,6-Dinitrotoluene	BDL	0.33
99-09-2	3-Nitroaniline	BDL	1.65
83-32-9	Acenaphthene	BDL	0.33
132-64-9	Dibenzofuran	BDL	0.33
121-14-2	2,4-Dinitrotoluene	BDL	0.33
84-66-2	Diethyl phthalate	BDL	0.33
7005-72-3	4-Chlorophenyl phenyl ether	BDL	0.33
86-73-7	Fluorene	BDL	0.33
100-01-6	4-Nitroaniline	BDL	1.65
86-30-6	N-Nitrosodiphenylamine	BDL	0.33
101-55-3	4-Bromophenyl phenyl ether	BDL	0.33
118-74-1	Hexachlorobenzene	BDL	0.33
85-01-8	Phenanthrene	BDL	0.33

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ADVANCED CHEMISTRY LABS, INC.

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BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: VSB-2
ACL Sample No.: 82598
Matrix: Soil
ACL Project No.: 15861
Date Sampled: 04-16-94
Date Extracted: 04-25-94
Date Analyzed: 04-29-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
120-12-7	Anthracene	BDL	0.33
84-74-2	Di-n-butyl phthalate	BDL	0.33
206-44-0	Fluoranthene	BDL	0.33
129-00-0	Pyrene	BDL	0.33
85-68-7	Butyl benzyl phthalate	BDL	0.33
91-94-1	3,3-Dichlorobenzidine	BDL	0.66
56-55-3	Benzo(a)anthracene	BDL	0.33
218-01-9	Chrysene	BDL	0.33
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	0.33
117-84-0	Di-n-octyl phthalate	BDL	0.33
205-99-2	Benzo(b)fluoranthene	BDL	0.33
207-08-9	Benzo(k)fluoranthene	BDL	0.33
50-32-8	Benzo(a)pyrene	BDL	0.33
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	0.33
53-70-3	Dibenz(a,h)anthracene	BDL	0.33
191-24-2	Benzo(g,h,i)perylene	BDL	0.33

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: SG-6-4
ACL Sample No.: 82599
Matrix: Soil
ACL Project No.: 15861
Date Sampled: 04-16-94
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
108-95-2	Phenol	BDL	0.33
95-57-8	2-Chlorophenol	BDL	0.33
95-48-7	2-Methylphenol	BDL	0.33
106-44-5	4-Methylphenol	0.55	0.33
88-75-5	2-Nitrophenol	BDL	0.33
105-67-9	2,4-Dimethylphenol	BDL	0.33
65-85-0	Benzoic acid	BDL	1.65
120-83-2	2,4-Dichlorophenol	BDL	0.33
59-50-7	4-Chloro-3-methylphenol	BDL	0.66
88-06-2	2,4,6-Trichlorophenol	BDL	0.33
95-95-4	2,4,5-Trichlorophenol	BDL	0.33
51-28-5	2,4-Dinitrophenol	BDL	1.65
100-02-7	4-Nitrophenol	BDL	1.65
534-52-1	4,6-Dinitro-2-methylphenol	BDL	1.65
87-86-5	Pentachlorophenol	BDL	1.65

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

ACL

ADVANCED CHEMISTRY LABS, INC.

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BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: SG-6-4
ACL Sample No.: 82599
Matrix: Soil
ACL Project No.: 15861
Date Sampled: 04-16-94
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	0.33
541-73-1	1,3-Dichlorobenzene	BDL	0.33
106-46-7	1,4-Dichlorobenzene	BDL	0.33
100-51-6	Benzyl alcohol	BDL	0.66
95-50-1	1,2-Dichlorobenzene	BDL	0.33
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	0.33
621-64-7	N-Nitroso-di-n-propylamine	BDL	0.33
67-72-1	Hexachloroethane	BDL	0.33
98-95-3	Nitrobenzene	BDL	0.33
78-59-1	Isophorone	BDL	0.33
111-91-1	bis(2-Chloroethoxy)methane	BDL	0.33
120-82-1	1,2,4-Trichlorobenzene	BDL	0.33
91-20-3	Naphthalene	BDL	0.33
106-47-8	4-Chloroaniline	BDL	0.66
87-68-3	Hexachlorobutadiene	BDL	0.33
91-57-6	2-Methylnaphthalene	BDL	0.33
77-47-4	Hexachlorocyclopentadiene	BDL	0.33
91-58-7	2-Chloronaphthalene	BDL	0.33
88-74-4	2-Nitroaniline	BDL	1.65
131-11-3	Dimethyl phthalate	BDL	0.33
208-96-8	Acenaphthylene	BDL	0.33
606-20-2	2,6-Dinitrotoluene	BDL	0.33
99-09-2	3-Nitroaniline	BDL	1.65
83-32-9	Acenaphthene	BDL	0.33
132-64-9	Dibenzofuran	BDL	0.33
121-14-2	2,4-Dinitrotoluene	BDL	0.33
84-66-2	Diethyl phthalate	BDL	0.33
7005-72-3	4-Chlorophenyl phenyl ether	BDL	0.33
86-73-7	Fluorene	BDL	0.33
100-01-6	4-Nitroaniline	BDL	1.65
86-30-6	N-Nitrosodiphenylamine	BDL	0.33
101-55-3	4-Bromophenyl phenyl ether	BDL	0.33
118-74-1	Hexachlorobenzene	BDL	0.33
85-01-8	Phenanthrene	BDL	0.33

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
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BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: SG-6-4
ACL Sample No.: 82599
Matrix: Soil
ACL Project No.: 15861
Date Sampled: 04-16-94
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
120-12-7	Anthracene	BDL	0.33
84-74-2	Di-n-butyl phthalate	BDL	0.33
206-44-0	Fluoranthene	BDL	0.33
129-00-0	Pyrene	BDL	0.33
85-68-7	Butyl benzyl phthalate	BDL	0.33
91-94-1	3,3-Dichlorobenzidine	BDL	0.66
56-55-3	Benzo(a)anthracene	BDL	0.33
218-01-9	Chrysene	BDL	0.33
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	0.33
117-84-0	Di-n-octyl phthalate	BDL	0.33
205-99-2	Benzo(b)fluoranthene	BDL	0.33
207-08-9	Benzo(k)fluoranthene	BDL	0.33
50-32-8	Benzo(a)pyrene	BDL	0.33
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	0.33
53-70-3	Dibenz(a,h)anthracene	BDL	0.33
191-24-2	Benzo(g,h,i)perylene	BDL	0.33

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
PHONE (404) 409-1444 • FAX (404) 409-1844

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15861
Date Received: 04-19-94
Report Date: 05-06-94

STATION:	SG-5-4S
ACL #:	82603
MATRIX:	Soil
Parameters:	
n-Hexane (mg/kg)	< 0.01

ACL ADVANCED CHEMISTRY LABS, INC.
P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attn: Ms. Mary Bourcier

943-3627.400/
Client Proj. #: Homerville
ACL Proj. #: 15861
Date Received: 04-19-94
Report Date: 05-06-94

STATION:	SG-5-4S
ACL #:	82603
Analytical Method Used	418.1
Total Recoverable Petroleum Hydrocarbons	89.6
Units	mg/kg
Detection Limit	7.5
Matrix	Soil
Sample Collection Date	04-17-94
Sample Received Date	04-19-94
Sample Preparation/Extraction Date	04-25-94
Sample Analysis Date	04-25-94
Name of Analyst	MM

BDL = Below Detection Limit

ACL

ADVANCED CHEMISTRY LABS, INC.

DR. STEVE N. TSOUKALAS
DIRECTOR

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 455-1266

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15861
Date Received: 04-19-94
Report Date: 05-06-94

ANALYSIS	Station: VSB-2 ACL #: 82598 Received: 04-19-94 Analyzed: 04-26-94 Matrix: Soil Units: mg/kg	Station: SC-6-4 ACL #: 82599 Received: 04-19-94 Analyzed: 04-26-94 Matrix: Soil Units: mg/kg	Station: ACL #: Received: Analyzed: Matrix: Units:
METALS — TAL	Dissolved Total X EP-Toxicity TCLP	Dissolved Total X EP-Toxicity TCLP	Dissolved Total EP-Toxicity TCLP
Aluminum	3920	2300	
Antimony	< 2.50	< 2.50	
Arsenic	< 2.50	< 2.50	
Barium	< 10.0	< 10.0	
Beryllium	< 10.0	< 10.0	
Cadmium	< 2.50	< 2.50	
Calcium	413	591	
Chromium	6.26	< 5.00	
Cobalt	< 5.00	< 5.00	
Copper	5.84	< 5.00	
Iron	2160	672	
Lead	23.3	< 5.00	
Magnesium	175	83.4	
Manganese	8.08	8.51	
Mercury	< 0.50	< 0.50	
Nickel	< 5.00	< 5.00	
Potassium	62.8	82.4	
Selenium	< 2.50	< 2.50	
Silver	< 5.00	< 5.00	
Sodium	< 50.0	932	
Thallium	< 5.00	< 5.00	
Vanadium	< 10.0	< 10.0	
Zinc	67.0	4.96	

QUALITY CONTROL SECTION

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
PHONE (404) 409-1444 • FAX (404) 409-1844

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15861
Date Received: 04-19-94
Report Date: 05-06-94

VOLATILE ORGANICS (8240)
SOIL SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	1,2-Dichloro-ethane-d_4 (70-121)	Toluene-d_8 (81-117)	4-Bromofluoro-benzene (74-121)
Soil Blank	103.8	103.7	96.6
Soil Blank	103.5	104.3	97.7
82596	101.8	108.7	94.1
82597	103.6	103.6	87.1
82597-S	98.9	103.8	86.6
82597-SD	99.0	108.4	90.7
82598	103.2	101.9	87.1
82599	103.6	104.6	86.5

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Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15861
Date Received: 04-19-94
Report Date: 05-06-94

VOLATILE ORGANICS (8240)
WATER SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	1,2-Dichloroethane-d_4 (76-114)	Toluene-d_8 (88-110)	4-Bromofluorobenzene (86-115)
Water Blank	102.5	105.3	95.6
Water Blank	102.2	105.2	99.7
Water Blank	104.6	104.9	99.6
82600	102.2	105.3	102.6
82601	100.8	106.5	94.3
82602	112.7	106.9	101.3

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: ----
ACL Sample No.: Soil Blank
Matrix: Soil
ACL Project No.: 15861
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-22-94

CAS NO.	COMPOUND	RESULT (µg/kg)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: ----
ACL Sample No.: Soil Blank
Matrix: Soil
ACL Project No.: 15861
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-25-94

CAS NO.	COMPOUND	RESULT (µg/kg)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15861
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-20-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15861
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-21-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: ----
ACL Sample No.: Water Blank
Matrix: Water
ACL Project No.: 15861
Date Sampled: ----
Date Extracted: ----
Date Analyzed: 04-22-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl Chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene Chloride	BDL	5
67-64-1	Acetone	BDL	100
75-15-0	Carbon Disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	100
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon Tetrachloride	BDL	5
108-05-4	Vinyl Acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
75-25-2	Bromoform	BDL	5
108-10-1	4-Methyl-2-Pentanone	BDL	50
591-78-6	2-Hexanone	BDL	50
127-18-4	Tetrachloroethene	BDL	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
108-88-3	Toluene	BDL	5
108-90-7	Chlorobenzene	BDL	5
100-41-4	Ethylbenzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (total)	BDL	5
156-59-2	cis-1,2-Dichloroethene	BDL	5

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ADVANCED CHEMISTRY LABS, INC.

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Client:	Golder Associates 3730 Chamblee Tucker Road Atlanta, GA 30341	Client Project No.:	943-3627.400/ Homerville
		ACL Project No.:	15861
		Date Received:	04-19-94
Attention:	Ms. Mary Bourcier	Report Date:	05-06-94

BASE/NEUTRAL EXTRACTABLES (8270)
SOIL SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	Nitro-benzene-d_5 (23-120)	2-Fluoro-biphenyl (30-115)	Terphenyl-d_{14} (18-137)
Soil Blank	63.8	67.1	68.0
82598	73.7	63.7	65.7
82599	65.3	65.8	68.5

CL ADVANCED CHEMISTRY LABS, INC.
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TELEPHONE (404) 409-1444

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attn: Ms. Mary Bourcier

Client Proj. #: 943-3627.400/ Homerville
ACL Proj. #: 15861
Date Received: 04-19-94
Report Date: 05-06-94

VOLATILE ORGANICS (8240)
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Sample No.	Compound	Spike Added (µg/kg)	Sample Result	Conc. MS	% Rec	Conc. MSD	% Rec	RPD	QC Limits RPD	QC Limits Recovery
	1,1-Dichloroethene	50	BDL	45.27	90.5	43.68	87.4	3.6	22	59-172
	Trichloroethene	50	BDL	52.74	105.5	54.70	109.4	3.6	24	62-137
82597	Chlorobenzene	50	BDL	53.56	107.1	52.66	105.3	1.7	21	60-133
	Toluene	50	BDL	53.30	106.6	54.58	109.2	2.4	21	59-139
	Benzene	50	BDL	49.94	99.9	51.57	103.1	3.2	21	66-142

BDL = Below Detection Limit

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Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15861
Date Received: 04-19-94
Report Date: 05-06-94

ACID EXTRACTABLES (8270)
SOIL SURROGATE PERCENT RECOVERY SUMMARY

Sample No.	Phenol-d_6 (24-113)	2-Fluoro-phenol (25-121)	2,4,6-Tribromo-phenol (19-122)
Soil Blank	60.2	63.5	38.1
82598	64.4	65.3	45.9
82599	62.6	61.0	47.8

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ADVANCED CHEMISTRY LABS, INC.

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ACIDS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: ----
ACL Sample No.: Soil Blank
Matrix: Soil
ACL Project No.: 15861
Date Sampled: -----
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
108-95-2	Phenol	BDL	0.33
95-57-8	2-Chlorophenol	BDL	0.33
95-48-7	2-Methylphenol	BDL	0.33
106-44-5	4-Methylphenol	BDL	0.33
88-75-5	2-Nitrophenol	BDL	0.33
105-67-9	2,4-Dimethylphenol	BDL	0.33
65-85-0	Benzoic acid	BDL	1.65
120-83-2	2,4-Dichlorophenol	BDL	0.33
59-50-7	4-Chloro-3-methylphenol	BDL	0.66
88-06-2	2,4,6-Trichlorophenol	BDL	0.33
95-95-4	2,4,5-Trichlorophenol	BDL	0.33
51-28-5	2,4-Dinitrophenol	BDL	1.65
100-02-7	4-Nitrophenol	BDL	1.65
534-52-1	4,6-Dinitro-2-methylphenol	BDL	1.65
87-86-5	Pentachlorophenol	BDL	1.65

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

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BASE/NEUTRALS - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: ----
ACL Sample No.: Soil Blank
Matrix: Soil
ACL Project No.: 15861
Date Sampled: ----
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl)ether	BDL	0.33
541-73-1	1,3-Dichlorobenzene	BDL	0.33
106-46-7	1,4-Dichlorobenzene	BDL	0.33
100-51-6	Benzyl alcohol	BDL	0.66
95-50-1	1,2-Dichlorobenzene	BDL	0.33
39638-32-9	bis(2-Chloroisopropyl)ether	BDL	0.33
621-64-7	N-Nitroso-di-n-propylamine	BDL	0.33
67-72-1	Hexachloroethane	BDL	0.33
98-95-3	Nitrobenzene	BDL	0.33
78-59-1	Isophorone	BDL	0.33
111-91-1	bis(2-Chloroethoxy)methane	BDL	0.33
120-82-1	1,2,4-Trichlorobenzene	BDL	0.33
91-20-3	Naphthalene	BDL	0.33
106-47-8	4-Chloroaniline	BDL	0.66
87-68-3	Hexachlorobutadiene	BDL	0.33
91-57-6	2-Methylnaphthalene	BDL	0.33
77-47-4	Hexachlorocyclopentadiene	BDL	0.33
91-58-7	2-Chloronaphthalene	BDL	0.33
88-74-4	2-Nitroaniline	BDL	1.65
131-11-3	Dimethyl phthalate	BDL	0.33
208-96-8	Acenaphthylene	BDL	0.33
606-20-2	2,6-Dinitrotoluene	BDL	0.33
99-09-2	3-Nitroaniline	BDL	1.65
83-32-9	Acenaphthene	BDL	0.33
132-64-9	Dibenzofuran	BDL	0.33
121-14-2	2,4-Dinitrotoluene	BDL	0.33
84-66-2	Diethyl phthalate	BDL	0.33
7005-72-3	4-Chlorophenyl phenyl ether	BDL	0.33
86-73-7	Fluorene	BDL	0.33
100-01-6	4-Nitroaniline	BDL	1.65
86-30-6	N-Nitrosodiphenylamine	BDL	0.33
101-55-3	4-Bromophenyl phenyl ether	BDL	0.33
118-74-1	Hexachlorobenzene	BDL	0.33
85-01-8	Phenanthrene	BDL	0.33

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ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

BASE/NEUTRALS (cont'd) - SW-846, METHOD 8270

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-19-94

Station No.: ----
ACL Sample No.: Soil Blank
Matrix: Soil
ACL Project No.: 15861
Date Sampled: ----
Date Extracted: 04-25-94
Date Analyzed: 04-28-94

CAS NO.	COMPOUND	RESULT (mg/kg)	DETECTION LIMIT
120-12-7	Anthracene	BDL	0.33
84-74-2	Di-n-butyl phthalate	BDL	0.33
206-44-0	Fluoranthene	BDL	0.33
129-00-0	Pyrene	BDL	0.33
85-68-7	Butyl benzyl phthalate	BDL	0.33
91-94-1	3,3'-Dichlorobenzidine	BDL	0.66
56-55-3	Benzo(a)anthracene	BDL	0.33
218-01-9	Chrysene	BDL	0.33
117-81-7	bis(2-Ethylhexyl) phthalate	BDL	0.33
117-84-0	Di-n-octyl phthalate	BDL	0.33
205-99-2	Benzo(b)fluoranthene	BDL	0.33
207-08-9	Benzo(k)fluoranthene	BDL	0.33
50-32-8	Benzo(a)pyrene	BDL	0.33
193-39-5	Indeno(1,2,3-cd)pyrene	BDL	0.33
53-70-3	Dibenz(a,h)anthracene	BDL	0.33
191-24-2	Benzo(g,h,i)perylene	BDL	0.33

BDL = Below Detection Limit
J = Less Than Detection Limit, Approximate Value

ACL — ADVANCED CHEMISTRY LABS, INC.

