Potential Hazardous Waste Site

Site Inspection Report

THE GILMAN COMPANY, INC. CHATTANOOGA, TN TND 004934188

NARRATIVE SUMMARY

GILMAN COMPANY, INC.
CHATTANOOGA, TENNESSEE

The Gilman Company site consists of approximately $\frac{1}{4}$ acre in Chattanooga, Hamilton County, Tennessee. Gilman Company is a large-volume manufacturer of paint and wood finishes and has operated a plant at this location since the 1920's.

In 1976 and 1977 Gilman disposed of approximately 300 drums of caustic sludge from paint vat cleaning in three trenches on the site. Waste caustic was dumped into the trenches, each of which was approximately 90 feet long, 10 feet wide and 4 feet deep. The waste was allowed to air dry for about a month and the trenches were then backfilled to the original grade.

In the fall of 1978, Gilman partially covered the area with 12 feet of fill material and built a company retail store. The first and second trenches are covered with 12 feet of earth fill and an asphalt parking lot and the store building, respectively. The third trench is covered with about 2 feet of fill and an asphalt parking lot.

Analysis by Tennessee Department of Health & Environment laboratory of s oil samples collected downgradient from the area of waste deposition show slightly elevated levels of lead, copper, and mercury. The site is in a geologically stable formation with slow-draining soils. Population within one mile of the site is estimated at 6,608. The hazard potential from this site appears to be low.

Facility name: Gilman Company, Inc.

Location: Riverfront Parkway, Chattanooga, Hamilton Co., Tennessee

EPA Region: IV

Person(s) in charge of the facility: John Bishop, Production & Inventory Control Manager

Name of Reviewer: G.S. Caruthers Date: February 11, 1986

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Old landfill in use in 1976 & 1977 to dispose of caustic NaOH sludge used to clean paint vats. May also contain Xylene, Toluene, MEK and Mercury. Located about ½ mile W. of CBD of Chattanooga on Riverfront Parkway, ¼ mile from Tennessee River. Major concern is ground/surface water route.

Scores: S_M = 1.16 (S_{gw} = 2 S_{sw} = 0 S_a = 0)

S_{FE} =

S_{DC} = 0

FIGURE 1
HRS COVER SHEET

Gilman Company, Inc.
TND 004934188

Ground Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref (Section)
1 Observed Release	0 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 3	2	0	6	
Net Precipitation	0 1 2 3	1	2	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	1	3	
Physical State	0 1 2 3	1	3	3	
	Total Route Characteristics Score		6	15	
3 Containment	0 1 2 3	1	3	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	3	8	
	Total Waste Characteristics Score		21	26	
5 Targets					3.5
Ground Water Use	0 1 2 3	3	3	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
	Total Targets Score		3	49	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			1134	57,330	
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} = 2			

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Gilman Company, Inc.
TND 004934188

Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	0 1 2 3	1	0	3	
1-yr. 24-hr. Rainfall	0 1 2 3	1	3	3	
Distance to Nearest Surface Water	0 1 2 3	2	6	6	
Physical State	0 1 2 3	1	3	3	
	Total Route Characteristics Score		12	15	
3 Containment	0 1 2 3	1	0	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	3	8	
	Total Waste Characteristics Score		21	26	
5 Targets					4.5
Surface Water Use	0 1 2 3	3	6	9	
Distance to a Sensitive Environment	0 1 2 3	2	0	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
	Total Targets Score		6	55	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	64,350	
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} = 0			

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Gilman Company, Inc.
TND 004934188

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	5.1
Date and Location:					
Sampling Protocol:					
If line 1 is 0, the S_a = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.					
2 Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
3 Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
4 Multiply 1 x 2 x 3				35,100	
5 Divide line 4 by 35,100 and multiply by 100		S_a = 0			

FIGURE 9
AIR ROUTE WORK SHEET

	S	S^2
Groundwater Route Score (S_{gw})	2	4
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		4
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		2
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		1.156

FIGURE 10
WORKSHEET FOR COMPUTING S_M

Gilman Company, Inc.
TND 004934188

Fire and Explosion Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
NOT EVALUATED					
Total Waste Characteristics Score				20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
NOT EVALUATED					
Total Targets Score				24	
4 Multiply 1 x 2 x 3				1,440	
5 Divide line 4 by 1,440 and multiply by 100		S_{FE} =			

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Gilman Company, Inc.
TND 004934188

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Incident	0 45	1	0	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 3	1	3	3	8.2
3 Containment	0 15	1	0	15	8.3
4 Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 4 5	4	16	20	
Distance to a Critical Habitat	0 1 2 3	4	0	12	
Total Targets Score			16	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	21,600	
7 Divide line 6 by 21,600 and multiply by 100	S_{DC} = 0				

FIGURE 12
DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

FACILITY NAME: The Gilman Company, Inc.

FACILITY DESCRIPTION: Paint Manufacturing Facility

LOCATION: Riverfront Parkway, Chattanooga, Tenn.

DATE SCORED: 13 February 1986

PERSON SCORING: Gordon S. Caruthers, TDS/SIU

PRIMARY SOURCE(S) OF INFORMATION (e.g., EPA region, state, FIT, etc):

State Superfund files, site inspection 10/16/85

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

Air Route

COMMENTS OR QUALIFICATIONS:

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

No observed release [0]

Rationale for attributing the contaminants to the facility:

N/A

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

Knox dolomite is an important regional aquifer. It and the overlying limestone formations are extensively folded and fractured in the Chattanooga area. Groundwater occurs chiefly in these fractures, which have been enlarged by solution.