DR. STEVE N. TSOUKALAS
DIRECTOR

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 455-1266

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

Client Project No.: 943-3627.400/ Homerville
ACL Project No.: 15861
Date Received: 04-19-94
Report Date: 05-06-94

ANALYSIS	Station: ----	Station:	Station:
	ACL #: Soil Blank	ACL #:	ACL #:
	Received: ----	Received:	Received:
	Analyzed: 04-26-94	Analyzed:	Analyzed:
	Matrix: Soil	Matrix:	Matrix:
	Units: mg/kg	Units:	Units:
METALS — TAL	Dissolved	Dissolved	Dissolved
	Total X	Total	Total
	EP-Toxicity	EP-Toxicity	EP-Toxicity
	TCLP	TCLP	TCLP
Aluminum	< 5.00		
Antimony	< 2.50		
Arsenic	< 2.50		
Barium	< 10.0		
Beryllium	< 10.0		
Cadmium	< 2.50		
Calcium	< 75.0		
Chromium	< 5.00		
Cobalt	< 5.00		
Copper	< 5.00		
Iron	< 10.0		
Lead	< 5.00		
Magnesium	< 5.00		
Manganese	< 2.50		
Mercury	< 0.50		
Nickel	< 5.00		
Potassium	< 10.0		
Selenium	< 2.50		
Silver	< 5.00		
Sodium	< 50.0		
Thallium	< 5.00		
Vanadium	< 10.0		
Zinc	< 3.00		

CHAIN-OF-CUSTODY RECORD

Golder / K+E
ion Honeyville
ct/Number 943-3637.400
le Type(s) water, soil

Page 1 of 1

CHEMICAL ANALYSIS

PLE IDENTITY	DATE SAMPLED	TCL Volatiles	TCL Semi-Vol	TAL Metals	TPH					TOTAL	REMARKS
-2	4/16/94 1005	1								1	
-1	" 1015	1								1	
3-2	" 1035	1	1	1	#					3	
-6-4	" 1515	1	1	1	#					3	
5-4	4/17/94 1050	2								2	
-4-5	" 1250	2								2	
-6-10	" 1645	2								2	
5-45	4/17/94 1030				1					1	← container in plastic bottle
ip blank	—									1	

TCL vol. includes cis and trans -DCE
Temperature of cooler - 7°C

d By Mary C. Bauer
Total No. of Containers 16

shed by: Mary C. Bauer Organization: Golder Assoc.
4/18/94 Time: 1200

Received by: C Tracy Organization: ACL
Date: 4-19-94 Time: 9:19a.m.

shed by: ______ Organization: ______
______ Time: ______

Received by: ______ Organization: ______
Date: ______ Time: ______

shed by: ______ Organization: ______
______ Time: ______

Received by: ______ Organization: ______
Date: ______ Time: ______

Method: Fed X 5103992262 (attach shipping bill, if any)

Shipping Container ID ACL

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
PHONE (404) 409-1444 • FAX (404) 409-1844

Homerville

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Client Project No.: 943-3627.400
ACL Project No.: 15860
Date Received: 04-19-94
Report Date: 04-27-94

Attention: Ms. Mary Bourcier

STATION:	SG-5-4
ACL #:	82595
MATRIX:	Water
Parameters:	
n-Hexane (mg/liter)	0.189

MCB - 943-3627

John Andros
Lab Manager

ACL ADVANCED CHEMISTRY LABS, INC.
P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attn: Ms. Mary Bourcier

Homerville
Client Proj. #: 943-3627.400
ACL Proj. #: 15860
Date Received: 04-19-94
Report Date: 04-27-94

STATION:	SG-5-4
ACL #:	82595
Analytical Method Used	418.1
Total Recoverable Petroleum Hydrocarbons	3.4
Units	mg/liter
Detection Limit	0.5
Matrix	Water
Sample Collection Date	04-17-94
Sample Received Date	04-19-94
Sample Preparation/Extraction Date	04-25-94
Sample Analysis Date	04-25-94
Name of Analyst	MM

BDL = Below Detection Limit

CHEMICAL ANALYSIS

nt Golder H+E
ation Homerville
ject/Number 943-3607.400
nple Type(s) water

Page 1 of 1

Temperature of Cooler : 12°C

AMPLE IDENTITY	DATE SAMPLED	TPH and hexane								TOTAL	REMARKS
-5-4	4/17/94 1050	1								1	Did not provide 40ml vials for hexane testing. ∴ pour some sample out of the 1liter bottle which contains headspace to 40 ml vials for hexane testing! Also the sample is not preserved when received
Temp blank	—	●								1	

Total No. of Containers 2

pled By: Mary C Baucser

quished by: Mary C Baucser Organization: Golder Assoc
4/18/94 Time: 1200

Received by: C Tracey Organization: ACL
Date: 4-19-94 Time: 9:19a.m.

quished by: ____ Organization: ____
Time: ____

Received by: ____ Organization: ____
Date: ____ Time: ____

quished by: ____ Organization: ____
Time: ____

Received by: ____ Organization: ____
Date: ____ Time: ____

very Method: Fed X 5103992143 (attach shipping bill, if any)

Shipping Container ID ACL-150

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
TELEPHONE (404) 409-1444

VOLATILE ORGANICS - SW-846, METHOD 8240

Client Name: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Contact: Ms. Mary Bourcier
Project No.: 943-3627.400/Homerville
Date Received: 04-22-94

Station No.: MW-3(Bottom Layer)
ACL Sample No.: 82778
Matrix: Water
ACL Project No.: 15887
Date Sampled: 04-19-94
Date Extracted: ----
Date Analyzed: 04-27-94

CAS NO.	COMPOUND	RESULT (µg/liter)	DETECTION LIMIT
74-87-3	Chloromethane	BDL	250
74-83-9	Bromomethane	BDL	250
75-01-4	Vinyl Chloride	BDL	250
75-00-3	Chloroethane	937	250
75-09-2	Methylene Chloride	BDL	125
67-64-1	Acetone	BDL	2500
75-15-0	Carbon Disulfide	BDL	125
75-35-4	1,1-Dichloroethene	101J	125
75-34-3	1,1-Dichloroethane	761	125
156-60-5	trans-1,2-Dichloroethene	BDL	125
67-66-3	Chloroform	BDL	125
107-06-2	1,2-Dichloroethane	BDL	125
78-93-3	2-Butanone	BDL	2500
71-55-6	1,1,1-Trichloroethane	BDL	125
56-23-5	Carbon Tetrachloride	BDL	125
108-05-4	Vinyl Acetate	BDL	1250
75-27-4	Bromodichloromethane	BDL	125
78-87-5	1,2-Dichloropropane	BDL	125
10061-01-5	cis-1,3-Dichloropropene	BDL	125
79-01-6	Trichloroethene	BDL	125
124-48-1	Dibromochloromethane	BDL	125
79-00-5	1,1,2-Trichloroethane	BDL	125
71-43-2	Benzene	88J	125
10061-02-6	trans-1,3-Dichloropropene	BDL	125
75-25-2	Bromoform	BDL	125
108-10-1	4-Methyl-2-Pentanone	BDL	1250
591-78-6	2-Hexanone	BDL	1250
127-18-4	Tetrachloroethene	BDL	125
79-34-5	1,1,2,2-Tetrachloroethane	BDL	125
108-88-3	Toluene	522	125
108-90-7	Chlorobenzene	BDL	125
100-41-4	Ethylbenzene	167	125
100-42-5	Styrene	BDL	125
1330-20-7	Xylenes (total)	7520	125
156-59-2	cis-1,2-Dichloroethene	BDL	125

ACL

ADVANCED CHEMISTRY LABS, INC.

P.O. BOX 88610 • ATLANTA, GEORGIA 30356
PHONE (404) 409-1444 • FAX (404) 409-1844

Client: Golder Associates
3730 Chamblee Tucker Road
Atlanta, GA 30341

Attention: Ms. Mary Bourcier

943-3627.400/
Client Project No.: Homerville
ACL Project No.: 15887
Date Received: 04-19-94
Report Date: 04-28-94

STATION:	MW-3 (Top Layer)
ACL #:	82778
MATRIX:	Liquid

Parameters:

Fuel ID (GC Scan) ..... Mineral Spirits Range

CHAIN-OF-CUSTODY RECORD

nt Golder / K+E
ation Homerville
ject/Number 943-3627.400
nple Type(s) multiphase water

CHEMICAL ANALYSIS

run both on layers

Page 1 of 1

AMPLE IDENTITY	DATE SAMPLED	TCL Volatiles (8040)	TPH - Fuel Petroleum Scan							TOTAL	REMARKS
MW-3	4/19/94 1835	1	1							2	

mpled By Mary C Bourcier

Total No. of Containers 2

nquished by: Mary C Bourcier Organization: Golder Assoc.
: 4/22/94 Time: 0920

Received by: M Lavender Organization: ACL.
Date: 4-22-94 Time: 9:20

nquished by: Organization:
: Time:

Received by: Organization:
Date: Time:

nquished by: Organization:
: Time:

Received by: Organization:
Date: Time:

very Method: (attach shipping bill, if any)

Shipping Container ID

Appendix IV

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

June 19, 1996

Mr. Angel Diaz
Brockway Standard, Inc.
Highway 84 West
Homerville, Georgia 31634

Subject: **Report of a Limited Sediment Sampling and Testing Program**
NPDES Outfall #003
Brockway Standard, Inc.
Homerville, Clinch County, Georgia
LAW Project Number 40544-6-7739

Dear Mr. Diaz:

Law Engineering and Environmental Services, Inc. (LAW) has completed a limited sediment sampling and testing program for the drainage ditch downgradient from NPDES Outfall #003 at the subject property. These services were performed in general accordance with LAW Proposal Number 96-4599E, dated May 10, 1996. Authorization for these services was provided by your Purchase Order #007379 dated May 21, 1996.

This report is intended for the use of Brockway Standard, Inc. only. Reliance on this document by any other party without the express written consent of LAW constitutes that party's acceptance of the attached Agreement for Secondary Client. Use of this report for purposes beyond those reasonably intended by Brockway Standard, Inc. and LAW will be at the sole risk of the user. Submittal of this report for regulatory agency review is included with the intended use of this report.

The conclusions contained herein are based on the data which was reviewed and documented in this report along with our experience on similar projects. If additional information concerning the environmental conditions at the drainage ditch downgradient from NPDES Outfall #003 is discovered it should be reported to us for our review so that we can reassess potential environmental impacts, if necessary.

Background

This sampling and testing program was performed at the request of the Georgia Department of Natural Resources, Environmental Protection Division (EPD) as stated in a letter addressed to Brockway Standard, Inc. dated April 17, 1996. EPD requested that Brockway Standard, Inc. perform a metal scan on representative sediment samples taken from the outfall #003 ditch and the stream considered to be waters of the State, and evaluate if contamination exists and the extent of migration of contamination. Based on this information and your response to our proposal, LAW performed a limited sediment sampling and testing program.

3901 CARMICHAEL AVENUE • JACKSONVILLE, FL 32207
(904) 396-5173 • FAX (904) 396-5703 OR 399-3176

Sediment Laboratory Analysis

The sediment samples obtained were analyzed by Law Engineering and Environmental Services National Laboratories (LENL) in Pensacola, Florida. The three sediment samples were analyzed in the laboratory by Inductively Coupled Argon Plasma (ICP) methodologies for 24 metals by SW-846 6010 procedures.

The analytes detected and the applicable regulatory limit/guidelines, where published, are summarized in Table 1 below. Table 1 also compares the results of the testing to the Notification Concentrations established by the Georgia Hazardous Sites Response Act. Complete laboratory analysis results and chain-of-custody records are attached to this report.

Table 1
Results of Sediment Laboratory Analysis
NPDES Outfall #003 Ditch
Brockway Standard, Inc.
Homerville, Georgia
LAW Project No. 40544-6-7739
Samples collected on May 29, 1996

Analyte	Units	S-1	S-2	S-3	HSRA NC[1]
Lead	mg/Kg	703	653	208	300
Antimony	mg/Kg	3.64	2.81	ND	10.00
Arsenic	mg/Kg	3.85	2.56	ND	41.00
Barium	mg/Kg	51.5	56.0	19.5	500.0
Beryllium	mg/Kg	ND	0.597	0.539	3.000
Cadmium	mg/Kg	5.72	3.5	1.71	39.00
Chromium	mg/Kg	112.0	92.1	32.6	1200.0
Cobalt	mg/Kg	ND	3.16	0.899	25.000
Copper	mg/Kg	41.7	130.0	363.0	1500.0
Nickel	mg/Kg	51.1	71.8	10.5	420.0
Selenium	mg/Kg	ND	ND	ND	36
Silver	mg/Kg	ND	ND	ND	10
Thallium	mg/Kg	ND	ND	ND	10

Analyte	Units	S-1	S-2	S-3	HSRA NC[1]
Vanadium	mg/Kg	2.18	3.41	8.45	100.00
Zinc	mg/Kg	1330	1600	240	2800

Notes: 1. HSRA NC = Hazardous Sites Response Act, Notification Concentration, Appendix I, Georgia Rule 391-3-19.
2. ND = Not Detected at laboratory detection limit.

Conclusions

Sediment laboratory analysis results did not indicate the presence of the analytes tested at concentrations above applicable Hazardous Sites Response Act Notification Concentrations except for lead in S-1 and S-2. Lead concentrations in the sediment in these areas likely exceed concentrations which may be attributable to ambient conditions. Based on this information elevated lead concentrations likely are present in the ditch sediment between sample locations S-1 and S-2.

We appreciate the opportunity to have assisted you in this matter. If you have any questions or wish to discuss our findings in further detail, please contact us.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Darrell M. Setser
Environmental Engineer

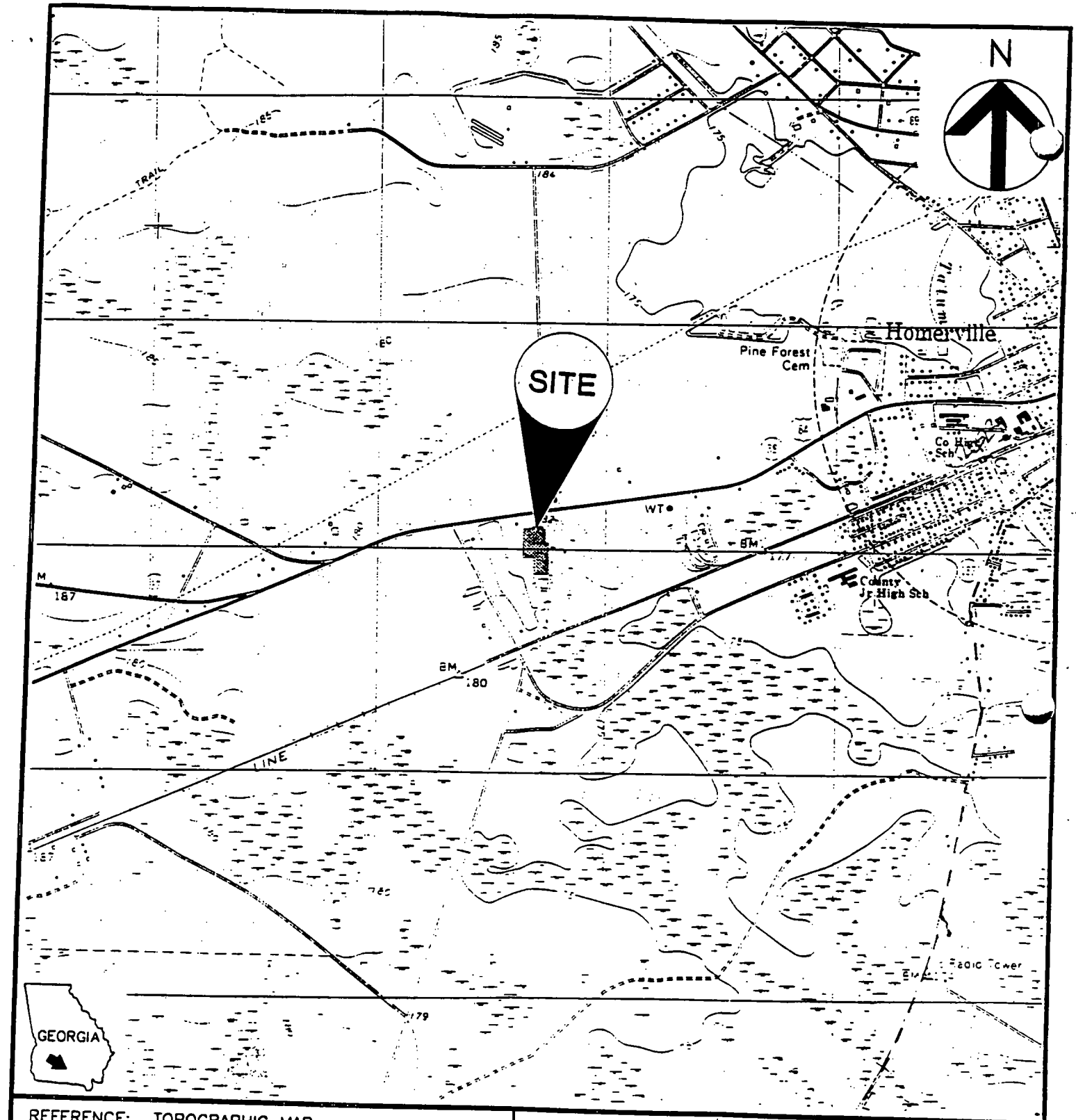
James A. Horton, P.E.
Principal Engineer
Registered, Georgia #12385