Reference 8

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

300 feet [0]

Reference 1

Depth from the ground surface to the lowest point of waste disposal/storage:

±5 feet

Reference 2

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

51.92" annual

Reference 3

Mean annual lake or seasonal evaporation (list months for seasonal):

±37 in. annual

Reference 4

Net precipitation (subtract the above figures):

14.92 in. [2]

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

The original soil onsite is Wolftever silt loam. Area subsequently filled with borrow material overlay consisting primarily of Fullerton chert silt loam.

Reference 1

Permeability associated with soil type:

Wolftever - slow; Fullerton - medium

Reference 1, Reference 4 [1]

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

semi-dried sludge

Reference 2 [3]

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

No liner; surface capped & partially covered with asphalt and building. Surface infiltration negligible.

Reference 5 [3]

Method with highest score:

No liner. [3]

Reference 4

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Toluene	Reference 6	Persistence	3
Xylene	Reference 7	Toxicity	3
Mercury	Reference 4		
MEK			

[18]

Compound with highest score:

Mercury

Reference 4, Reference 11

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

300 x 55 gallon drums

Reference 5 [3]

Basis of estimating and/or computing waste quantity:

Statements of plant personnel, site inspection 10/16/85, interview with J. Bishop 10/16/85, Reference 5

* * *

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Commercial & industrial - other supply available

Reference 1, Reference 8 [1]

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Several industrial & commercial wells within 3 mile radius. No known domestic use.

Reference 8

Distance to above well or building:

0.5 mile

Reference 8 , Reference 10 [4]

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

No domestic use wells within 3 miles on same side of river.

Reference 8, Reference 9 [0]

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

N/A - Area is highly urbanized; no significant agricultural activity within 3-mile radius. [0]

Total population served by ground water within a 3-mile radius:

Zero [0]

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

None detected [0]

Rationale for attributing the contaminants to the facility:

N/A

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

5-8%

Reference 1

Name/description of nearest downslope surface water:

Tennessee River

Reference 10

Average slope of terrain between facility and above-cited surface water body in percent:

≤1%

Reference 1 [0]

Is the facility located either totally or partially in surface water?

No

Reference 10

Is the facility completely surrounded by areas of higher elevation?

No

Reference 10

1-Year 24-Hour Rainfall in Inches

3.1 in.

Reference 4 [3]

Distance to Nearest Downslope Surface Water

900′ approximately

Reference 10 [3]

Physical State of Waste

dried sludge

Reference 6 [3]

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

cover and runoff diversion

Reference 5

Method with highest score:

cover of borrow material, asphalt, building on site

Reference 5, Reference 4 [0]

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Metals	MEK	Reference 4
Mercury	Xylene	Reference 6
		Reference 7

Compound with highest score:

Mercury	Persistence	[3]
Reference 4	Toxicity	[3]

Reference 11

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

300 x 55 gallon drums

Reference 6 [3]

Basis of estimating and/or computing waste quantity:

Statements of plant personnel, site inspection 10/16/85, Reference 6, Reference 5, interview with J. Bishop, 10/16/85

* * *

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Commercial/industrial (1)
Recreation (2) [2]

Reference 13

Is there tidal influence?

No

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

None identified

Reference 10 [0]

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

None identified

Reference 10

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

2.1 miles upstream (Reference 10) [0]

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

N/A

Total population served:

0

Name/description of nearest of above water bodies:

Tennessee River

Distance to above-cited intakes, measured in stream miles.

N/A

AIR ROUTE

NOT RATED

1 OBSERVED RELEASE

Contaminants detected:

NONE

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

* * *

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Distance to critical habitat of an endangered species, if 1 mile or less:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

FIRE AND EXPLOSION

NOT RATED

1 CONTAINMENT

Hazardous substances present:

Type of containment, if applicable:

* * *

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Ignitability

Compound used:

Reactivity

Most reactive compound:

Incompatibility

Most incompatible pair of compounds:

* * *

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Distance to Nearest Population

Distance to Nearest Building

Distance to Sensitive Environment

Distance to wetlands:

Distance to critical habitat:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

N/A [0]

* * *

2 ACCESSIBILITY

Describe type of barrier(s):

None

Reference 5 [3]

* * *

3 CONTAINMENT

Type of containment, if applicable:

Waste material buried, area capped and covered with building and parking lot.

Reference 5 [0]

* * *

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Mercury	Reference 4
Xylene	Reference 6
Toluene	Reference 7

[3]

Compound with highest score:

Mercury (3)

* * *

Reference 4
Reference 11

5 TARGETS

Population within one-mile radius

6,608

Reference 10, Reference 12 [4]

Distance to critical habitat (of endangered species)

>1 mile

Reference 10 [0]

LIST OF REFERENCES
TND 004934188
GILMAN COMPANY, INC.

Reference No.

1 Geologic Evaluation, Tennessee Department of Health and Environment, June 30, 1981 by L. Birdwell, TDSWM.

2 Letter and Diagram; J. Covington of Gilman Co. to Steve Baxter, TDSWM; May 8, 1981.

3 Local Climatological Data - Annual Summary 1981; National Oceanic & Atmospheric Administration.

4 Uncontrolled Hazardous Waste Site Ranking System; Manual HW-10 USEPA; 1984.

5 Letter, Steve Baxter of TSWM to John Covington, Gilman Co.; July 21, 1981.

6 Memo; Norman Travis, TDSWM to TDSWM files; June 19, 1981.

7 Report of Laboratory Analyses, Gilman Co., Inc. Tennessee Department of Health & Environment, Division of Laboratories; November 14, 1985.

8 Groundwater Resources of East Tennessee ; Tenn. Department of Conservation Bulletin No. 58; by DeBuchananne & Richardson, 1956.

9 Hamilton County Well Records; Tennessee Department of Health & Environment, Division of Groundwater Resources, December 1982.

10 USGS Topographic Map, Chattanooga, Tennessee Quadrangle (105 SE).

11 Dangerous Properties of Industrial Materials, N. 1. Sax Sixth Edition, 1984.

12 1980 Census of Population and Housing; U.S. Department of Commerce -- Bureau of Census; August 1983.

13 Water Quality Management Plan for the Lower Tennessee River Basin; Tenn. Division of Water Quality Control; November 1978.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
The Gilman Company, Inc.	Riverfront Parkway

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Chattanooga	TN	37402	Hamilton	033	03

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
35° 03 03 .0	085 19 23 .0	[X] A. PRIVATE [ ] B. FEDERAL ____ [ ] C. STATE [ ] D. COUNTY [ ] E. MUNICIPAL [ ] F. OTHER ____ [ ] G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION (MONTH DAY YEAR)	02 SITE STATUS	03 YEARS OF OPERATION (BEGINNING YEAR / ENDING YEAR)
10 16 85	[ ] ACTIVE [X] INACTIVE	1920 / present ____ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

[ ] A. EPA [ ] B. EPA CONTRACTOR ____ (Name of firm) [ ] C. MUNICIPAL [ ] D. MUNICIPAL CONTRACTOR ____ (Name of firm)
[X] E. STATE [ ] F. STATE CONTRACTOR ____ (Name of firm) [ ] G. OTHER ____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
Walker Howell	Geologist 2	DSWM	(615 741-6287
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO
Jan Eldridge	Geologist 2	DSWM	(615 741-6287
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
John Bishop	Prod. & Inv. Control Mgr.	Riverfront Pkwy.	(615 756-5185
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
[X] PERMISSION [ ] WARRANT	2:30 p.m. EST	75°-80°F, sunny, slightly breezy

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
John Bishop	Gilman Company, Inc.	(615 756-5185

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO	08 DATE
Walker Howell	TDH&E	DSWM	615-741-6287	11 14 85 (MONTH DAY YEAR)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- X C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- X E. SLURRY
- X F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS 300 (55 gal.)

03 WASTE CHARACTERISTICS (Check all that apply)

- X A. TOXIC
- X B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	15,000	gallon	Trenched, allowed to dry 1 month,
OLW	OILY WASTE			then backfilled
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Xylene	36.1330-20-7			
SOL	Toluene	35.108-88-3	DR	93-95	%
SOL	MEK	999			
BAS	NaOH	266.1310-73-2	DR	10-25	%
SLU	Mercury	21.7439-97-6	LF	unknown	
10C	Titanium Dioxide	13463677	LF	unknown	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

County file (33-135) TnDHE, Nashville Central Office (DSWM)

Rebecca Harris' Files - TnDHE

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: unknown — 04 NARRATIVE DESCRIPTION

Site underlain by Sequatchie Formation, not known to be used as a water source - some possibility of migration to Knox formation, a primary regional aquifer.

01 [ ] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 [X] F. CONTAMINATION OF SOIL — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [X] ALLEGED
03 AREA POTENTIALLY AFFECTED: 0.5 (Acres) — 04 NARRATIVE DESCRIPTION

Soil in area of disposal trenches contaminated with caustic sludge and toluene.

01 [ ] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

N/A

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include names of species)

N/A

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: unknown

IV. COMMENTS

Caustic sludge was landfilled in 3 trenches, allowed to dry, then backfilled with dirt. Two trenches capped with 14' earth and a building built over one and an asphalt parking lot over the other. The third trench is covered with 2' of earth and an asphalt parking lot.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

TnDSWM central files; Site Inspection 10/16/85; Memo from Norm Travis 6/19/81; letter, Steve Baxter to John Covington 7/21/81; letter, with attachments, John Covington to Tom Tiesler, 8/9/82

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL	16,500	gal.
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE

½ (Acres)

07 COMMENTS

300 each 55 gallon drums emptied into trenches in 1976-1977

An unknown amount of toluene from a spill in 1979 soaked into soil in this area. Clean up was done under TDSWM supervision.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☒ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Trenches not lined-no barriers present. Area covered with earth cap & asphalt parking lot. Building now over one of the trenches.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☐ YES ☒ NO

02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

TDSWM central files; TWQC office memo, Smithson et. al. with attachments, 1/15/80; geological evaluation, 6/30/81, L. Birdwell TDSWM

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☒	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 2 (mi)
B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING
☐ B. DRINKING (Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☒ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.6 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
20 (ft)		300 (ft)	100,000 (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

Several industrial wells, within 1 mile radius, depth varying from 65 to 400 feet. One domestic water well 0.6 mile SW on opposite side of river - 24 feet deep. It is not known how many of these wells are in use. Chattanooga municipal water intake 2 miles upstream.