DMS/JAH:ph

Attachments: Site Location Plan
Field Exploration Plan
Laboratory Analysis

Distribution: Brockway Standard, Inc. (2)
File (1)

\phyllis\darrell\7739.rpt



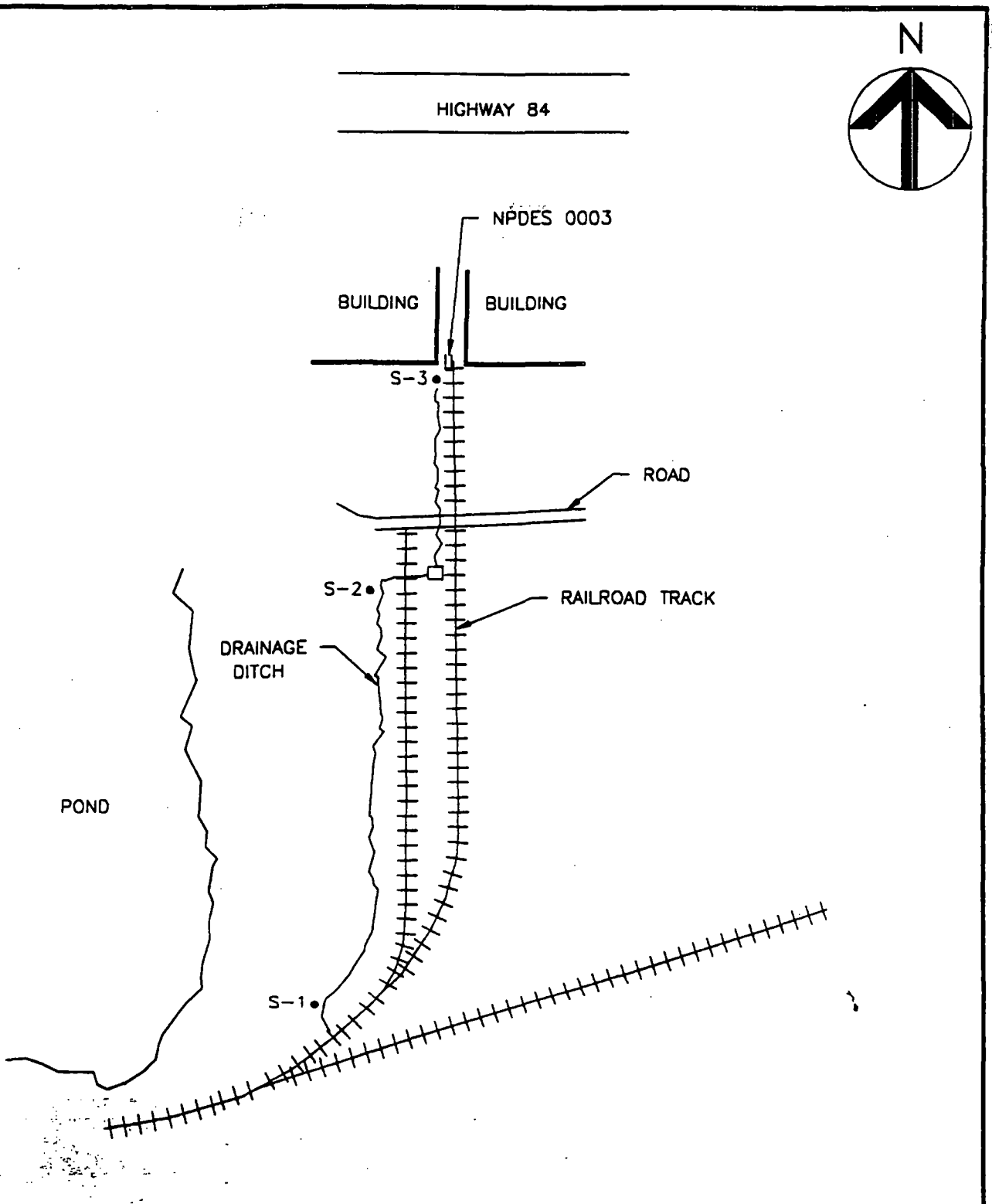
REFERENCE: TOPOGRAPHIC MAP
HOMERVILLE WEST QUADRANGLE; GEORGIA
DATED: 1978
U.S. GEOLOGICAL SURVEY

0 1000' 2000'
GRAPHIC SCALE

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
JACKSONVILLE, FLORIDA

SITE LOCATION PLAN
Brockway Standard, Inc.
Highway 84 West
Homerville, Georgia

DRAWN: TW	DATE: 6/11/96	SCALE: 1" = 2000'
CHECKED: DMS	PROJ. NO. 40544-6-7739	FIGURE 1



LEGEND

- SEDIMENT SAMPLE LOCATION

REFERENCE: SITE SKETCH PREPARED BY LAW
DATED: MAY 29, 1996

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
JACKSONVILLE, FLORIDA

FIELD EXPLORATION PLAN
Brockway Standard, Inc.
Highway 84 West
Homerville, Georgia

DRAWN: TW	DATE: 6/11/96	SCALE: N.T.S.
CHECKED: DMS	PROJ. NO. 40544-6-7739	FIGURE 2

APPENDIX III

Analytical Results for SI Samples

From: Georgia Dept. of Natural Resources
Environmental Protection Div. Laboratory
455 14th Street NW
Atlanta, GA 30318

July 17, 1996

RECEIVED
JUL 17 1996
HAZARDOUS WASTE MANAGEMENT BRANCH

To: E. WIlliams
D. Heater
HWMB

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AB19274 Source ID#: ADHOC
DNR project: HW
sample description: BROCKWAY STANDARD HW60100
Sample Collector: WMS/HEATER
Sample collection date: 06/11/96 Time: 10:15
Lab submittal date: 06/12/96 Time: 09:59
DNR Lab reference: HW60100 LABORATORY: METALS

José Jones well

Parameter		Result	Units	MDL
EPA Method 8260 Water		see below	ug/L	5
Semivolatile water sample (8270)		see below	ug/l	10
Extraction 3510 SemiVol. L/L		950ml	ml	
Arsenic	01002	Not Detected	ug/l	25
Lead	01051	1.4	ug/l	1.3
Selenium	01147	Not Detected	ug/l	5
ICP METALS FOR HAZARDOUS WASTE		see below	ug/l	

Data for EPA Method 8260 Water ug/L:

Component Name		Result	Component MDL
Dichlorodifluoromethane	34668	Not Detected	5
Chloromethane	34418	Not Detected	10
Bromomethane	34413	Not Detected	10
Vinyl Chloride	39175	Not Detected	10
Chloroethane	34311	Not Detected	10
Methylene Chloride	34423	Not Detected	5
Trichlorofluoromethane	34488	Not Detected	5
Acetone	81552	Not Detected	100
Dibromomethane	77596	Not Detected	5
trans-1,2-Dichloroethene	34546	Not Detected	5
Iodomethane	77424	Not Detected	5
Carbon Disulfide	77041	Not Detected	5
1,1-Dichloroethene	34501	Not Detected	5
1,1-Dichloroethane	34496	Not Detected	5
cis-1,2-Dichloroethene	77093	Not Detected	5
2,2-Dichloropropane	77170	Not Detected	5
Bromochloromethane	77297	Not Detected	5
Chloroform	32106	Not Detected	5

Data for EPA Method 8260 Water (continued):

Component Name		Result	Component MDL
Dibromofluoromethane(Surrogate QC Std.)		18.8	0
1,1-Dichloropropene	77168	Not Detected	5
1,2-Dichloroethane	32103	Not Detected	5
2-Butanone	81595	Not Detected	100
1,1,1-Trichloroethane	34506	Not Detected	5
Carbon Tetrachloride	32102	Not Detected	5
Vinyl Acetate	77057	Not Detected	50
Bromodichloromethane	32101	Not Detected	5
1,2-Dichloropropane	34541	Not Detected	5
Trichloroethene	39180	Not Detected	5
Benzene	34030	Not Detected	5
2-Chloroethyl vinyl ether	34576	Not Detected	5
cis-1,3-Dichloropropene	34704	Not Detected	5
trans-1,3-Dichloropropene	34699	Not Detected	5
Dibromochloromethane	32105	Not Detected	5
1,1,2-Trichloroethane	34511	Not Detected	5
Bromoform	32104	Not Detected	5
1,2,3-Trichloropropane	77443	Not Detected	5
4-Methyl-2-Pentanone	81596	Not Detected	50
2-Hexanone	77103	Not Detected	50
Tetrachloroethene	34475	Not Detected	5
1,3-Dichloropropane	77173	Not Detected	5
1,1,2,2-Tetrachloroethane	34516	Not Detected	5
Toluene-d8(Surrogate QC Std.)		20.2	0
Toluene	34010	Not Detected	5
1,2-Dibromoethane	77651	Not Detected	5
Chlorobenzene	34301	Not Detected	5
Ethylbenzene	34371	Not Detected	5
1,1,1,2-Tetrachloroethane	77562	Not Detected	5
Bromofluorobenzene(Surrogate QC Std.)		19.0	0
Styrene	77128	Not Detected	5
p,m-Xylene	77135	Not Detected	5
o-Xylene	77135	Not Detected	5
Isopropylbenzene	77223	Not Detected	5
Bromobenzene	81555	Not Detected	5
n-Propylbenzene	77224	Not Detected	5
2-Chlorotoluene	77275	Not Detected	5
1,3,5-Trimethylbenzene	77226	Not Detected	5
4-Chlorotoluene	77277	Not Detected	5
tert-Butylbenzene	77353	Not Detected	5
1,2,4-Trimethylbenzene	77222	Not Detected	5
sec-Butylbenzene	77350	Not Detected	5
1,3-Dichlorobenzene	34566	Not Detected	5
p-Isopropyltoluene	77356	Not Detected	5
1,4-Dichlorobenzene	34571	Not Detected	5
n-Butylbenzene	77342	Not Detected	5
1,2-Dichlorobenzene	34536	Not Detected	5
1,2-Dibromo-3-chloropropane	38487	Not Detected	5
1,2,4-Trichlorobenzene	34551	Not Detected	5
Hexachlorobutadiene	38702	Not Detected	5
Naphthalene	34696	Not Detected	5

Data for EPA Method 8260 Water (continued):

Component Name		Result	Component MDL
1,2,3-Trichlorobenzene	77613	Not Detected	5

Data for Semivolatile water sample (8270) ug/l:

Component Name		Result	Component MDL
n-Nitrosodimethylamine	34438	Not Detected	10
2-Picoline	77088	Not Detected	10
Methylmethanesulfonate	73595	Not Detected	10
2-Fluorophenol(Surrogate QC Std.)		36.2	
Ethylmethanesulfonate	73571	Not Detected	20
Aniline	77089	Not Detected	10
Phenol-d5(Surrogate QC Std.)		29.7	
Phenol	34694	Not Detected	10
bis(2-Chloroethyl)ether	34273	Not Detected	10
2-Chlorophenol	34586	Not Detected	10
1,3-Dichlorobenzene	34566	Not Detected	10
1,4-Dichlorobenzene	34571	Not Detected	10
Benzyl alcohol	77147	Not Detected	20
1,2-Dichlorobenzene	34536	Not Detected	10
2-Methylphenol		Not Detected	10
bis(2-Chloroisopropyl)ether	34283	Not Detected	10
Acetophenone	81553	Not Detected	10
4-Methylphenol		Not Detected	10
n-Nitroso-di-n-propylamine	34428	Not Detected	10
Hexachloroethane	34396	Not Detected	10
Nitrobenzene-d5(Surrogate QC Std.)		76.8	
Nitrobenzene	34447	Not Detected	10
n-Nitrosopiperidine	73619	Not Detected	20
Isophorone	34408	Not Detected	10
2-Nitrophenol	34591	Not Detected	10
2,4-Dimethylphenol	34606	Not Detected	10
bis(2-Chloroethoxy)methane	34278	Not Detected	10
Benzoic acid	77247	Not Detected	50
2,4-Dichlorophenol	34601	Not Detected	10
1,2,4-Trichlorobenzene	34551	Not Detected	10
aa-dimethyl-Phenethylamine	73564	Not Detected	10
Naphthalene	34696	Not Detected	10
4-Chloroaniline	73529	Not Detected	20
2,6-Dichlorophenol	77541	Not Detected	10
Hexachlorobutadiene	38702	Not Detected	10
n-Nitroso-di-n-butylamine	73609	Not Detected	10
4-Chloro-3-methylphenol	34452	Not Detected	20
2-Methylnaphthalene	77416	Not Detected	10
1,2,4,5-Tetrachlorobenzene	77734	Not Detected	10
Hexachlorocyclopentadiene	34386	Not Detected	10
2,4,6-Trichlorophenol	34621	Not Detected	10
2,4,5-Trichlorophenol	77687	Not Detected	10
2-Fluorobiphenyl(Surrogate QC Std.)		90.8	
2-Chloronaphthalene	34581	Not Detected	10
1-Chloronaphthalene		Not Detected	10

Data for Semivolatile water sample (8270) (continued):

Component Name		Result	Component MDL
2-Nitroaniline	78142	Not Detected	50
Dimethylphthalate	34341	Not Detected	10
Acenaphthylene	34200	Not Detected	10
2,6-Dinitrotoluene	34626	Not Detected	10
3-Nitroaniline	78300	Not Detected	50
Acenaphthene	34205	Not Detected	10
2,4-Dinitrophenol	34616	Not Detected	50
4-Nitrophenol	34646	Not Detected	50
Dibenzofuran	81302	Not Detected	10
Pentachlorobenzene	77793	Not Detected	10
2,4-Dinitrotoluene	34611	Not Detected	10
1-Naphthylamine	73600	Not Detected	10
2-Naphthylamine	73601	Not Detected	10
2,3,4,6-Tetrachlorophenol		Not Detected	10
Diethylphthalate	34336	Not Detected	10
Fluorene	34381	Not Detected	10
4-Chlorophenyl-phenylether	34641	Not Detected	10
4-Nitroaniline	30342	Not Detected	20
Diphenylamine		Not Detected	10
4,6-Dinitro-2-methylphenol	34657	Not Detected	50
n-Nitrosodiphenylamine	34433	Not Detected	10
1,2-Diphenylhydrazine	34346	Not Detected	10
2,4,6-Tribromophenol(Surrogate QC Std.)		82.8	
4-Bromophenyl-phenylether	34636	Not Detected	10
Phenacetin		Not Detected	20
Hexachlorobenzene	39700	Not Detected	10
4-Aminobiphenyl	77581	Not Detected	20
Pentachlorophenol	39032	Not Detected	50
Pronamide	39080	Not Detected	10
Pentachloronitrobenzene	81316	Not Detected	20
Phenanthrene	34461	Not Detected	10
Anthracene	34220	Not Detected	10
Di-n-butylphthalate	39110	Not Detected	10
Fluoranthene	34376	Not Detected	10
Benzidine	39120	Not Detected	10
Pyrene	34469	Not Detected	10
Terphenyl-d14(Surrogate QC Std.)		94.8	
p-Dimethylaminoazobenzene	73558	Not Detected	10
Butylbenzylphthalate	34292	Not Detected	10
Benzo[a]anthracene	34526	Not Detected	10
3,3'-Dichlorobenzidine	34631	Not Detected	20
Chyrsene	34320	Not Detected	10
bis(2-Ethylhexyl)phthalate	39100	Not Detected	10
Di-n-octylphthalate	34596	Not Detected	10
Benzo[b]fluoranthene	34230	Not Detected	10
Benzo[k]fluoranthene	34242	Not Detected	10
7,12-Dimethylbenz(a)anthracene	73559	Not Detected	10
Benzo[a]pyrene	34247	Not Detected	10
3-Methylcholanthrene	73591	Not Detected	10
Dibenz(a,j)acridine		Not Detected	10
Indeno[1,2,3-cd]pyrene	34403	Not Detected	10

Data for Semivolatile water sample (8270) (continued):

Component Name		Result	Component MDL
Dibenz[a,h]anthracene	34556	Not Detected	10
Benzo[g,h,i]perylene	34521	Not Detected	10
Pyridine	77045	Not Detected	10
ALPHA BHC	39337	Not Detected	10
GAMMA BHC	39340	Not Detected	10
BETA BHC	39338	Not Detected	10
DELTA BHC	34259	Not Detected	10
HEPTACHLOR	39410	Not Detected	10
ALDRIN	39330	Not Detected	10
HEPTACHLOR EPOXIDE	39420	Not Detected	25
ENDOSULFAN 1	34361	Not Detected	50
DIELDRIN	39380	Not Detected	10
P,P' DDE	39320	Not Detected	10
ENDRIN	39390	Not Detected	20
ENDOSULFAN 2	34356	Not Detected	50
P,P' DDD	39310	Not Detected	10
ENDRIN ALDEHYDE	34366	Not Detected	10
ENDOSULFAN SULFATE	34351	Not Detected	25
P,P' DDT	39300	Not Detected	10
3,4,5-Trichlorophenol		10 TIE**	

**Tentatively Identified/Estimated Value **

Data for ICP METALS FOR HAZARDOUS WASTE ug/l:

Component Name		Result	Component MDL
Silver	01077	Not Detected	30
Barium	01007	27	10
Cadmium	01027	Not Detected	5
Chromium	01034	Not Detected	20
Nickel	01067	Not Detected	20

If there are any questions regarding this data, please call.