10 RECHARGE AREA
☐ YES
☒ NO
COMMENTS

11 DISCHARGE AREA
☐ YES
☒ NO
COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Tennessee River	☐	0.2 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 6,608 NO OF PERSONS	B. 19,804 NO OF PERSONS	C. 45,618 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.3 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE unknown

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site e.g. rural village densely populated urban area)

Site is on western edge of central business district in an area of medium and heavy industry. A large part of the residential development within the 1 mile radius was cleared out by urban redevelopment in the 1960's. Several multifamily complexes are within 1 mile, but the majority of the area is industrial and commercial.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A $10^{-6} - 10^{-8}$ cm/sec ☒ B $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☒ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
50 (ft)	unknown (ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
51.92 (in)	3.5 (in)	8 %	West	1 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.1 (mi)	B. 0.5 (mi)	C. _____ (mi)	D. 2 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site is located about 1,000 feet from the bank of the Tennessee River near downtown Chattanooga. Site is on land which slopes gently westward toward the river and is approximately 50' above the normal river level. Site is in 100 year floodplain. Area of trenches has been filled in approximately 12' over original grade on the east side and about two feet on the west side. A retail store and parking lot have been built on the site. The site is bordered on the east by Riverfront Parkway, a 4-lane divided arterial highway. Surface drainage is to the rear of the property and westward toward the river.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site inspection 10/16/85; USGS topo qradrangle 105 SE (Chattanooga, Tenn.); geologic evaluation by L. Birdwell, 6/30/81; Hamilton Co., Tenn. water well logs; Neighborhood Analysis - District #1, Chattanooga - Hamilton County Regional Planning Commission; 1980 Census Report, Hamilton Co. Tenn.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	4	Tenn. DHE Laboratory	Dec. 1, 1985
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
	None

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

02 IN CUSTODY OF TDSWM/SIU (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS TDSWM/SIU

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

N/A

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection 10/16/85

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
The Gilman Co., Inc.				Jones - Blair			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
P.O. Box 1257				P.O. Box 35286			
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
Chattanooga,	TN	37402		Dallas,	TX	75235	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	

III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (if applicable, list most recent first)			
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
Same since late 1920's							
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

TDSWM central files; Site inspection 10/16/85; interview with John Bishop of Gilman Co.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. CURRENT OPERATOR (Provide if different from owner)			OPERATOR'S PARENT COMPANY (If applicable)		
01 NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER				

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)			PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)		
01 NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

N/A

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
The Gilman Co., Inc.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
P.O. Box 1257	

05 CITY	06 STATE	07 ZIP CODE
Chattanooga,	TN	37402

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NONE			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site inspection 10/16/85; interview with John Bishop of Gilman Company

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ D. SPILLED MATERIAL REMOVED — 02 DATE Nov. 1979 to Jan. 1980 — 03 AGENCY _____
04 DESCRIPTION
Toluene- contaminated water pumped from excavation after transfer line leak.

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ F. WASTE REPACKAGED — 02 DATE Nov. 1979 to Jan. 1980 — 03 AGENCY _____
04 DESCRIPTION
Water/toluene pumped into 55-gallon drums.

01 ☒ G. WASTE DISPOSED ELSEWHERE — 02 DATE Jan. 1980 — 03 AGENCY _____
04 DESCRIPTION
Drums of water/toluene disposed of by licensed contractor.

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ S. CAPPING/COVERING — 02 DATE Jan. 1980 — 03 AGENCY _____
04 DESCRIPTION

Area of spillage backfilled and covered by repaved River Street.

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE Jan. 1980 — 03 AGENCY _____
04 DESCRIPTION

Transfer lines under River Street which had leaked Toluene solvent were abandoned by Gilman and replaced by overhead pipe racks.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

TDSWM central files; Memorandum, Smithson, et. al. to TWQC files 1/15/80 with attachments

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

None

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

TDSWM central files; SIU files

Site No. TND004934188

Reference No. 1

Gilman Paint

June 30, 1981

STATE OF TENNESSEE
DEPARTMENT OF PUBLIC HEALTH
CORDELL HULL BUILDING
NASHVILLE, TENNESSEE 37219

Subject: Geologic evaluation of an improper hazardous waste disposal site at Gilman's Paint Company, Inc., 801 Riverfront Parkway, Chattanooga, Tennessee.

Site: Approximately one-half acre of Gilman property encompassing three parallel trenches, each being 90 feet long, ten feet wide, and four to five feet deep. Over a period of six to eight months an estimated 300 drums (55 gal. capacity) of caustic sludge were dumped into the trenches. The sludge was allowed to dry to a consistency described by witnesses as "white and chalky-looking." The trenches were then filled to grade level and covered with two feet of borrowed residuum.

Location: Chattanooga Quadrangle 105-SE, approximately 1000 feet from the southeast bank of the Tennessee River at Mile 463 and fronting Riverfront Parkway.

Topography: The site is located in the floodplain of the Tennessee River, approximately 50 feet in elevation above normal river level. Slope toward the river was very gentle ($\leq$1%) at the time of waste disposal (1976-77). Since that time, overburden has been borrowed from Cameron Hill, directly across the parkway, to bring the site more level with the parkway. Twelve feet of this fill material overlies two of the disposal trenches, but probably not the third. (Contacts at Gilman's were unsure of the exact location of the third trench). Constructed on top of the fill are Gilman's Paint and Wallcovering store and an asphalt parking lot. Immediately behind the store the fill material slopes sharply to the original grade and probable area of the third trench. The slope is covered with limestone rip-rap, and the trench is believed to lie beneath the rear asphalt parking lot.

Drainage is to the rear of the property and westward toward the river.

Bedrock lithology: Bedrock beneath the site, according to the geologic map of the Chattanooga Quadrangle, is the Ordovician-aged Sequatchie Formation, a thin- to medium-bedded argillaceous limestone about 200 feet thick. The Sequatchie is underlain by the Chickamauga Limestone and overlain in the vicinity of Cameron Hill by the Rockwood Formation (shale, sandstone, silstone), the Chattanooga Shale, and the Fort Payne Chert.

Structure: Bedrock in the area has undergone considerable folding and faulting. Strata underlying this particular site all dip similarly, 25 degrees to the southeast (away from the river).

Soils: As mapped in the Hamilton County Soil Survey, the original soil on site is the Wolftever silt loam, an alluvium characterized by slow internal drainage. Classification of the borrow area on Cameron Hill is Fullerton chert silt loam, a residuum with internal drainage of medium rate.

Site No. TND 004934188

Reference No. 1

Hydrology: DeBuchananne and Richardson describe groundwater in the Sequatchie Formation as occurring only in small quantities and in fractures which are generally not enlarged by solution. In the upper Chickamauga Limestone water occurs again only in fractures and in no sufficient quantity for industrial or municipal use. The Rockwood Formation is reported by DeBuchananne and Richardson to be an unimportant aquifer due to its limited outcrop.

Bulletin 79 of the Tennessee Division of Geology, Part II (see references), shows the Gilman site to be outside of the limits of the 100-year flood level of the Tennessee River at Mile 463.

Depth to the water table is not known but is believed to be well below trench bottom, probably coinciding with river elevation.

No leachate has been observed on site.

Conclusions: As well-covered as the first two trenches are by a fourteen-foot cap of soil, a parking lot, and a building, there is little chance of infiltration and subsequent leaching. The rear trench, although it does not bear the benefit of an additional twelve feet of cover, does have a two-foot soil cap and several inches of asphalt protecting it from infiltration (assuming, of course, that the trench is actually located under the rear parking lot).

The naturally slow-draining soil in which the trenches are located is further protection against leachate movement. However, in the event that leachate should migrate downward into the Sequatchie Formation, it is unlikely that any significant groundwater supply would be contaminated. The Sequatchie, itself, is a poor aquifer; moreover, there are structural and lithological barriers between it and the leading regional aquifer, the Knox Group.

The two wells nearest to the site and down dip are approximately two miles away (see location map). Each draws its water from the Knox aquifer. As cross section A-A' on the Geologic Map of the Chattanooga Quadrangle shows, a thrust fault has brought the Knox Group up over the Sequatchie and Rockwood Formations, Chattanooga Shale, and Fort Payne Chert in the vicinity of the wells. Any possible plume of contamination moving through the Sequatchie would likely be prevented from reaching the Knox by the considerable thickness (597 feet) of the Rockwood Formation and by the impermeable nature of the Chattanooga Shale, which overlies the Rockwood.

Contamination of the Tennessee River is unlikely due to: 1) the nature of the soils, 2) the gentleness of slope toward the river, and 3) the dip of bedrock away from the river

REFERENCES

DeBuchananne, G.D. and R.M. Richardson, 1956, Tennessee Division of Geology Bulletin 58, Part I: Groundwater Resources of East Tennessee: Tennessee Division of Geology, Nashville, Tennessee.

Finlayson, C. Pratt, Robert H. Barnes, John M. Colvin, Jr., and Edward T. Luther, 1964, Geologic Map of the Chattanooga Quadrangle, Tennessee: Tennessee Division of Geology, Nashville, Tennessee, scale 1:24000.

Tennessee Division of Geology, 1979, Geology of Hamilton County, Tennessee, Bulletin 79, Parts I and II: Tennessee Division of Geology, Nashville, Tennessee.

U.S.D.A., 1947, Soil Survey of Hamilton County, Tennessee, Series 1937, No. 22: U.S.D.A., Washington, D.C.

U.S. Geological Survey, 1969, Chattanooga Quadrangle, 7.5 minute series (topographic) 105-SE: Reston, Virginia, scale 1:24000.

LL/ns/ 5-3

Site No. TND 004934188

Reference No. 2

THE GILMAN COMPANY, INC.
TELEPHONE (615) 756-5185

CORPORATE OFFICES
P.O. BOX 1257
SUITE 300, INTERSTATE LIFE BLDG
540 McCallie Ave
CHATTANOOGA, TN 37401

May 8, 1981

Mr. Michael S. Baxter
Environmental Consultant
Southeast Regional Health Office
2501 Milne Avenue
Chattanooga, Tennessee 37406

Dear Mr. Baxter:

In reply to your inquiry concerning the disposal of hazardous waste by The Gilman Company, I would first like for you to know present management assumed its duties in July of 1979 and therefore, I am presently able to report as to matters which have occurred under existing management. We generate two hazardous waste streams, and I have enclosed copies of our Tennessee forms. The only items we put in our B.F.I. hoppers are empty pigment bags and trash.

From the time present management assumed its responsibilities to date, we have continuously during this period sent our solvent and caustic sludge streams to sanctioned EPA disposal or reclamation sites.

We are not in a position to respond as to what was done by prior management with respect to the disposal of caustic sludge. We are endeavoring to contact prior management, and we will be back in touch with you.

If in the meantime you should have any questions, please contact me.