SUPERVISOR

From: Georgia Dept. of Natural Resources
Environmental Protection Div. Laboratory
455 14th Street NW
Atlanta, GA 30318

RECEIVED
JUL 15 1996
HAZARDOUS WASTE MANAGEMENT BRANCH

July 3, 1996

To: E. Williams
D. Heater
HWMB

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AB19269 Source ID#: ADHOC
DNR project: HW
sample description: BROCKWAY STANDARD HW60101
Sample Collector: WMS/HEATER
Sample collection date: 06/11/96 Time: 11:45
Lab submittal date: 06/12/96 Time: 09:59
DNR Lab reference: HW60101 LABORATORY: METALS

Parameter	Result	Units	MDL
EPA Method 8260 Water	see below	ug/L	5
Semivolatile water sample (8270)	see below	ug/l	10
Extraction 3510 SemiVol. L/L	990ml	ml	
ICP METALS FOR HAZARDOUS WASTE	see below	ug/l	

Data for EPA Method 8260 Water ug/L:

Component Name		Result	Component MDL
Dichlorodifluoromethane	34668	Not Detected	5
Chloromethane	34418	Not Detected	10
Bromomethane	34413	Not Detected	10
Vinyl Chloride	39175	Not Detected	10
Chloroethane	34311	Not Detected	10
Methylene Chloride	34423	Not Detected	5
Trichlorofluoromethane	34488	Not Detected	5
Acetone	81552	Not Detected	100
Dibromomethane	77596	Not Detected	5
trans-1,2-Dichloroethene	34546	Not Detected	5
Iodomethane	77424	Not Detected	5
Carbon Disulfide	77041	Not Detected	5
1,1-Dichloroethene	34501	Not Detected	5
1,1-Dichloroethane	34496	Not Detected	5
cis-1,2-Dichloroethene	77093	Not Detected	5
2,2-Dichloropropane	77170	Not Detected	5
Bromochloromethane	77297	Not Detected	5
Chloroform	32106	Not Detected	5
Dibromofluoromethane(Surrogate QC Std.)		18.5	0
1,1-Dichloropropene	77168	Not Detected	5
1,2-Dichloroethane	32103	Not Detected	5

Data for EPA Method 8260 Water (continued):

Component Name		Result	Component MDL
2-Butanone	81595	Not Detected	100
1,1,1-Trichloroethane	34506	Not Detected	5
Carbon Tetrachloride	32102	Not Detected	5
Vinyl Acetate	77057	Not Detected	50
Bromodichloromethane	32101	Not Detected	5
1,2-Dichloropropane	34541	Not Detected	5
Trichloroethene	39180	Not Detected	5
Benzene	34030	Not Detected	5
2-Chloroethyl vinyl ether	34576	Not Detected	5
cis-1,3-Dichloropropene	34704	Not Detected	5
trans-1,3-Dichloropropene	34699	Not Detected	5
Dibromochloromethane	32105	Not Detected	5
1,1,2-Trichloroethane	34511	Not Detected	5
Bromoform	32104	Not Detected	5
1,2,3-Trichloropropane	77443	Not Detected	5
4-Methyl-2-Pentanone	81596	Not Detected	50
2-Hexanone	77103	Not Detected	50
Tetrachloroethene	34475	Not Detected	5
1,3-Dichloropropane	77173	Not Detected	5
1,1,2,2-Tetrachloroethane	34516	Not Detected	5
Toluene-d8(Surrogate QC Std.)		20.4	0
Toluene	34010	Not Detected	5
1,2-Dibromoethane	77651	Not Detected	5
Chlorobenzene	34301	Not Detected	5
Ethylbenzene	34371	Not Detected	5
1,1,1,2-Tetrachloroethane	77562	Not Detected	5
Bromofluorobenzene(Surrogate QC Std.)		19.4	0
Styrene	77128	Not Detected	5
p,m-Xylene	77135	Not Detected	5
o-Xylene	77135	Not Detected	5
Isopropylbenzene	77223	Not Detected	5
Bromobenzene	81555	Not Detected	5
n-Propylbenzene	77224	Not Detected	5
2-Chlorotoluene	77275	Not Detected	5
1,3,5-Trimethylbenzene	77226	Not Detected	5
4-Chlorotoluene	77277	Not Detected	5
tert-Butylbenzene	77353	Not Detected	5
1,2,4-Trimethylbenzene	77222	Not Detected	5
sec-Butylbenzene	77350	Not Detected	5
1,3-Dichlorobenzene	34566	Not Detected	5
p-Isopropyltoluene	77356	Not Detected	5
1,4-Dichlorobenzene	34571	Not Detected	5
n-Butylbenzene	77342	Not Detected	5
1,2-Dichlorobenzene	34536	Not Detected	5
1,2-Dibromo-3-chloropropane	38487	Not Detected	5
1,2,4-Trichlorobenzene	34551	Not Detected	5
Hexachlorobutadiene	38702	Not Detected	5
Naphthalene	34696	Not Detected	5
1,2,3-Trichlorobenzene	77613	Not Detected	5

Data for Semivolatile water sample (8270) ug/l:

Component Name		Result	Component MDL
n-Nitrosodimethylamine	34438	Not Detected	10
2-Picoline	77088	Not Detected	10
Methylmethanesulfonate	73595	Not Detected	10
2-Fluorophenol(Surrogate QC Std.)		**Not Analyzed**	
Ethylmethanesulfonate	73571	Not Detected	20
Aniline	77089	Not Detected	10
Phenol-d5(Surrogate QC Std.)		**Not Analyzed**	
Phenol	34694	Not Analyzed	10
bis(2-Chloroethyl)ether	34273	Not Detected	10
2-Chlorophenol	34586	Not Analyzed	10
1,3-Dichlorobenzene	34566	Not Detected	10
1,4-Dichlorobenzene	34571	Not Analyzed	10
Benzyl alcohol	77147	Not Detected	20
1,2-Dichlorobenzene	34536	Not Detected	10
2-Methylphenol		Not Detected	10
bis(2-Chloroisopropyl)ether	34283	Not Detected	10
Acetophenone	81553	Not Detected	10
4-Methylphenol		Not Detected	10
n-Nitroso-di-n-propylamine	34428	Not Analyzed	10
Hexachloroethane	34396	Not Detected	10
Nitrobenzene-d5(Surrogate QC Std.)		**Not Analyzed**	
Nitrobenzene	34447	Not Detected	10
n-Nitrosopiperidine	73619	Not Detected	20
Isophorone	34408	Not Detected	10
2-Nitrophenol	34591	Not Detected	10
2,4-Dimethylphenol	34606	Not Detected	10
bis(2-Chloroethoxy)methane	34278	Not Detected	10
Benzoic acid	77247	Not Detected	50
2,4-Dichlorophenol	34601	Not Detected	10
1,2,4-Trichlorobenzene	34551	Not Analyzed	10
aa-dimethyl-Phenethylamine	73564	Not Detected	10
Naphthalene	34696	Not Detected	10
4-Chloroaniline	73529	Not Detected	20
2,6-Dichlorophenol	77541	Not Detected	10
Hexachlorobutadiene	38702	Not Detected	10
n-Nitroso-di-n-butylamine	73609	Not Detected	10
4-Chloro-3-methylphenol	34452	Not Analyzed	20
2-Methylnaphthalene	77416	Not Detected	10
1,2,4,5-Tetrachlorobenzene	77734	Not Detected	10
Hexachlorocyclopentadiene	34386	Not Detected	10
2,4,6-Trichlorophenol	34621	Not Detected	10
2,4,5-Trichlorophenol	77687	Not Detected	10
2-Fluorobiphenyl(Surrogate QC Std.)		**Not Analyzed**	
2-Chloronaphthalene	34581	Not Detected	10
1-Chloronaphthalene		Not Detected	10
2-Nitroaniline	78142	Not Detected	50
Dimethylphthalate	34341	Not Detected	10
Acenaphthylene	34200	Not Detected	10
2,6-Dinitrotoluene	34626	Not Detected	10
3-Nitroaniline	78300	Not Detected	50
Acenaphthene	34205	Not Analyzed	10

Data for Semivolatile water sample (8270) (continued):

Component Name		Result	Component MDL
2,4-Dinitrophenol	34616	Not Detected	50
4-Nitrophenol	34646	Not Analyzed	50
Dibenzofuran	81302	Not Detected	10
Pentachlorobenzene	77793	Not Detected	10
2,4-Dinitrotoluene	34611	Not Analyzed	10
1-Naphthylamine	73600	Not Detected	10
2-Naphthylamine	73601	Not Detected	10
2,3,4,6-Tetrachlorophenol		Not Detected	10
Diethylphthalate	34336	Not Detected	10
Fluorene	34381	Not Detected	10
4-Chlorophenyl-phenylether	34641	Not Detected	10
4-Nitroaniline	30342	Not Detected	20
Diphenylamine		Not Detected	10
4,6-Dinitro-2-methylphenol	34657	Not Detected	50
n-Nitrosodiphenylamine	34433	Not Detected	10
1,2-Diphenylhydrazine	34346	Not Detected	10
2,4,6-Tribromophenol(Surrogate QC Std.)		**Not Analyzed**	
4-Bromophenyl-phenylether	34636	Not Detected	10
Phenacetin		Not Detected	20
Hexachlorobenzene	39700	Not Detected	10
4-Aminobiphenyl	77581	Not Detected	20
Pentachlorophenol	39032	Not Analyzed	50
Pronamide	39080	Not Detected	10
Pentachloronitrobenzene	81316	Not Detected	20
Phenanthrene	34461	Not Detected	10
Anthracene	34220	Not Detected	10
Di-n-butylphthalate	39110	Not Detected	10
Fluoranthene	34376	Not Detected	10
Benzidine	39120	Not Detected	10
Pyrene	34469	Not Analyzed	10
Terphenyl-d14(Surrogate QC Std.)		**Not Analyzed**	
p-Dimethylaminoazobenzene	73558	Not Detected	10
Butylbenzylphthalate	34292	Not Detected	10
Benzo[a]anthracene	34526	Not Detected	10
3,3'-Dichlorobenzidine	34631	Not Detected	20
Chyrsene	34320	Not Detected	10
bis(2-Ethylhexyl)phthalate	39100	Not Detected	10
Di-n-octylphthalate	34596	Not Detected	10
Benzo[b]fluoranthene	34230	Not Detected	10
Benzo[k]fluoranthene	34242	Not Detected	10
7,12-Dimethylbenz(a)anthracene	73559	Not Detected	10
Benzo[a]pyrene	34247	Not Detected	10
3-Methylcholanthrene	73591	Not Detected	10
Dibenz(a,j)acridine		Not Detected	10
Indeno[1,2,3-cd]pyrene	34403	Not Detected	10
Dibenz[a,h]anthracene	34556	Not Detected	10
Benzo[g,h,i]perylene	34521	Not Detected	10
Pyridine	77045	Not Detected	10
ALPHA BHC	39337	Not Detected	10
GAMMA BHC	39340	Not Detected	10
BETA BHC	39338	Not Detected	10

Data for Semivolatile water sample (8270) (continued):

Component Name		Result	Component MDL
DELTA BHC	34259	Not Detected	10
HEPTACHLOR	39410	Not Detected	10
ALDRIN	39330	Not Detected	10
HEPTACHLOR EPOXIDE	39420	Not Detected	25
ENDOSULFAN 1	34361	Not Detected	50
DIELDRIN	39380	Not Detected	10
P,P' DDE	39320	Not Detected	10
ENDRIN	39390	Not Detected	20
ENDOSULFAN 2	34356	Not Detected	50
P,P' DDD	39310	Not Detected	10
ENDRIN ALDEHYDE	34366	Not Detected	10
ENDOSULFAN SULFATE	34351	Not Detected	25
P,P' DDT	39300	Not Detected	10

Data for ICP METALS FOR HAZARDOUS WASTE ug/l:

Component Name		Result	Component MDL
Silver	01077	Not Detected	30
Arsenic	01002	Not Detected	30
Barium	01007	27	10
Cadmium	01027	Not Detected	5
Chromium	01034	27	20
Nickel	01067	Not Detected	20
Lead	01051	140	50
Selenium	01147	Not Detected	50

Summary of specification violations or warnings:

Analyte: 2-Fluorophenol(Surrogate QC Std.)
Target value: 100 Result: Not Analyzed

Analyte: Phenol-d5(Surrogate QC Std.)
Target value: 100 Result: Not Analyzed

Analyte: Nitrobenzene-d5(Surrogate QC Std.)
Target value: 100 Result: Not Analyzed

Analyte: 2-Fluorobiphenyl(Surrogate QC Std.)
Target value: 100 Result: Not Analyzed

Analyte: 2,4,6-Tribromophenol(Surrogate QC Std.)
Target value: 100 Result: Not Analyzed

Analyte: Terphenyl-d14(Surrogate QC Std.)
Target value: 100 Result: Not Analyzed

Sample comments:

SW-1. Surface water sample in wetlands area.
Bottle for the pesticide analysis was accidently broken in the lab.

Method 8270 analysis - Surrogates and Matrix spike compounds are reported as "Not Analyzed" due to a laboratory mistake made during the sample extraction proceedure.

If there are any questions regarding this data, please call.

SUPERVISOR

From: Georgia Dept. of Natural Resources
Environmental Protection Div. Laboratory
455 14th Street NW
Atlanta, GA 30318

July 17, 1996

To: E. Williams
D. Heater
HWMB

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AB19276 Source ID#: ADHOC
DNR project: HW
sample description: BROCKWAY STANDARD HW60102 (sed 1, wetlands)
Sample Collector: WMS/HEATER
Sample collection date: 06/11/96 Time: 12:00
Lab submittal date: 06/12/96 Time: 09:59
DNR Lab reference: HW60102 LABORATORY: METALS

Parameter	Result	Units	MDL
EPA Method 8260 Soil	see below	ug/kg	5
Semivolatile Soil/Sed (8270)	see below	ug/kg	660
ICP METALS FOR HW SOLIDS	see below	mg/kg	

Data for EPA Method 8260 Soil ug/kg:

Component Name		Result	Component MDL
Dichlorodifluoromethane	34334	Not Detected	5
Chloromethane	34421	Not Detected	10
Bromomethane	34416	Not Detected	10
Vinyl Chloride	34495	Not Detected	10
Chloroethane	34314	Not Detected	10
Methylene Chloride	34426	Not Detected	5
Trichlorofluoromethane	34491	Not Detected	5
Acetone	75059	Not Detected	100
Dibromomethane	78756	Not Detected	5
trans-1,2-Dichloroethene	34549	Not Detected	5
Iodomethane	73121	Not Detected	5
Carbon Disulfide	78544	Not Detected	5
1,1-Dichloroethene	34504	Not Detected	5
1,1-Dichloroethane	34499	Not Detected	5
cis-1,2-Dichloroethene	77093	Not Detected	5
2,2-Dichloropropane	77170	Not Detected	5
Bromochloromethane	77297	Not Detected	5
Chloroform	34318	Not Detected	5
Dibromofluoromethane(Surrogate QC Std.)		17.9	
1,1-Dichloropropene	77168	Not Detected	5
1,2-Dichloroethane	34534	Not Detected	5
2-Butanone	75078	Not Detected	100

Data for EPA Method 8260 Soil (continued):

Component Name		Result	Component MDL
1,1,1-Trichloroethane	34509	Not Detected	5
Carbon Tetrachloride	34299	Not Detected	5
Vinyl Acetate	78498	Not Detected	50
Bromodichloromethane	34330	Not Detected	5
1,2-Dichloropropane	34544	Not Detected	5
Trichloroethene	34487	Not Detected	5
Benzene	34237	Not Detected	5
2-Chloroethyl vinyl ether	34579	Not Detected	5
cis-1,3-Dichloropropene	34702	Not Detected	5
trans-1,3-Dichloropropene	34697	Not Detected	5
Dibromochloromethane	34309	Not Detected	5
1,1,2-Trichloroethane	34514	Not Detected	5
Bromoform	34290	Not Detected	5
1,2,3-Trichloropropane	78490	Not Detected	5
4-Methyl-2-Pentanone	75169	Not Detected	50
2-Hexanone	75166	Not Detected	50
Tetrachloroethene	34478	Not Detected	5
1,3-Dichloropropane	77173	Not Detected	5
1,1,2,2-Tetrachloroethane	34519	Not Detected	5
Toluene-d8(Surrogate QC Std.)		22.4	
Toluene	34483	Trace*	5
1,2-Dibromoethane	79749	Not Detected	5
Chlorobenzene	34304	Not Detected	5
Ethylbenzene	34374	Not Detected	5
1,1,1,2-Tetrachloroethane		Not Detected	5
Bromofluorobenzene(Surrogate QC Std.)		15.8	
Styrene	75192	Not Detected	5
p,m-Xylene	45510	Trace*	5
o-Xylene	78362	Not Detected	5
Isopropylbenzene	77223	Not Detected	5
Bromobenzene	78491	Not Detected	5
n-Propylbenzene	77224	Trace*	5
2-Chlorotoluene	77225	Not Detected	5
1,3,5-Trimethylbenzene	77226	Not Detected	5
4-Chlorotoluene	77277	Not Detected	5
tert-Butylbenzene	77353	Not Detected	5
1,2,4-Trimethylbenzene	34554	22.7	5
sec-Butylbenzene	77350	Not Detected	5
1,3-Dichlorobenzene	34569	Not Detected	5
p-Isopropyltoluene	77356	Not Detected	5
1,4-Dichlorobenzene	34574	Not Detected	5
n-Butylbenzene	77342	Not Detected	5
1,2-Dichlorobenzene	34539	Not Detected	5
1,2-Dibromo-3-chloropropane		Not Detected	5
1,2,4-Trichlorobenzene	34554	Not Detected	5
Hexachlorobutadiene	39705	Not Detected	5
Naphthalene	34445	Trace*	5
1,2,3-Trichlorobenzene	77613	Not Detected	5
Total Hydrocarbon Fractions		158 TIE**	

*Less than quantitation limits *
**Tentatively identified/estimated value **

Data for Semivolatile Soil/Sed (8270) ug/kg:

Component Name		Result	Component MDL
n-Nitrosodimethylamine	34441	Not Detected	660
2-Picoline	73310	Not Detected	660
Methylmethanesulfonate	73119	Not Detected	660
2-Fluorophenol(Surrogate QC Std.)		**1.4**	
Ethylmethanesulfonate	73118	Not Detected	660
Aniline	73185	Not Detected	660
Phenol-d5(Surrogate QC Std.)		**11.3**	
Phenol	34695	Not Detected	660
bis(2-Chloroethyl)ether	34276	Not Detected	660
2-Chlorophenol	34589	Not Detected	660
1,3-Dichlorobenzene	34569	Not Detected	660
1,4-Dichlorobenzene	34574	Not Detected	660
Benzyl alcohol	75212	Not Detected	1300
1,2-Dichlorobenzene	34539	Not Detected	660
2-Methylphenol		Not Detected	660
bis(2-Chloroisopropyl)ether	34286	Not Detected	660
Acetophenone	73272	Not Detected	660
4-Methylphenol		Not Detected	660
n-Nitroso-di-n-propylamine	34428	Not Detected	660
Hexachloroethane	34399	Not Detected	660
Nitrobenzene-d5(Surrogate QC Std.)		44.3	
Nitrobenzene	34450	Not Detected	660
n-Nitrosopiperidine	73129	Not Detected	660
Isophorone	34411	Not Detected	660
2-Nitrophenol	34594	Not Detected	660
2,4-Dimethylphenol	34609	Not Detected	660
bis(2-Chloroethoxy)methane	34281	Not Detected	660
Benzoic acid	75315	Not Detected	3300
2,4-Dichlorophenol	34604	Not Detected	660
1,2,4-Trichlorobenzene	34554	Not Detected	660
aa-dimethyl-Phenethylamine	73136	Not Detected	660
Naphthalene	34445	Not Detected	660
4-Chloroaniline	78867	Not Detected	1300
2,6-Dichlorophenol	73122	Not Detected	660
Hexachlorobutadiene	38705	Not Detected	660
n-Nitroso-di-n-butylamine	73159	Not Detected	660
4-Chloro-3-methylphenol	34455	Not Detected	1300
2-Methylnaphthalene	78868	Not Detected	660
1,2,4,5-Tetrachlorobenzene	79787	Not Detected	660
Hexachlorocyclopentadiene	34389	Not Detected	660
2,4,6-Trichlorophenol	34624	Not Detected	660
2,4,5-Trichlorophenol	78401	Not Detected	660
2-Fluorobiphenyl(Surrogate QC Std.)		42.1	
2-Chloronaphthalene	34584	Not Detected	660
1-Chloronaphthalene		Not Detected	660
2-Nitroaniline	78299	Not Detected	3300
Dimethylphthalate	34344	Not Detected	660
Acenaphthylene	34203	Not Detected	660
2,6-Dinitrotoluene	34629	Not Detected	660
3-Nitroaniline	78869	Not Detected	3300
Acenaphthene	34208	Not Detected	660

Data for Semivolatile Soil/Sed (8270) (continued):

Component Name		Result	Component MDL
2,4-Dinitrophenol	34619	Not Detected	3300
4-Nitrophenol	34649	Not Detected	3300
Dibenzofuran	75647	Not Detected	660
Pentachlorobenzene	79790	Not Detected	660
2,4-Dinitrotoluene	34614	Not Detected	660
1-Naphthylamine	73143	Not Detected	660
2-Naphthylamine	73124	Not Detected	660
2,3,4,6-Tetrachlorophenol		Not Detected	660
Diethylphthalate	34339	Not Detected	660
Fluorene	34384	Not Detected	660
4-Chlorophenyl-phenylether	34644	Not Detected	660
4-Nitroaniline	78870	Not Detected	660
Diphenylamine		Not Detected	660
4,6-Dinitro-2-methylphenol	34660	Not Detected	3300
n-Nitrosodiphenylamine	34436	Not Detected	660
1,2-Diphenylhydrazine	34349	Not Detected	660
2,4,6-Tribromophenol(Surrogate QC Std.)		**1.8**	
4-Bromophenyl-phenylether	34639	Not Detected	660
Phenacetin	73117	Not Detected	660
Hexachlorobenzene	39701	Not Detected	660
4-Aminobiphenyl	73125	Not Detected	660
Pentachlorophenol	39061	Not Detected	3300
Pronamide	73031	Not Detected	660
Pentachloronitrobenzene	81808	Not Detected	660
Phenanthrene	34464	Not Detected	660
Anthracene	34223	Not Detected	660
Di-n-butylphthalate	39112	Not Detected	660
Fluoranthene	34379	Not Detected	660
Benzidine	39121	Not Detected	660
Pyrene	34472	Not Detected	660
Terphenyl-d14(Surrogate QC Std.)		49.9	
p-Dimethylaminoazobenzene	73116	Not Detected	660
Butylbenzylphthalate	34295	Not Detected	660
Benzo[a]anthracene	34529	Not Detected	660
3,3'-Dichlorobenzidine	34634	Not Detected	1300
Chyrsene	34323	Not Detected	660
bis(2-Ethylhexyl)phthalate	39102	Not Detected	660
Di-n-octylphthalate	34599	Not Detected	660
Benzo[b]fluoranthene	34233	Not Detected	660
Benzo[k]fluoranthene	34245	Not Detected	660
7,12-Dimethylbenz(a)anthracene	73115	Not Detected	660
Benzo[a]pyrene	34250	Not Detected	660
3-Methylcholanthrene	73156	Not Detected	660
Dibenz(a,j)acridine		Not Detected	660
Indeno[1,2,3-cd]pyrene	34406	Not Detected	660
Dibenz[a,h]anthracene	34559	Not Detected	660
Benzo[g,h,i]perylene	34524	Not Detected	660
Pyridine	73312	Not Detected	660
ALPHA BHC	39076	Not Detected	660
GAMMA BHC	39343	Not Detected	660
BETA BHC	34257	Not Detected	660

Data for Semivolatile Soil/Sed (8270) (continued):

Component Name		Result	Component MDL
DELTA BHC	34262	Not Detected	660
HEPTACHLOR	39413	Not Detected	660
ALDRIN	39333	Not Detected	660
HEPTACHLOR EPOXIDE	39423	Not Detected	1650
ENDOSULFAN 1	34364	Not Detected	3300
DIELDRIN	39383	Not Detected	660
P,P' DDE	39321	Not Detected	660
ENDRIN	39393	Not Detected	1320
ENDOSULFAN 2	34359	Not Detected	3300
P,P' DDD	39311	Not Detected	660
ENDRIN ALDEHYDE	34369	Not Detected	660
ENDOSULFAN SULFATE	34354	Not Detected	1650
P,P' DDT	39301	Not Detected	660

Data for ICP METALS FOR HW SOLIDS mg/kg:

Component Name		Result	Component MDL
Silver	01078	Not Detected	3
Arsenic	01003	Not Detected	3
Barium	01008	260	1
Cadmium	01028	22	1
Chromium	01029	730	2
Lead	01052	3200	5
Nickel	01068	140	2
Selenium	01148	5.6	5

Summary of specification violations or warnings:

Analyte: 2-Fluorophenol(Surrogate QC Std.)
Lower specification value: 25 Result: 1.4

Analyte: Phenol-d5(Surrogate QC Std.)
Lower specification value: 24 Result: 11.3

Analyte: 2,4,6-Tribromophenol(Surrogate QC Std.)
Lower specification value: 19 Result: 1.8

If there are any questions regarding this data, please call.

SUPERVISOR

From: Georgia Dept. of Natural Resources
Environmental Protection Div. Laboratory
455 14th Street NW
Atlanta, GA 30318

RECEIVED
JUL 15 1996
HAZARDOUS WASTE MANAGEMENT

July 3, 1996

To: E. Williams
D. Heater
HWMB

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AB19278 Source ID#: ADHOC
DNR project: HW
sample description: BROCKWAY STANDARD HW60103
Sample Collector: WMS/HEATER
Sample collection date: 06/11/96 Time: 12:45
Lab submittal date: 06/12/96 Time: 09:59
DNR Lab reference: HW60103 LABORATORY: METALS

Parameter	Result	Units	MDL
EPA Method 8260 Water	see below	ug/L	5
Semivolatile water sample (8270)	see below	ug/l	10
Extraction 3510 SemiVol. L/L	990ml	ml	
ICP METALS FOR HAZARDOUS WASTE	see below	ug/l	

Data for EPA Method 8260 Water ug/L:

Component Name		Result	Component MDL
Dichlorodifluoromethane	34668	Not Detected	5
Chloromethane	34418	Not Detected	10
Bromomethane	34413	Not Detected	10
Vinyl Chloride	39175	Not Detected	10
Chloroethane	34311	Not Detected	10
Methylene Chloride	34423	Not Detected	5
Trichlorofluoromethane	34488	Not Detected	5
Acetone	81552	Not Detected	100
Dibromomethane	77596	Not Detected	5
trans-1,2-Dichloroethene	34546	Not Detected	5
Iodomethane	77424	Not Detected	5
Carbon Disulfide	77041	Not Detected	5
1,1-Dichloroethene	34501	Not Detected	5
1,1-Dichloroethane	34496	Not Detected	5
cis-1,2-Dichloroethene	77093	Not Detected	5
2,2-Dichloropropane	77170	Not Detected	5
Bromochloromethane	77297	Not Detected	5
Chloroform	32106	Not Detected	5
Dibromofluoromethane(Surrogate QC Std.)		18.5	0
1,1-Dichloropropene	77168	Not Detected	5
1,2-Dichloroethane	32103	Not Detected	5

Data for EPA Method 8260 Water (continued):

Component Name		Result	Component MDL
2-Butanone	81595	Not Detected	100
1,1,1-Trichloroethane	34506	Not Detected	5
Carbon Tetrachloride	32102	Not Detected	5
Vinyl Acetate	77057	Not Detected	50
Bromodichloromethane	32101	Not Detected	5
1,2-Dichloropropane	34541	Not Detected	5
Trichloroethene	39180	Not Detected	5
Benzene	34030	Not Detected	5
2-Chloroethyl vinyl ether	34576	Not Detected	5
cis-1,3-Dichloropropene	34704	Not Detected	5
trans-1,3-Dichloropropene	34699	Not Detected	5
Dibromochloromethane	32105	Not Detected	5
1,1,2-Trichloroethane	34511	Not Detected	5
Bromoform	32104	Not Detected	5
1,2,3-Trichloropropane	77443	Not Detected	5
4-Methyl-2-Pentanone	81596	Not Detected	50
2-Hexanone	77103	Not Detected	50
Tetrachloroethene	34475	Not Detected	5
1,3-Dichloropropane	77173	Not Detected	5
1,1,2,2-Tetrachloroethane	34516	Not Detected	5
Toluene-d8(Surrogate QC Std.)		20.7	0
Toluene	34010	Not Detected	5
1,2-Dibromoethane	77651	Not Detected	5
Chlorobenzene	34301	Not Detected	5
Ethylbenzene	34371	Not Detected	5
1,1,1,2-Tetrachloroethane	77562	Not Detected	5
Bromofluorobenzene(Surrogate QC Std.)		19.6	0
Styrene	77128	Not Detected	5
p,m-Xylene	77135	Not Detected	5
o-Xylene	77135	Not Detected	5
Isopropylbenzene	77223	Not Detected	5
Bromobenzene	81555	Not Detected	5
n-Propylbenzene	77224	Not Detected	5
2-Chlorotoluene	77275	Not Detected	5
1,3,5-Trimethylbenzene	77226	Not Detected	5
4-Chlorotoluene	77277	Not Detected	5
tert-Butylbenzene	77353	Not Detected	5
1,2,4-Trimethylbenzene	77222	Not Detected	5
sec-Butylbenzene	77350	Not Detected	5
1,3-Dichlorobenzene	34566	Not Detected	5
p-Isopropyltoluene	77356	Not Detected	5
1,4-Dichlorobenzene	34571	Not Detected	5
n-Butylbenzene	77342	Not Detected	5
1,2-Dichlorobenzene	34536	Not Detected	5
1,2-Dibromo-3-chloropropane	38487	Not Detected	5
1,2,4-Trichlorobenzene	34551	Not Detected	5
Hexachlorobutadiene	38702	Not Detected	5
Naphthalene	34696	Not Detected	5
1,2,3-Trichlorobenzene	77613	Not Detected	5

Data for Semivolatile water sample (8270) ug/l:

Component Name		Result	Component MDL
n-Nitrosodimethylamine	34438	Not Detected	10
2-Picoline	77088	Not Detected	10
Methylmethanesulfonate	73595	Not Detected	10
2-Fluorophenol(Surrogate QC Std.)		36.4	
Ethylmethanesulfonate	73571	Not Detected	20
Aniline	77089	Not Detected	10
Phenol-d5(Surrogate QC Std.)		32.9	
Phenol	34694	Not Detected	10
bis(2-Chloroethyl)ether	34273	Not Detected	10
2-Chlorophenol	34586	Not Detected	10
1,3-Dichlorobenzene	34566	Not Detected	10
1,4-Dichlorobenzene	34571	Not Detected	10
Benzyl alcohol	77147	Not Detected	20
1,2-Dichlorobenzene	34536	Not Detected	10
2-Methylphenol		Not Detected	10
bis(2-Chloroisopropyl)ether	34283	Not Detected	10
Acetophenone	81553	Not Detected	10
4-Methylphenol		Not Detected	10
n-Nitroso-di-n-propylamine	34428	Not Detected	10
Hexachloroethane	34396	Not Detected	10
Nitrobenzene-d5(Surrogate QC Std.)		90.2	
Nitrobenzene	34447	Not Detected	10
n-Nitrosopiperidine	73619	Not Detected	20
Isophorone	34408	Not Detected	10
2-Nitrophenol	34591	Not Detected	10
2,4-Dimethylphenol	34606	Not Detected	10
bis(2-Chloroethoxy)methane	34278	Not Detected	10
Benzoic acid	77247	Not Detected	50
2,4-Dichlorophenol	34601	Not Detected	10
1,2,4-Trichlorobenzene	34551	Not Detected	10
aa-dimethyl-Phenethylamine	73564	Not Detected	10
Naphthalene	34696	Not Detected	10
4-Chloroaniline	73529	Not Detected	20
2,6-Dichlorophenol	77541	Not Detected	10
Hexachlorobutadiene	38702	Not Detected	10
n-Nitroso-di-n-butylamine	73609	Not Detected	10
4-Chloro-3-methylphenol	34452	Not Detected	20
2-Methylnaphthalene	77416	Not Detected	10
1,2,4,5-Tetrachlorobenzene	77734	Not Detected	10
Hexachlorocyclopentadiene	34386	Not Detected	10
2,4,6-Trichlorophenol	34621	Not Detected	10
2,4,5-Trichlorophenol	77687	Not Detected	10
2-Fluorobiphenyl(Surrogate QC Std.)		89.5	
2-Chloronaphthalene	34581	Not Detected	10
1-Chloronaphthalene		Not Detected	10
2-Nitroaniline	78142	Not Detected	50
Dimethylphthalate	34341	Not Detected	10
Acenaphthylene	34200	Not Detected	10
2,6-Dinitrotoluene	34626	Not Detected	10
3-Nitroaniline	78300	Not Detected	50
Acenaphthene	34205	Not Detected	10

Data for Semivolatile water sample (8270) (continued):