Respectfully yours,

John Covington
Vice-President, Manufacturing

JCjc

Enclosure

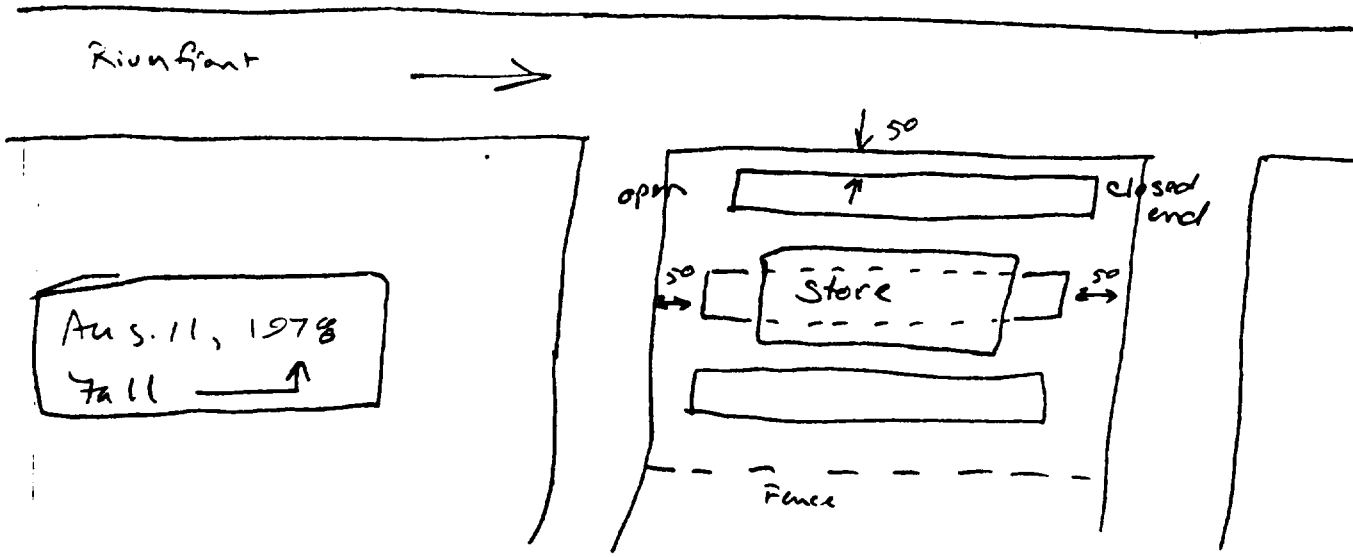
Site No. TND 004934188

Reference No. 2

PRODUCTS
- Consumer Paints
- Chemical and Industrial Coatings
- Wallcoverings

OPERATIONS
- Paint and Wallcovering Stores
- Gilman Paint and Industrial Coatings
- Gilman Wallcoverings Inc

Dump Site



1. Originally ≈ 500 drums (other drums to Alabama)
2. Began in ~~winter of 19~~ Fall/winter of 1976
3. Dumped 300 drums (emptied drums)
4. 3 trenches
   - 4" sand
   - ≈ 50 ft off road
   - ≈ 4-5 ft deep. (original grade)

   } 100 drums/trench
5. Finished dumping March/April 1977
6. Let lay in open for awhile 1-2 months
7. Then filled up and sealed. when filled it was dry and white chalky looking substance. + 2 ft.
8. Built up present grade with dirt from accross the road.
9. Store built Fall 1978 (Mat)

→ Got information from crew that did dumping.

Site No. TND 004934188

Reference No. 3

Local Climatological Data

Annual Summary With Comparative Data

1981

CHATTANOOGA, TENNESSEE

Narrative Climatological Summary

Chattanooga is located in the southern portion of the Great Valley of Tennessee, an area of the Tennessee River between the Cumberland Mountains to the west and the Appalachian Mountains to the east. Local topography is complex with a number of minor valleys and ridges giving a local relief of as much as 500 feet. The Tennessee River approaches Chattanooga from the northeast and forms a loop southwest to west to northwest of the City at an elevation of about 630 feet above mean sea level. Most of the City lies on the south side of the river. On the north and southwest sides, the terrain rises abruptly to about 1,200 feet above the river. This complex topography results in marked variations in air drainage, wind, and minimum temperatures within short distances. In winter the Cumberland Mountains have a moderating influence on the local climate by retarding the flow of cold air from the north and west.

Chattanooga enjoys a moderate climate, characterized by cool winters and quite warm summers. Because of the sheltering effect of the mountains, winter temperatures average about 3° warmer than at stations on the southern Cumberland Plateau section of the State. Winter weather is changeable and alternates between cool spells, with an occasional cold period. Extreme cold is rare. Temperatures fall as low as the freezing point on a little over one-half of the winter days. Temperatures below zero have occurred only 15 times since 1879. Snowfall from year to year is greatly variable. Some winters have little or none. Heavy snowfalls have occurred, but any appreciable accumulation of snow seldom remains on the ground more than a few days. Ice storms of freezing rain or glaze are not uncommon; occasionally mid-winter icing becomes severe enough to do some damage in the area.

Summer temperatures are either in the high eighties or low nineties. Temperatures of 100° or higher are unusual, having occurred less than one-fourth of the years since the turn of the century. Most afternoon temperatures are modified by thunderstorms; temperatures frequently plunge 10° to 15° in a matter of minutes during one of these showers.

Precipitation in the Chattanooga area is well distributed throughout the year with the greater amounts in wintertime when cyclonic storms from the Gulf of Mexico reach the area with greater intensity and frequency. A second peak rainfall period generally occurs in July, principally from thundershowers that move into the area from the south and southwest. During any year there are usually a few of these storms that can be classified as severe, with hail and damaging winds. On the average, a rainfall at least as great as 1.5 inches in one hour can be expected about once every two years, 3 inches in two hours once every ten years, and 4 inches in 12 hours every five or six years.