Component Name		Result	Component MDL
2,4-Dinitrophenol	34616	Not Detected	50
4-Nitrophenol	34646	Not Detected	50
Dibenzofuran	81302	Not Detected	10
Pentachlorobenzene	77793	Not Detected	10
2,4-Dinitrotoluene	34611	Not Detected	10
1-Naphthylamine	73600	Not Detected	10
2-Naphthylamine	73601	Not Detected	10
2,3,4,6-Tetrachlorophenol		Not Detected	10
Diethylphthalate	34336	Not Detected	10
Fluorene	34381	Not Detected	10
4-Chlorophenyl-phenylether	34641	Not Detected	10
4-Nitroaniline	30342	Not Detected	20
Diphenylamine		Not Detected	10
4,6-Dinitro-2-methylphenol	34657	Not Detected	50
n-Nitrosodiphenylamine	34433	Not Detected	10
1,2-Diphenylhydrazine	34346	Not Detected	10
2,4,6-Tribromophenol(Surrogate QC Std.)		70.7	
4-Bromophenyl-phenylether	34636	Not Detected	10
Phenacetin		Not Detected	20
Hexachlorobenzene	39700	Not Detected	10
4-Aminobiphenyl	77581	Not Detected	20
Pentachlorophenol	39032	Not Detected	50
Pronamide	39080	Not Detected	10
Pentachloronitrobenzene	81316	Not Detected	20
Phenanthrene	34461	Not Detected	10
Anthracene	34220	Not Detected	10
Di-n-butylphthalate	39110	Not Detected	10
Fluoranthene	34376	Not Detected	10
Benzidine	39120	Not Detected	10
Pyrene	34469	Not Detected	10
Terphenyl-d14(Surrogate QC Std.)		87.6	
p-Dimethylaminoazobenzene	73558	Not Detected	10
Butylbenzylphthalate	34292	Not Detected	10
Benzo[a]anthracene	34526	Not Detected	10
3,3'-Dichlorobenzidine	34631	Not Detected	20
Chyrsene	34320	Not Detected	10
bis(2-Ethylhexyl)phthalate	39100	Not Detected	10
Di-n-octylphthalate	34596	Not Detected	10
Benzo[b]fluoranthene	34230	Not Detected	10
Benzo[k]fluoranthene	34242	Not Detected	10
7,12-Dimethylbenz(a)anthracene	73559	Not Detected	10
Benzo[a]pyrene	34247	Not Detected	10
3-Methylcholanthrene	73591	Not Detected	10
Dibenz(a,j)acridine		Not Detected	10
Indeno[1,2,3-cd]pyrene	34403	Not Detected	10
Dibenz[a,h]anthracene	34556	Not Detected	10
Benzo[g,h,i]perylene	34521	Not Detected	10
Pyridine	77045	Not Detected	10
ALPHA BHC	39337	Not Detected	10
GAMMA BHC	39340	Not Detected	10
BETA BHC	39338	Not Detected	10

Bkgr
SW-2

Data for Semivolatile water sample (8270) (continued):

Component Name		Result	Component MDL
DELTA BHC	34259	Not Detected	10
HEPTACHLOR	39410	Not Detected	10
ALDRIN	39330	Not Detected	10
HEPTACHLOR EPOXIDE	39420	Not Detected	25
ENDOSULFAN 1	34361	Not Detected	50
DIELDRIN	39380	Not Detected	10
P,P' DDE	39320	Not Detected	10
ENDRIN	39390	Not Detected	20
ENDOSULFAN 2	34356	Not Detected	50
P,P' DDD	39310	Not Detected	10
ENDRIN ALDEHYDE	34366	Not Detected	10
ENDOSULFAN SULFATE	34351	Not Detected	25
P,P' DDT	39300	Not Detected	10

Data for ICP METALS FOR HAZARDOUS WASTE ug/l:

Component Name		Result	Component MDL
Silver	01077	Not Detected	30
Arsenic	01002	Not Detected	30
Barium	01007	15	10
Cadmium	01027	Not Detected	5
Chromium	01034	Not Detected	20
Nickel	01067	Not Detected	20
Lead	01051	Not Detected	50
Selenium	01147	Not Detected	50

Sample comments:

SW-2. Surface water sample upgradient wetlands area, background sample.

If there are any questions regarding this data, please call.

SUPERVISOR

From: Georgia Dept. of Natural Resources
Environmental Protection Div. Laboratory
455 14th Street NW
Atlanta, GA 30318

July 17, 1996

To: E. Williams
D. Heater
HWMB

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AB19280 Source ID#: ADHOC
DNR project: HW
sample description: BROCKWAY STANDARD HW60104 (Sed 2, Background)
Sample Collector: WMS/HEATER
Sample collection date: 06/11/96 Time: 13:00
Lab submittal date: 06/12/96 Time: 09:59
DNR Lab reference: HW60104 LABORATORY: METALS

Parameter	Result	Units	MDL
EPA Method 8260 Soil	see below	ug/kg	5
Semivolatile Soil/Sed (8270)	see below	ug/kg	660
ICP METALS FOR HW SOLIDS	see below	mg/kg	

Data for EPA Method 8260 Soil ug/kg:

Component Name		Result	Component MDL
Dichlorodifluoromethane	34334	Not Detected	5
Chloromethane	34421	Not Detected	10
Bromomethane	34416	Not Detected	10
Vinyl Chloride	34495	Not Detected	10
Chloroethane	34314	Not Detected	10
Methylene Chloride	34426	Not Detected	5
Trichlorofluoromethane	34491	Not Detected	5
Acetone	75059	Not Detected	100
Dibromomethane	78756	Not Detected	5
trans-1,2-Dichloroethene	34549	Not Detected	5
Iodomethane	73121	Not Detected	5
Carbon Disulfide	78544	Not Detected	5
1,1-Dichloroethene	34504	Not Detected	5
1,1-Dichloroethane	34499	Not Detected	5
cis-1,2-Dichloroethene	77093	Not Detected	5
2,2-Dichloropropane	77170	Not Detected	5
Bromochloromethane	77297	Not Detected	5
Chloroform	34318	Not Detected	5
Dibromofluoromethane(Surrogate QC Std.)		17.8	0
1,1-Dichloropropene	77168	Not Detected	5
1,2-Dichloroethane	34534	Not Detected	5
2-Butanone	75078	Not Detected	100

Data for EPA Method 8260 Soil (continued):

Component Name		Result	Component MDL
1,1,1-Trichloroethane	34509	Not Detected	5
Carbon Tetrachloride	34299	Not Detected	5
Vinyl Acetate	78498	Not Detected	50
Bromodichloromethane	34330	Not Detected	5
1,2-Dichloropropane	34544	Not Detected	5
Trichloroethene	34487	Not Detected	5
Benzene	34237	Not Detected	5
2-Chloroethyl vinyl ether	34579	Not Detected	5
cis-1,3-Dichloropropene	34702	Not Detected	5
trans-1,3-Dichloropropene	34697	Not Detected	5
Dibromochloromethane	34309	Not Detected	5
1,1,2-Trichloroethane	34514	Not Detected	5
Bromoform	34290	Not Detected	5
1,2,3-Trichloropropane	78490	Not Detected	5
4-Methyl-2-Pentanone	75169	Not Detected	50
2-Hexanone	75166	Not Detected	50
Tetrachloroethene	34478	Not Detected	5
1,3-Dichloropropane	77173	Not Detected	5
1,1,2,2-Tetrachloroethane	34519	Not Detected	5
Toluene-d8(Surrogate QC Std.)		20.7	0
Toluene	34483	Not Detected	5
1,2-Dibromoethane	79749	Not Detected	5
Chlorobenzene	34304	Not Detected	5
Ethylbenzene	34374	Not Detected	5
1,1,1,2-Tetrachloroethane		Not Detected	5
Bromofluorobenzene(Surrogate QC Std.)		17.0	0
Styrene	75192	Not Detected	5
p,m-Xylene	45510	Not Detected	5
o-Xylene	78362	Not Detected	5
Isopropylbenzene	77223	Not Detected	5
Bromobenzene	78491	Not Detected	5
n-Propylbenzene	77224	Not Detected	5
2-Chlorotoluene	77225	Not Detected	5
1,3,5-Trimethylbenzene	77226	Not Detected	5
4-Chlorotoluene	77277	Not Detected	5
tert-Butylbenzene	77353	Not Detected	5
1,2,4-Trimethylbenzene	34554	Not Detected	5
sec-Butylbenzene	77350	Not Detected	5
1,3-Dichlorobenzene	34569	Not Detected	5
p-Isopropyltoluene	77356	Not Detected	5
1,4-Dichlorobenzene	34574	Not Detected	5
n-Butylbenzene	77342	Not Detected	5
1,2-Dichlorobenzene	34539	Not Detected	5
1,2-Dibromo-3-chloropropane		Not Detected	5
1,2,4-Trichlorobenzene	34554	Not Detected	5
Hexachlorobutadiene	39705	Not Detected	5
Naphthalene	34445	Not Detected	5
1,2,3-Trichlorobenzene	77613	Not Detected	5

Data for Semivolatile Soil/Sed (8270) ug/kg:

Component Name		Result	Component MDL
n-Nitrosodimethylamine	34441	Not Detected	660
2-Picoline	73310	Not Detected	660
Methylmethanesulfonate	73119	Not Detected	660
2-Fluorophenol(Surrogate QC Std.)		**16.6**	
Ethylmethanesulfonate	73118	Not Detected	660
Aniline	73185	Not Detected	660
Phenol-d5(Surrogate QC Std.)		32.4	
Phenol	34695	Not Detected	660
bis(2-Chloroethyl)ether	34276	Not Detected	660
2-Chlorophenol	34589	Not Detected	660
1,3-Dichlorobenzene	34569	Not Detected	660
1,4-Dichlorobenzene	34574	Not Detected	660
Benzyl alcohol	75212	Not Detected	1300
1,2-Dichlorobenzene	34539	Not Detected	660
2-Methylphenol		Not Detected	660
bis(2-Chloroisopropyl)ether	34286	Not Detected	660
Acetophenone	73272	Not Detected	660
4-Methylphenol		Not Detected	660
n-Nitroso-di-n-propylamine	34428	Not Detected	660
Hexachloroethane	34399	Not Detected	660
Nitrobenzene-d5(Surrogate QC Std.)		38.4	
Nitrobenzene	34450	Not Detected	660
n-Nitrosopiperidine	73129	Not Detected	660
Isophorone	34411	Not Detected	660
2-Nitrophenol	34594	Not Detected	660
2,4-Dimethylphenol	34609	Not Detected	660
bis(2-Chloroethoxy)methane	34281	Not Detected	660
Benzoic acid	75315	Not Detected	3300
2,4-Dichlorophenol	34604	Not Detected	660
1,2,4-Trichlorobenzene	34554	Not Detected	660
aa-dimethyl-Phenethylamine	73136	Not Detected	660
Naphthalene	34445	Not Detected	660
4-Chloroaniline	78867	Not Detected	1300
2,6-Dichlorophenol	73122	Not Detected	660
Hexachlorobutadiene	38705	Not Detected	660
n-Nitroso-di-n-butylamine	73159	Not Detected	660
4-Chloro-3-methylphenol	34455	Not Detected	1300
2-Methylnaphthalene	78868	Not Detected	660
1,2,4,5-Tetrachlorobenzene	79787	Not Detected	660
Hexachlorocyclopentadiene	34389	Not Detected	660
2,4,6-Trichlorophenol	34624	Not Detected	660
2,4,5-Trichlorophenol	78401	Not Detected	660
2-Fluorobiphenyl(Surrogate QC Std.)		50.5	
2-Chloronaphthalene	34584	Not Detected	660
1-Chloronaphthalene		Not Detected	660
2-Nitroaniline	78299	Not Detected	3300
Dimethylphthalate	34344	Not Detected	660
Acenaphthylene	34203	Not Detected	660
2,6-Dinitrotoluene	34629	Not Detected	660
3-Nitroaniline	78869	Not Detected	3300
Acenaphthene	34208	Not Detected	660

Data for Semivolatile Soil/Sed (8270) (continued):

Component Name		Result	Component MDL
2,4-Dinitrophenol	34619	Not Detected	3300
4-Nitrophenol	34649	Not Detected	3300
Dibenzofuran	75647	Not Detected	660
Pentachlorobenzene	79790	Not Detected	660
2,4-Dinitrotoluene	34614	Not Detected	660
1-Naphthylamine	73143	Not Detected	660
2-Naphthylamine	73124	Not Detected	660
2,3,4,6-Tetrachlorophenol		Not Detected	660
Diethylphthalate	34339	Not Detected	660
Fluorene	34384	Not Detected	660
4-Chlorophenyl-phenylether	34644	Not Detected	660
4-Nitroaniline	78870	Not Detected	660
Diphenylamine		Not Detected	660
4,6-Dinitro-2-methylphenol	34660	Not Detected	3300
n-Nitrosodiphenylamine	34436	Not Detected	660
1,2-Diphenylhydrazine	34349	Not Detected	660
2,4,6-Tribromophenol(Surrogate QC Std.)		41.5	
4-Bromophenyl-phenylether	34639	Not Detected	660
Phenacetin	73117	Not Detected	660
Hexachlorobenzene	39701	Not Detected	660
4-Aminobiphenyl	73125	Not Detected	660
Pentachlorophenol	39061	Not Detected	3300
Pronamide	73031	Not Detected	660
Pentachloronitrobenzene	81808	Not Detected	660
Phenanthrene	34464	Not Detected	660
Anthracene	34223	Not Detected	660
Di-n-butylphthalate	39112	Not Detected	660
Fluoranthene	34379	Not Detected	660
Benzidine	39121	Not Detected	660
Pyrene	34472	Not Detected	660
Terphenyl-d14(Surrogate QC Std.)		67.8	
p-Dimethylaminoazobenzene	73116	Not Detected	660
Butylbenzylphthalate	34295	Not Detected	660
Benzo[a]anthracene	34529	Not Detected	660
3,3'-Dichlorobenzidine	34634	Not Detected	1300
Chyrsene	34323	Not Detected	660
bis(2-Ethylhexyl)phthalate	39102	Not Detected	660
Di-n-octylphthalate	34599	Not Detected	660
Benzo[b]fluoranthene	34233	Not Detected	660
Benzo[k]fluoranthene	34245	Not Detected	660
7,12-Dimethylbenz(a)anthracene	73115	Not Detected	660
Benzo[a]pyrene	34250	Not Detected	660
3-Methylcholanthrene	73156	Not Detected	660
Dibenz(a,j)acridine		Not Detected	660
Indeno[1,2,3-cd]pyrene	34406	Not Detected	660
Dibenz[a,h]anthracene	34559	Not Detected	660
Benzo[g,h,i]perylene	34524	Not Detected	660
Pyridine	73312	Not Detected	660
ALPHA BHC	39076	Not Detected	660
GAMMA BHC	39343	Not Detected	660
BETA BHC	34257	Not Detected	660

Data for Semivolatile Soil/Sed (8270) (continued):

Component Name		Result	Component MDL
DELTA BHC	34262	Not Detected	660
HEPTACHLOR	39413	Not Detected	660
ALDRIN	39333	Not Detected	660
HEPTACHLOR EPOXIDE	39423	Not Detected	1650
ENDOSULFAN 1	34364	Not Detected	3300
DIELDRIN	39383	Not Detected	660
P,P' DDE	39321	Not Detected	660
ENDRIN	39393	Not Detected	1320
ENDOSULFAN 2	34359	Not Detected	3300
P,P' DDD	39311	Not Detected	660
ENDRIN ALDEHYDE	34369	Not Detected	660
ENDOSULFAN SULFATE	34354	Not Detected	1650
P,P' DDT	39301	Not Detected	660

Data for ICP METALS FOR HW SOLIDS mg/kg:

Component Name		Result	Component MDL
Silver	01078	Not Detected	3
Arsenic	01003	Not Detected	3
Barium	01008	9.0	1
Cadmium	01028	Not Detected	1
Chromium	01029	12	2
Lead	01052	5.2	5
Nickel	01068	3.5	2
Selenium	01148	Not Detected	5

Summary of specification violations or warnings:

Analyte: 2-Fluorophenol(Surrogate QC Std.)
Lower specification value: 25 Result: 16.6

If there are any questions regarding this data, please call.

SUPERVISOR

From: Georgia Dept. of Natural Resources
Environmental Protection Div. Laboratory
455 14th Street NW
Atlanta, GA 30318

RECEIVED
JUN 24 1996
HAZARDOUS WASTE MANAGEMENT BRANCH

June 21, 1996

To: E. Williams
D. Heater
HWMB

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AB19281 Source ID#: ADHOC
DNR project: HW
sample description: BROCKWAY STANDARD HW60105
Sample Collector: WMS./HEATER Sample collection date: 06/11/96
Lab submittal date: 06/12/96 Time: 09:59
DNR Lab reference: HW60105 LABORATORY: METALS

Parameter	Result	Units	MDL
EPA Method 8260 Water	see below	ug/L	5

Data for EPA Method 8260 Water ug/L:

Component Name		Result	Component MDL
Dichlorodifluoromethane	34668	Not Detected	5
Chloromethane	34418	Not Detected	10
Bromomethane	34413	Not Detected	10
Vinyl Chloride	39175	Not Detected	10
Chloroethane	34311	Not Detected	10
Methylene Chloride	34423	Not Detected	5
Trichlorofluoromethane	34488	Not Detected	5
Acetone	81552	Not Detected	100
Dibromomethane	77596	Not Detected	5
trans-1,2-Dichloroethene	34546	Not Detected	5
Iodomethane	77424	Not Detected	5
Carbon Disulfide	77041	Not Detected	5
1,1-Dichloroethene	34501	Not Detected	5
1,1-Dichloroethane	34496	Not Detected	5
cis-1,2-Dichloroethene	77093	Not Detected	5
2,2-Dichloropropane	77170	Not Detected	5
Bromochloromethane	77297	Not Detected	5
Chloroform	32106	Not Detected	5
Dibromofluoromethane(Surrogate QC Std.)		17.5	0
1,1-Dichloropropene	77168	Not Detected	5
1,2-Dichloroethane	32103	Not Detected	5
2-Butanone	81595	Not Detected	100
1,1,1-Trichloroethane	34506	Not Detected	5
Carbon Tetrachloride	32102	Not Detected	5
Vinyl Acetate	77057	Not Detected	50

Data for EPA Method 8260 Water (continued):

Component Name		Result	Component MDL
Bromodichloromethane	32101	Not Detected	5
1,2-Dichloropropane	34541	Not Detected	5
Trichloroethene	39180	Not Detected	5
Benzene	34030	Not Detected	5
2-Chloroethyl vinyl ether	34576	Not Detected	5
cis-1,3-Dichloropropene	34704	Not Detected	5
trans-1,3-Dichloropropene	34699	Not Detected	5
Dibromochloromethane	32105	Not Detected	5
1,1,2-Trichloroethane	34511	Not Detected	5
Bromoform	32104	Not Detected	5
1,2,3-Trichloropropane	77443	Not Detected	5
4-Methyl-2-Pentanone	81596	Not Detected	50
2-Hexanone	77103	Not Detected	50
Tetrachloroethene	34475	Not Detected	5
1,3-Dichloropropane	77173	Not Detected	5
1,1,2,2-Tetrachloroethane	34516	Not Detected	5
Toluene-d8(Surrogate QC Std.)		20.9	0
Toluene	34010	Not Detected	5
1,2-Dibromoethane	77651	Not Detected	5
Chlorobenzene	34301	Not Detected	5
Ethylbenzene	34371	Not Detected	5
1,1,1,2-Tetrachloroethane	77562	Not Detected	5
Bromofluorobenzene(Surrogate QC Std.)		18.3	0
Styrene	77128	Not Detected	5
p,m-Xylene	77135	Not Detected	5
o-Xylene	77135	Not Detected	5
Isopropylbenzene	77223	Not Detected	5
Bromobenzene	81555	Not Detected	5
n-Propylbenzene	77224	Not Detected	5
2-Chlorotoluene	77275	Not Detected	5
1,3,5-Trimethylbenzene	77226	Not Detected	5
4-Chlorotoluene	77277	Not Detected	5
tert-Butylbenzene	77353	Not Detected	5
1,2,4-Trimethylbenzene	77222	Not Detected	5
sec-Butylbenzene	77350	Not Detected	5
1,3-Dichlorobenzene	34566	Not Detected	5
p-Isopropyltoluene	77356	Not Detected	5
1,4-Dichlorobenzene	34571	Not Detected	5
n-Butylbenzene	77342	Not Detected	5
1,2-Dichlorobenzene	34536	Not Detected	5
1,2-Dibromo-3-chloropropane	38487	Not Detected	5
1,2,4-Trichlorobenzene	34551	Not Detected	5
Hexachlorobutadiene	38702	Not Detected	5
Naphthalene	34696	Not Detected	5
1,2,3-Trichlorobenzene	77613	Not Detected	5

Sample comments:

Trip blank.

If there are any questions regarding this data, please call.

SUPERVISOR

Laboratory Report for Municipal Wells

ENVIRONMENTAL PROTECTION DIVISION
455 14th Street, Atlanta, Georgia 30318-7900

LABORATORY REPORT

TO: *Mr. William Vest* *City of Homer* *200 W Dame Avenue* *Homerville, GA 31634*	**Date Collected:** 04/12/95 **Time Collected:** 13:20 **Sample Collector:** K. SMITH **Chlorination:** Source: Ground **Sample Type:** Routine
Sample ID : AA63037 **Facility Name:** Homerville **Water System ID :** 0650000 **Entry Point ID:** 303 **Entry Point Descr.:** #3 WELL	**Received By:** JLJ **Date Received:** 04/13/95 **Time Received:** 11:41 **DW Project:** VOC **Reporting Date:** 04/18/95

25 1995

DRINKING WATER PROGRAM

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
☐ **EPA 502.2 VOC DRINKING WATER**									
1,1,2,2-Tetrachloroethane	77562		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,1,1-Trichloroethane	34506		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	200.00
1,1,2,2-Tetrachlethane	34516		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,1,2-Trichloroethane	34511		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
1,1-Dichloroethane	34496		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,1-Dichloroethylene	34501		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	7.00
1,1-Dichloropropene	77168		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,2,3-Trichlorobenzene	77613		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,2,3-Trichloropropane	77443		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,2,4-Trichlorobenzene	34551		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	70.00
1,2,4-Trimethylbenzene	77222		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,2-Dibromo-3-Chloropropane	38760		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	0.20
1,2-Dibromoethane	81522		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	0.05
1,2-Dichloroethane	32103		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
1,2-Dichloropropane	34541		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
1,3,5-Trimethylbenzene	77226		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,3-Dichloropropane	77173		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
2,2 -Dichloropropane	77170		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Benzene	34030		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
Bromobenzene	81555		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Bromochloromethane	77297		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Bromodichloromethane	32101		EPA 502.2	0.52	ug/L	0.50	JDA	04/14/95	
Bromoform	32104		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
Bromomethane	34413		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Carbon tetrachloride	32102		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
Chlorobenzene	34301		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	100.00
Chlorodibromomethane	34306		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Chloroethane	34311		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Chloroform	32106		EPA 502.2	2.44	ug/L	0.50	JDA	04/14/95	
Chloromethane	34418		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Dibromomethane	77596		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Dichlorodifluoromethane	34668		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Dichloromethane	34423		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
Ethylbenzene	34371		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	700 00
Fluorotrichloromethane	34488		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Hexachlorobutadiene	38702		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Isopropylbenzene	77223		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Naphthalene	34696		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Styrene	77128		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	100.00
Tetrachloroethylene	34475		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
Toluene	34010		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	1000.00
Total Xylene	34020		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	10000.00
Trichloroethylene	39180		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
Vinyl Chloride	39175		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	2.00
cis-1,2-Dichloroethylene	77093		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	70.00
cis-1,3-Dichloropropene	34704		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
m-Dichlorobenzene	34566		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
n-Butylbenzene	77342		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
n-Propylbenzene	77224		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
o-Chlorotoluene	77275		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
o-Dichlorobenzene	34536		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	600.00
p-Chlorotoluene	77277		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
p-Dichlorobenzene	34571		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	75.00
p-Isopropyltoluene	77356		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
sec-Butylbenzene	77350		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
tert-Butylbenzene	77353		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
trans-1,2-Dichloroethylene	34546		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	100 00
trans-1,3-Dichloropropene	34699		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	

RESULTS ACCEPTABLE

ug/l : micrograms/liter
mg/l : milligrams/liter
mg/kg: milligrams/kilogram
ug/kg: micrograms/kilogram
ug/g: micrograms/gram

< : less than
MCL: Maximum Contaminant Level
MDL: Method Detection Limit
LSPC: result less than lower specification
USPC: result greater than upper specification

Danny Reed
Laboratory Manager (404)853-7962

Sample ID : AA63037

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
455 14th Street, Atlanta, Georgia 30318-7900

LABORATORY REPORT

TO: *Mr. William Vest* *City of Homer* *200 W Dame Avenue* *Homerville, GA 31634*		**Date Collected:**	04/12/95
		Time Collected:	13:00
		Sample Collector:	K. SMITH
		Chlorination:	Source: Ground
		Sample Type:	Routine
Sample ID :	**AA63039**	**Received By:**	JLJ
Facility Name:	Homerville	**Date Received:**	04/13/95
Water System ID :	**0650000**	**Time Received:**	11:41
Entry Point ID:	302	**DW Project:**	VOC
Entry Point Descr.:	#2 WELL	**Reporting Date:**	04/19/95

RECEIVED
APR 25 1995
DRINKING WATER PROGRAM

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
EPA 502.2 VOC DRINKING WATER									
1,1,1,2-Tetrachloroethane	77562		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
1,1,1-Trichloroethane	34506		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	200.00
1,1,2,2-Tetrachlethane	34516		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
1,1,2-Trichloroethane	34511		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	5.00
1,1-Dichloroethane	34496		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
1,1-Dichloroethylene	34501		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	7.00
1,1-Dichloropropene	77168		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
1,2,3-Trichlorobenzene	77613		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
1,2,3-Trichloropropane	77443		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
1,2,4-Trichlorobenzene	34551		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	70.00
1,2,4-Trimethylbenzene	77222		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
1,2-Dibromo-3-Chloropropane	38760		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	0.20
1,2-Dibromoethane	81522		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	0.05
1,2-Dichloroethane	32103		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	5.00
1,2-Dichloropropane	34541		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	5.00
1,3,5-Trimethylbenzene	77226		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
1,3-Dichloropropane	77173		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
2,2 -Dichloropropane	77170		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Benzene	34030		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	5.00
Bromobenzene	81555		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Bromochloromethane	77297		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Bromodichloromethane	32101		EPA 502 2	6.02	ug/L	0.50	JDA	04/17/95	
Bromoform	32104		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
Bromomethane	34413		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Carbon tetrachloride	32102		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	5.00
Ci[illegible]benzene	34301		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	100.00
Chlorodibromomethane	34306		EPA 502.2	1.66	ug/L	0.50	JDA	04/17/95	
Chloroethane	34311		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Chloroform	32106		EPA 502.2	23.49	ug/L	0.50	JDA	04/17/95	
Chloromethane	34418		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Dibromomethane	77596		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Dichlorodifluoromethane	34668		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Dichloromethane	34423		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	5.00
Ethylbenzene	34371		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	700.00
Fluorotrichloromethane	34488		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Hexachlorobutadiene	38702		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Isopropylbenzene	77223		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Naphthalene	34696		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
Styrene	77128		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	100.00
Tetrachloroethylene	34475		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	5.00
Toluene	34010		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	1000.00
Total Xylene	34020		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	10000.00
Trichloroethylene	39180		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	5.00
Vinyl Chloride	39175		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	2.00
cis-1,2-Dichloroethylene	77093		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	70.00
ci[illegible]3-Dichloropropene	34704		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
m-Dichlorobenzene	34566		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
n-Butylbenzene	77342		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
n-Propylbenzene	77224		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
o-Chlorotoluene	77275		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
o-Dichlorobenzene	34536		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	600.00
p-Chlorotoluene	77277		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
p-Dichlorobenzene	34571		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	75.00
p-Isopropyltoluene	77356		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
sec-Butylbenzene	77350		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
tert-Butylbenzene	77353		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	
trans-1,2-Dichloroethylene	34546		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	100.00
trans-1,3-Dichloropropene	34699		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/17/95	

RESULTS ACCEPTABLE

ug/l : micrograms/liter
mg/l : milligrams/liter
mg/kg: milligrams/kilogram
ug/kg: micrograms/kilogram
[illegible]g: micrograms/gram

< : less than
MCL: Maximum Contaminant Level
MDL: Method Detection Limit
LSPC: result less than lower specification
USPC: result greater than upper specification

Danny Reed
Laboratory Manager (404)853-7962

ENVIRONMENTAL PROTECTION DIVISION
455 14th Street, Atlanta, Georgia 30318-7900

LABORATORY REPORT

TO: *Mr. William Vest* *City of Homer* *200 W Dame Avenue* *Homerville, GA 31634*	**Date Collected:** 04/12/95 **Time Collected:** 13:40 **Sample Collector:** K. SMITH **Chlorination:** Source: Ground **Sample Type:** Routine
Sample ID : AA63035 **Facility Name:** Homerville **Water System ID :** 0650000 **Entry Point ID:** 301 **Entry Point Descr.:** #1 WELL	**Received By:** JLJ **Date Received:** 04/13/95 **Time Received:** 11:41 **DW Project:** VOC **Reporting Date:** 04/18/95

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
☐ **EPA 502.2 VOC DRINKING WATER**									
1,[illegible]2-Tetrachloroethane	77562		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,1,1-Trichloroethane	34506		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	200.00
1,1,2,2-Tetrachlethane	34516		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,1,2-Trichloroethane	34511		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
1,1-Dichloroethane	34496		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,1-Dichloroethylene	34501		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	7.00
1,1-Dichloropropene	77168		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,2,3-Trichlorobenzene	77613		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,2,3-Trichloropropane	77443		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,2,4-Trichlorobenzene	34551		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	70 00
1,2,4-Trimethylbenzene	77222		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,2-Dibromo-3-Chloropropane	38760		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	0 20
1,2-Dibromoethane	81522		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	0.05
1,2-Dichloroethane	32103		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
1,2-Dichloropropane	34541		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
1,3,5-Trimethylbenzene	77226		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
1,3-Dichloropropane	77173		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
2,2 -Dichloropropane	77170		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Benzene	34030		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
Bromobenzene	81555		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Br[illegible]chloromethane	77297		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Bromodichloromethane	32101		EPA 502.2	4.57	ug/L	0 50	JDA	04/14/95	
Bromoform	32104		EPA 502 2	Not Detected	ug/L	0 50	JDA	04/14/95	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
Bromomethane	34413		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Carbon tetrachloride	32102		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
Chlorobenzene	34301		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	100.00
Chlorodibromomethane	34306		EPA 502.2	1.68	ug/L	0.50	JDA	04/14/95	
Chloroethane	34311		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Chloroform	32106		EPA 502.2	14.44	ug/L	0.50	JDA	04/14/95	
Chloromethane	34418		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Dibromomethane	77596		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Dichlorodifluoromethane	34668		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Dichloromethane	34423		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
Ethylbenzene	34371		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	700.00
Fluorotrichloromethane	34488		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Hexachlorobutadiene	38702		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Isopropylbenzene	77223		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Naphthalene	34696		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
Styrene	77128		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	100.00
Tetrachloroethylene	34475		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
Toluene	34010		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	1000.00
Total Xylene	34020		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	10000.00
Trichloroethylene	39180		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	5.00
Vinyl Chloride	39175		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	2.00
cis-1,2-Dichloroethylene	77093		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	70.00
cis-1,3-Dichloropropene	34704		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
m-Dichlorobenzene	34566		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
n-Butylbenzene	77342		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
n-Propylbenzene	77224		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
o-Chlorotoluene	77275		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
o-Dichlorobenzene	34536		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	600.00
p-Chlorotoluene	77277		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
p-Dichlorobenzene	34571		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	75.00
p-Isopropyltoluene	77356		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
sec-Butylbenzene	77350		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
tert-Butylbenzene	77353		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	
trans-1,2-Dichloroethylene	34546		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	100.00
trans-1,3-Dichloropropene	34699		EPA 502.2	Not Detected	ug/L	0.50	JDA	04/14/95	

RESULTS ACCEPTABLE

ug/l : micrograms/liter
mg/l : milligrams/liter
mg/kg: milligrams/kilogram
ug/kg: micrograms/kilogram
ug/g: micrograms/gram

< : less than
MCL: Maximum Contaminant Level
MDL: Method Detection Limit
LSPC: result less than lower specification
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Danny Reed
Laboratory Manager (404)853-7962

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
455 14th Street, Atlanta, Georgia 30318-7900

LABORATORY REPORT

FILE COPY

TO: *Mr. William Vest, City Mgr* *City of Homerville* *200 W Dame Ave.* *Homerville GA 31634*	**Date Collected:** 09/14/94 **Time Collected:** 14:25 **Sample Collector:** T WHITE **Chlorination:** **Sample Type:** Routine
Sample ID : AA42160 **Facility Name:** Homerville **Water System ID :** 0650000 **Entry Point ID:** 301 **Entry Point Descr.:** WELL #1	**Received By:** BEM **Date Received:** 09/15/94 **Time Received:** 11:11 **DW Project:** SOC **Reporting Date:** 11/15/94

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
☐ **PHTHALATES EPA METHOD 506**									
Butylbenzene Phthalate	34292		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Di(2-Ethylhexyl) Adipate	77903		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	400.00
Di(2-Ethylhexyl) Phthalate	39100		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	6.00
Di-n-Butyl Phthalate	39110		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Di-n-Octyl Phthalate	34596		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Diethyl Phthalate	34336		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Dimethyl Phthalate	34341		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
☐ **NP EPA 507**									
Alachlor	77825		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	2.00
Atrazine	39033		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	3.00
Bromacil	04029		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Butachlor	77860		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Metolachlor	39356		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Metribuzin	81408		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Prometon	39056		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Propachlor	30295		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Simazine	39055		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	4.00
☐ **EC EPA 508**									
Aldrin	39330		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	
BHC-gamma (Lindane)	39340		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	0.20
Dieldrin	39380		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
Endrin	39390		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	2.00
Heptachlor	39410		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	0.40
Heptachlor Epoxide	39420		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	0.20
Hexachlorobenzene	39700		EPA 508	Not detected	ug/L	0.1	CPC	09/25/94	1.00
Hexachlorocyclopentadiene	34386		EPA 508	Not detected	ug/L	0.4	CPC	09/25/94	50.00
Methoxychlor	39480		EPA 508	Not detected	ug/L	0.4	CPC	09/25/94	40.00
Trifluralin	81284		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	
☐ **PCB'S, TOXAPHENE, + CHLORDANE**									
Chlordane	39350		EPA 508	Not detected	UG/L	0.4	CPC	09/25/94	2.00
PCB 1016	34671		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1221	39488		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1232	39492		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1242	39496		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1248	39500		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1254	39504		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1260	39508		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
Toxaphene	39400		EPA 508	Not detected	UG/L	0.6	CPC	09/25/94	3.00
☐ **CARBAMATES EPA 531.1**									
3-Hydroxycarbofuran	82584		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Aldicarb	39053		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Aldicarb Sulfone	82587		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Aldicarb Sulfoxide	82586		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Baygon	38537		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Carbaryl	77700		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Carbofuran	81405		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	40.00
Methiocarb	38500		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Methomyl	39051		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Oxamyl	38865		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	200.00
☐ **PAH EPA METHOD 550**									
Acenaphthene	34205		EPA 550	Not detected	ug/L	5.0	DJT	11/06/94	
Acenaphthylene	34200		EPA 550	Not detected	ug/L	5.0	DJT	11/06/94	
Anthracene	34220		EPA 550	Not detected	ug/L	0.2	DJT	11/06/94	
Benzo(a)anthracene	34526		EPA 550	Not detected	ug/L	0.01	DJT	11/06/94	
Benzo(a)pyrene	34247		EPA 550	Not detected	ug/L	0.06	DJT	11/06/94	0.20
Benzo(b)fluoranthene	34230		EPA 550	Not detected	ug/L	0.01	DJT	11/06/94	
Benzo(ghi)perylene	34521		EPA 550	Not detected	ug/L	0.03	DJT	11/06/94	
Benzo(k)fluoranthene	34242		EPA 550	Not detected	ug/L	0.01	DJT	11/06/94	
Chrysene	34320		EPA 550	Not detected	ug/L	0.3	DJT	11/06/94	
Dibenzo(ah)anthracen	34556		EPA 550	Not detected	ug/L	0.04	DJT	11/06/94	
Fluoranthene	34376		EPA 550	Not detected	ug/L	0.06	DJT	11/06/94	
Fluorene	34381		EPA 550	Not detected	ug/L	0.5	DJT	11/06/94	
Indeno(123)pyrene	34403		EPA 550	Not detected	ug/L	0.04	DJT	11/06/94	
Phenanthrene	34461		EPA 550	Not detected	ug/L	0.4	DJT	11/06/94	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
Pyrene	34469		EPA 550	Not detected	ug/L	0.3	DJT	11/06/94	