The growing season averages 228 days. Records from 1940 to date show the average date of last freezing temperatures in spring to be April 3 and the latest, April 25. The average date of the first freezing temperature in the fall is November 9 and the earliest, October 27.

Spring and autumn are very enjoyable seasons in Chattanooga, with many days being nearly ideal in temperature. To many, the fall months of September, October, and November are the most pleasant. Rainfall is at a minimum, sunshine at a relative maximum and temperature extremes are practically non-existent.

Site No. TND 004934188

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Reference No. 3

ATIC CENTER

Meteorological Data For The Current Year

Station: CHATTANOOGA, TENNESSEE # 13882 — LOVELL FIELD — Standard time used: EASTERN — Latitude 35° 02' N — Longitude 85° 12' W — Elevation (ground): 665 feet — Year 1981

Month	Temperature °F: Averages: Daily maximum	Daily minimum	Monthly	Extremes: Highest	Date	Lowest	Date	Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Total	Greatest in 24 hrs.	Date	Snow, ice pellets: Total	Greatest in 24 hrs.	Date	Relative humidity, pct. (Local time): Hour 01	Hour 07	Hour 13	Hour 19	Wind: Resultant: Direction	Speed m.p.h.	Average speed m.p.h.	Fastest mile: Speed m.p.h.	Direction	Date	Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperature °F: Maximum 90° and above	32° and below	Minimum 32° and below	0° and below	Average station pressure mb: Elev 688 feet m.s.l.
JAN	46.5	24.5	35.5	64	25	8	12	907	0	1.91	0.75	20-21	T	T	6	68	74	69	51	34	2.8	6.3	23	34	2	69	5.3	12	8	13	5	0	0	2	0	3	26	0	995.6
FEB	55.3	31.4	43.4	75	26	8	12	600	0	5.07	2.11	10-11	T	T	11	71	76	52	53	25	1.7	6.4	23	22	23	66	5.4	7	12	9	4	0	2	1	0	2	15	0	996.6
MAR	60.5	35.7	48.1	83	31	25	17	515	0	4.44	2.12	29-30	0.0	0.0		69	77	43	44	33	2.4	7.2	23	18	30	75	5.8	8	11	12	10	0	1	0	0	0	12	0	990.9
APR	77.2	52.2	64.7	87	28	37	6	70	68	3.81	1.17	4-5	0.0	0.0		72	81	47	47	22	3.1	7.5	23	19	8	78	6.2	8	8	14	9	0	8	2	0	0	0	0	989.8
MAY	76.0	53.2	64.6	90	30	42	16	81	77	3.38	1.05	18-19	0.0	0.0		81	82	55	57	29	0.9	5.8	23	18	31	65	7.5	4	7	20	10	0	6	0	1	0	0	0	989.5
JUN	88.5	67.5	78.0	97	25	61	19	0	400	3.70	1.35	31-1	0.0	0.0		85	86	57	57	24	1.6	5.3	30	34	22	78	5.4	10	10	10	11	0	12	2	1	0	0	0	991.5
JUL	91.8	70.9	81.4	98	14	65	31	0	513	3.99	1.57	1	0.0	0.0		80	85	53	60	23	1.0	5.3	23	36	24	73	6.5	4	15	12	10	0	12	0	2	0	0	0	992.2
AUG	87.0	67.6	77.3	98	5	60	22	0	385	4.21	1.61	29-30	0.0	0.0		83	87	57	61	18	0.9	4.1	24	34	6	68	6.6	5	13	13	12	0	5	1	1	0	0	0	992.2
SEP	81.3	58.1	69.7	88	13	42	19	31	178	2.74	1.09	1	0.0	0.0		82	84	52	58	25	0.4	4.3	17	35	6	77	4.7	12	13	5	4	0	2	5	0	0	0	0	993.2
OCT	69.8	47.4	58.6	89	1	32	20	211	21	2.80	0.85	25-26	0.0	0.0		73	79	52	58	32	1.5	5.4	24	31	18	68	6.9	6	8	17	8	0	0	3	0	0	1	0	995.3
NOV	62.5	39.1	50.8	76	4	25	22	422	2	4.85	1.60	4-5	0.0	0.0		79	85	54	64	32	1.2	4.2	17	31	21	61	6.3	8	6	16	8	0	4	2	0	0	9	0	993.9
DEC	46.2	30.2	38.2	60	23	9	20	823	0	5.02	2.02	30-1	0.1	0.1	21	73	76	59	63	33	2.2	6.8	21	31	17	50	7.0	7	6	18	13	0	0	2	0	2	17	0	994.6
YEAR	70.2	48.2	59.2	98	AUG 5	8	FEB 12	3660	1644	45.92	2.12	MAR 29-30	0.1	0.1	DEC 21	76	81	53	56	29	1.0	5.7	30	34	JUN 22	70	6.2	91	115	159	109	0	52	20	4	7	80	0	993.4