RESULTS ACCEPTABLE

ug/l : micrograms/liter mg/l : milligrams/liter mg/kg: milligrams/kilogram ug/kg: micrograms/kilogram ug/g: micrograms/gram	< : less than MCL: Maximum Contaminant Level MDL: Method Detection Limit LSPC: result less than lower specification USPC: result greater than upper specification

Danny Reed
Laboratory Manager (404)853-7962

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
455 14th Street, Atlanta, Georgia 30318-7900

LABORATORY REPORT

TO: *Mr. William Vest, City Mgr* *City of Homerville* *200 W Dame Ave.* *Homerville GA 31634*	**Date Collected:** 09/14/94 **Time Collected:** 14:00 **Sample Collector:** T WHITE **Chlorination:** **Sample Type:** Routine
Sample ID : AA42161 **Facility Name:** Homerville **Water System ID :** 0650000 **Entry Point ID:** 302 **Entry Point Descr.:** WELL #2	**Received By:** BEM **Date Received:** 09/15/94 **Time Received:** 11:11 **DW Project:** SOC **Reporting Date:** 11/15/94

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
☐ PHTHALATES EPA METHOD 506									
Butylbenzene Phthalate	34292		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Di(2-Ethylhexyl) Adipate	77903		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	400.00
Di(2-Ethylhexyl) Phthalate	39100		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	6.00
Di-n-Butyl Phthalate	39110		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Di-n-Octyl Phthalate	34596		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Diethyl Phthalate	34336		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Dimethyl Phthalate	34341		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
☐ NP EPA 507									
Alachlor	77825		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	2.00
Atrazine	39033		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	3.00
Bromacil	04029		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Butachlor	77860		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Metolachlor	39356		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Metribuzin	81408		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Prometon	39056		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Propachlor	30295		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Simazine	39055		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	4.00
☐ EC EPA 508									
Aldrin	39330		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	
BHC-gamma (Lindane)	39340		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	0.20
Dieldrin	39380		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
Endrin	39390		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	2.00
Heptachlor	39410		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	0.40
Heptachlor Epoxide	39420		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	0.20
Hexachlorobenzene	39700		EPA 508	Not detected	ug/L	0.1	CPC	09/25/94	1.00
Hexachlorocyclopentadiene	34386		EPA 508	Not detected	ug/L	0.4	CPC	09/25/94	50.00
Methoxychlor	39480		EPA 508	Not detected	ug/L	0.4	CPC	09/25/94	40.00
Trifluralin	81284		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	
☐ **PCB'S, TOXAPHENE, + CHLORDANE**									
Chlordane	39350		EPA 508	Not detected	UG/L	0.4	CPC	09/25/94	2.00
PCB 1016	34671		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1221	39488		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1232	39492		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1242	39496		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1248	39500		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1254	39504		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1260	39508		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
Toxaphene	39400		EPA 508	Not detected	UG/L	0.6	CPC	09/25/94	3.00
☐ **CARBAMATES EPA 531.1**									
3-Hydroxycarbofuran	82584		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Aldicarb	39053		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Aldicarb Sulfone	82587		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Aldicarb Sulfoxide	82586		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Baygon	38537		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Carbaryl	77700		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Carbofuran	81405		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	40.00
Methiocarb	38500		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Methomyl	39051		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Oxamyl	38865		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	200.00
☐ **PAH EPA METHOD 550**									
Acenaphthene	34205		EPA 550	Not detected	ug/L	5.0	DJT	11/06/94	
Acenaphthylene	34200		EPA 550	Not detected	ug/L	5.0	DJT	11/06/94	
Anthracene	34220		EPA 550	Not detected	ug/L	0.2	DJT	11/06/94	
Benzo(a)anthracene	34526		EPA 550	Not detected	ug/L	0.01	DJT	11/06/94	
Benzo(a)pyrene	34247		EPA 550	Not detected	ug/L	0.06	DJT	11/06/94	0.20
Benzo(b)fluoranthene	34230		EPA 550	Not detected	ug/L	0.01	DJT	11/06/94	
Benzo(ghi)perylene	34521		EPA 550	Not detected	ug/L	0.03	DJT	11/06/94	
Benzo(k)fluoranthene	34242		EPA 550	Not detected	ug/L	0.01	DJT	11/06/94	
Chrysene	34320		EPA 550	Not detected	ug/L	0.3	DJT	11/06/94	
Dibenzo(ah)anthracen	34556		EPA 550	Not detected	ug/L	0.04	DJT	11/06/94	
Fluoranthene	34376		EPA 550	Not detected	ug/L	0.06	DJT	11/06/94	
Fluorene	34381		EPA 550	Not detected	ug/L	0.5	DJT	11/06/94	
Indeno(123)pyrene	34403		EPA 550	Not detected	ug/L	0.04	DJT	11/06/94	
Phenanthrene	34461		EPA 550	Not detected	ug/L	0.4	DJT	11/06/94	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
Pyrene	34469		EPA 550	Not detected	ug/L	0.3	DJT	11/06/94	

RESULTS ACCEPTABLE

ug/l : micrograms/liter
mg/l : milligrams/liter
mg/kg: milligrams/kilogram
ug/kg: micrograms/kilogram
ug/g: micrograms/gram

< : less than
MCL: Maximum Contaminant Level
MDL: Method Detection Limit
LSPC: result less than lower specification
USPC: result greater than upper specification

Danny Reed
Laboratory Manager (404)853-7962

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
455 14th Street, Atlanta, Georgia 30318-7900

LABORATORY REPORT

TO: *Mr. William Vest, City Mgr* *City of Homerville* *200 W Dame Ave.* *Homerville GA 31634*	**Date Collected:** 09/14/94 **Time Collected:** 14:10 **Sample Collector:** T WHITE **Chlorination:** **Sample Type:** Routine
Sample ID : AA42163 **Facility Name:** Homerville **Water System ID :** 0650000 **Entry Point ID:** 303 **Entry Point Descr.:** WELL #3	**Received By:** BEM **Date Received:** 09/15/94 **Time Received:** 11:11 **DW Project:** SOC **Reporting Date:** 11/15/94

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
☐ **PHTHALATES EPA METHOD 506**									
Butylbenzene Phthalate	34292		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Di(2-Ethylhexyl) Adipate	77903		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	400.00
Di(2-Ethylhexyl) Phthalate	39100		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	6.00
Di-n-Butyl Phthalate	39110		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Di-n-Octyl Phthalate	34596		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Diethyl Phthalate	34336		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
Dimethyl Phthalate	34341		EPA 506	Not detected	ug/L	2.0	DSB	09/21/94	
☐ **NP EPA 507**									
Alachlor	77825		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	2.00
Atrazine	39033		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	3.00
Bromacil	04029		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Butachlor	77860		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Metolachlor	39356		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Metribuzin	81408		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Prometon	39056		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Propachlor	30295		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	
Simazine	39055		EPA 507	Not detected	ug/L	0.4	JLJ	10/29/94	4.00
☐ **EC EPA 508**									
Aldrin	39330		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	
BHC-gamma (Lindane)	39340		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	0.20
Dieldrin	39380		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
Endrin	39390		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	2.00
Heptachlor	39410		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	0.40
[illegible]tachlor Epoxide	39420		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	0.20
Hexachlorobenzene	39700		EPA 508	Not detected	ug/L	0.1	CPC	09/25/94	1.00
Hexachlorocyclopentadiene	34386		EPA 508	Not detected	ug/L	0.4	CPC	09/25/94	50.00
Methoxychlor	39480		EPA 508	Not detected	ug/L	0.4	CPC	09/25/94	40.00
Trifluralin	81284		EPA 508	Not detected	ug/L	0.04	CPC	09/25/94	
☐ **PCB'S, TOXAPHENE, + CHLORDANE**									
Chlordane	39350		EPA 508	Not detected	UG/L	0.4	CPC	09/25/94	2.00
PCB 1016	34671		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1221	39488		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1232	39492		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1242	39496		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1248	39500		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1254	39504		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
PCB 1260	39508		EPA 508	Not detected	UG/L	0.5	CPC	09/25/94	
Toxaphene	39400		EPA 508	Not detected	UG/L	0.6	CPC	09/25/94	3.00
☐ **CARBAMATES EPA 531.1**									
3-Hydroxycarbofuran	82584		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Aldicarb	39053		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
[illegible]carb Sulfone	82587		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Aldicarb Sulfoxide	82586		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Baygon	38537		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
Carbaryl	77700		EPA 531.1	Not detected	ug/L	2.0	SML	10/22/94	
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Benzo(ghi)perylene	34521		EPA 550	Not detected	ug/L	0.03	DJT	11/06/94	
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Chrysene	34320		EPA 550	Not detected	ug/L	0.3	DJT	11/06/94	
Dibenzo(ah)anthracen	34556		EPA 550	Not detected	ug/L	0.04	DJT	11/06/94	
[illegible]ranthene	34376		EPA 550	Not detected	ug/L	0.06	DJT	11/06/94	
Fluorene	34381		EPA 550	Not detected	ug/L	0.5	DJT	11/06/94	
Indeno(123)pyrene	34403		EPA 550	Not detected	ug/L	0.04	DJT	11/06/94	
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ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	MDL	ANALYST	ANALYSIS DATE	MCL
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RESULTS ACCEPTABLE

ug/l : micrograms/liter
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MCL: Maximum Contaminant Level
MDL: Method Detection Limit
LSPC: result less than lower specification
USPC: result greater than upper specification

Danny Reed
Laboratory Manager (404)853-7962

APPENDIX IV

U.S. EPA REGION IV

SDMS

Unscannable Material Target Sheet

DocID: 10715639 Site ID: GAD984209431

Site Name: Brockway Standard

Nature of Material:

Map:	☐	Computer Disks:	☐
Photos:	☑	CD-ROM:	☐
Blueprints:	☐	Oversized Report:	☐
Slides:	☐	Log Book:	☐

Other (describe): Site Photos (Appendix IV)

Amount of material:

* Please contact the appropriate Records Center to view the material *

APPENDIX V

Georgia Department of Natural Resources
205 Butler Street, S.E., Suite 1162, Atlanta, Georgia 30334
Lonice C. Barrett, Commissioner
Environmental Protection Division
Harold F. Reheis, Director
404/656-2833

April 17, 1996

MEMORANDUM

TO: John McKoewn, EPA

THROUGH: Eddie Williams, Geologist
Bruce Khaleghi, Unit Coordinator
Jim Ussery, Program Manager

FROM: Danny Heater, Environmental Engineer DPH

SUBJECT: Proposed Sampling Plan for Site Inspection (SI) of Brockway Standard Inc., Homerville, Georgia

Attached is a Sampling Analysis Plan and a site sketch of the site with previous sample locations. This map will assist to pinpoint the sampling locations. The actual locations will be determined during the site reconnaissance.

Brockway Standard Sampling Plan

SITE NAME AND LOCATION Brockway Standard Inc.
Highway 84 West
Homerville, Clinch County, GA 31634

DATE OF TRIP: April 29, 1996

PURPOSE OF TRIP: Site Reconnaissance and Sampling

SAMPLES TO LAB: April 30, 1996

TRIP PERSONNEL: Danny Heater and Eddie Williams

DESCRIPTION OF THE SITE:

Based on the results of the Preliminary Assessment (PA) the Brockway Standard Facility, dated 6-30-95, a Site Inspection (SI) is scheduled for April 29, 1996.

A Phase II Environmental Investigation at the Brockway Standard Facility was performed July of 1994. This investigation was performed to characterize the groundwater flow, delineate the horizontal and vertical extent of contamination, and to locate and delineate the contaminant source areas.

After review of the Phase II investigation, the following samples are needed to fully address the SI requirements:

Groundwater Samples:

The collection of groundwater samples from two (2) wells downgradient to the south or southwest
of the site will be attempted. Actual potential sample locations cannot be determined until the site reconnaissance of the area.

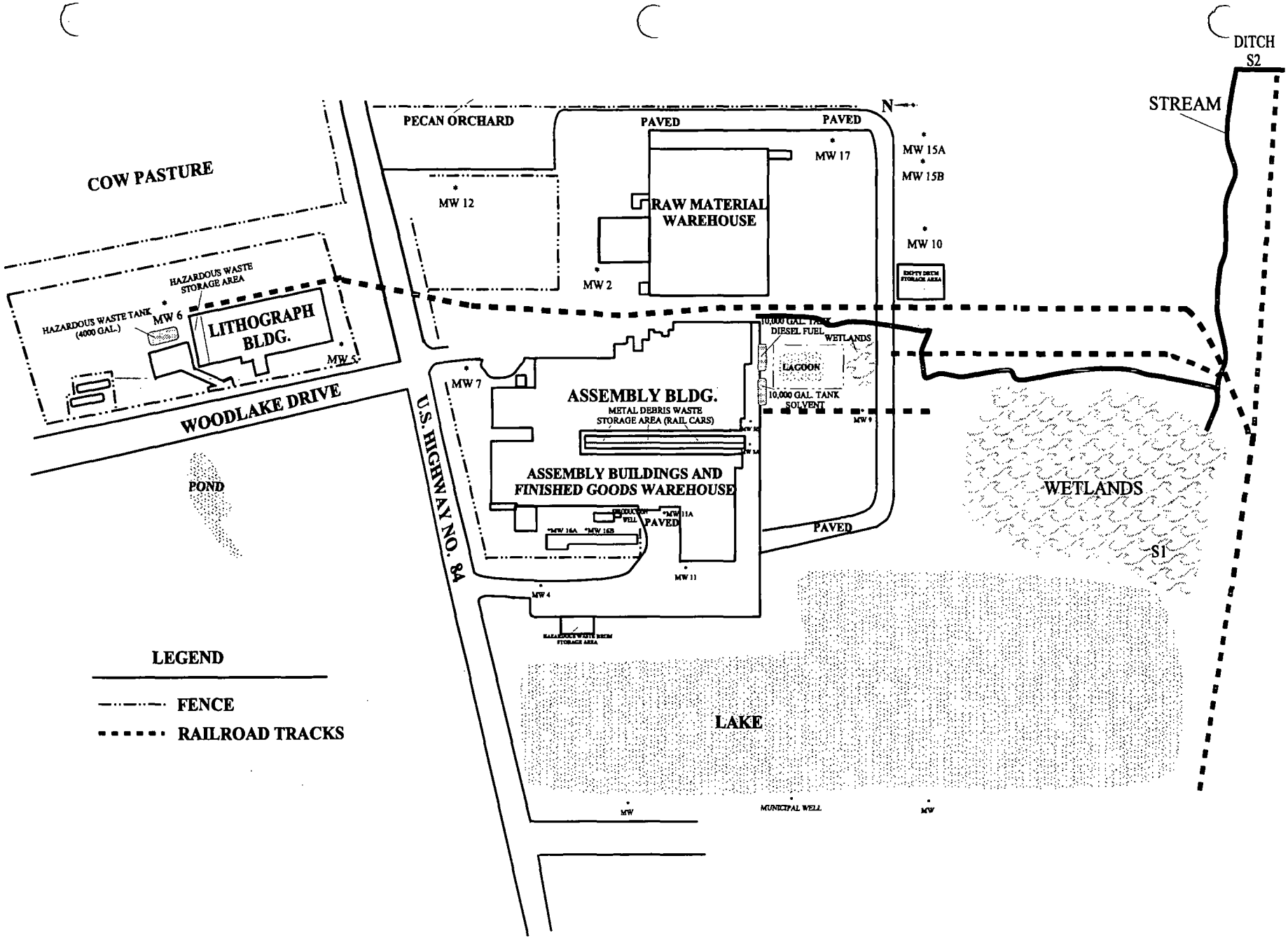
Surface Water Samples:

- 2 to 3 surface water samples at a probable point of entry will be collected in areas of observed releases from the site and 1 background surface water sample.
- 3 surfaces water samples were taken in the Phase II; only 1 analysis indicated a small amount of zinc.
  Specific area will be determined during the site reconnaissance.

Soil Samples:

- 3 to 4 surface soil samples will be attempted in areas of observed releases.
- During the Phase II, one surface soil was analyzed for VOCs, SVOCs, and metals. Four other samples reported low levels of T-DCE during field GC.

All samples will be analyzed for semi-volatiles, volatiles and metals.



BROCKWAY STANDARD

APPENDIX VI