Normals, Means, And Extremes

Month	Temperatures °F: Normal: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Normal Degree days Base 65 °F: Heating	Cooling	Precipitation in inches: Water equivalent: Normal	Maximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	Year	Snow, ice pellets: Maximum monthly	Year	Maximum in 24 hrs.	Year	Relative humidity pct. (Local time): Hour 01	Hour 07	Hour 13	Hour 19	Wind: Mean speed m.p.h.	Prevailing direction	Fastest mile #: Speed m.p.h.	Direction	Year	Pct of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Mean number of days: Sunrise to sunset: Clear	Partly cloudy	Cloudy	Precipitation .01 inch or more	Snow, ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility ¼ mile or less	Temperatures °F: Max 90 and above	32 and below	Min 32 and below	0 and below	Average station pressure mb: Elev feet m.s.l.
(a)				42		42					42		42		42		51		51		41	51	51	51	41	23	6	6		51	51	51	51	51	51	51	51	51	41	41	41	41	9
J	49.9	30.5	40.2	78	1949	-10	1966	769	0	5.38	12.28	1947	1.13	1961	4.44	1949	8.4	1966	8.4	1966	79	81	63	67	7.2	S	30	31	1978	42	6.7	7	7	17	12	1	1	3	0	0	0	0	995.5
F	53.4	32.3	42.9	79	1977	1	1958	625	6	5.19	11.03	1944	0.62	1941	3.93	1958	10.4	1960	8.7	1960	77	80	57	60	7.6	S	37	25	1976	44	6.4	8	5	15	11	1	2	2	0	0	0	0	994.8
M	61.2	38.4	49.8	87	1963	9	1960	483	12	5.63	16.32	1940	1.17	1967	6.53	1973	10.1	1960	6.0	1960	77	81	53	55	8.1	S	30	24	1978	51	6.3	8	8	16	12	*	4	2	0	0	0	0	992.0
A	72.4	46.1	60.5	93	1942	26	1973	165	30	4.42	11.92	1964	0.44	1942	3.07	1944	1.0	1971	1.0	1971	78	81	49	51	7.6	S	32	18	1977	60	5.4	9	8	13	10	*	4	2	*	0	1	0	990.1
M	81.0	56.0	68.5	99	1941	34	1971	51	159	3.43	9.21	1979	0.54	1941	3.47	1979	T	1948	T	1944	86	85	52	57	6.1	S	33	29	1977	65	4.8	9	10	12	10	0	7	3	0	0	0	0	987.6
J	87.5	64.5	76.0	104	1952	41	1972	0	330	3.68	9.40	1949	0.87	1968	4.85	1949	0.0		0.0		88	86	55	60	5.4	S	30	34	1981	65	5.7	8	12	10	11	0	10	2	1	0	0	0	987.1
J	89.5	68.1	78.8	106	1952	51	1972	0	428	5.14	11.79	1979	0.20	1957	5.77	1979	0.0		0.0		88	89	57	64	5.2	S	26	35	1980	61	6.0	7	13	11	12	0	11	3	1	0	0	0	990.5
A	89.0	67.0	78.0	105	1947	50	1946	0	403	3.22	7.54	1975	0.56	1963	3.70	1941	0.0		0.0		90	91	57	66	4.7	S	37	05	1979	63	5.6	4	13	10	10	0	6	3	1	0	0	0	987.4
S	83.4	61.4	72.9	102	1954	36	1967	9	216	3.69	14.15	1977	0.34	1941	6.62	1977	0.0		0.0		89	90	56	67	5.0	S	26	15	1979	63	5.4	10	10	10	4	0	4	4	0	0	0	0	992.9
O	73.5	48.1	60.8	94	1954	22	1952	182	52	2.95	9.91	1949	0.24	1963	3.52	1977	T	1954	T	1954	88	89	53	67	5.1	S	24	31	1981	63	4.7	14	7	10	7	0	1	4	0	0	0	0	994.7
N	60.7	37.1	48.9	84	1963	4	1950	483	0	3.94	13.59	1948	0.93	1953	4.56	1948	2.6	1950	2.8	1950	82	84	55	66	6.2	S	24	18	1974	53	5.6	11	6	13	9	*	1	4	*	0	0	0	993.5
D	52.9	31.4	41.2	78	1951	-2	1962	738	0	5.25	13.68	1961	0.86	1965	5.25	1942	9.1	1963	8.9	1963	81	83	62	69	6.6	S	28	31	1976	43	6.5	4	6	17	11	*	1	3	0	1	0	*	995.4
YR	71.1	46.5	59.8	106	JUL 1952	-10	JAN 1966	3505	1636	51.92	16.32	MAR 1940	0.20	JUL 1957	6.62	SEP 1977	10.4	FEB 1960	8.9	DEC 1963	84	85	56	62	6.2	S	37	05	AUG 1979	57	5.9	107	105	153	122	2	56	15	49	4	0	0	[illegible]

November 1975 to date.

(a) Length of record, years, through the current year unless otherwise noted, based on January data.
(b) 70° and above at Alaskan stations.
* Less than one half.
T Trace.

NORMALS - Based on record for the 1941-1970 period.
DATE OF AN EXTREME - The most recent in cases of multiple occurrence.
PREVAILING WIND DIRECTION - Record through 1963.
WIND DIRECTION - Numerals indicate tens of degrees clockwise from true north. 00 indicates calm.
FASTEST MILE WIND - Speed is fastest observed 1-minute value when the direction is in tens of degrees.

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in the locality as follows:

Precipitation
Minimum monthly : .04 in Sep. 1919.
Maximum in 24 hours: 7.61 in Mar. 1886.

Snowfall
Maximum monthly : 15.8 in Jan. 1893.
Maximum in 24 hours: 12.0 in Dec. 1886.

Site No. TND 004934188

Reference No. 4

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual
(HW-10)

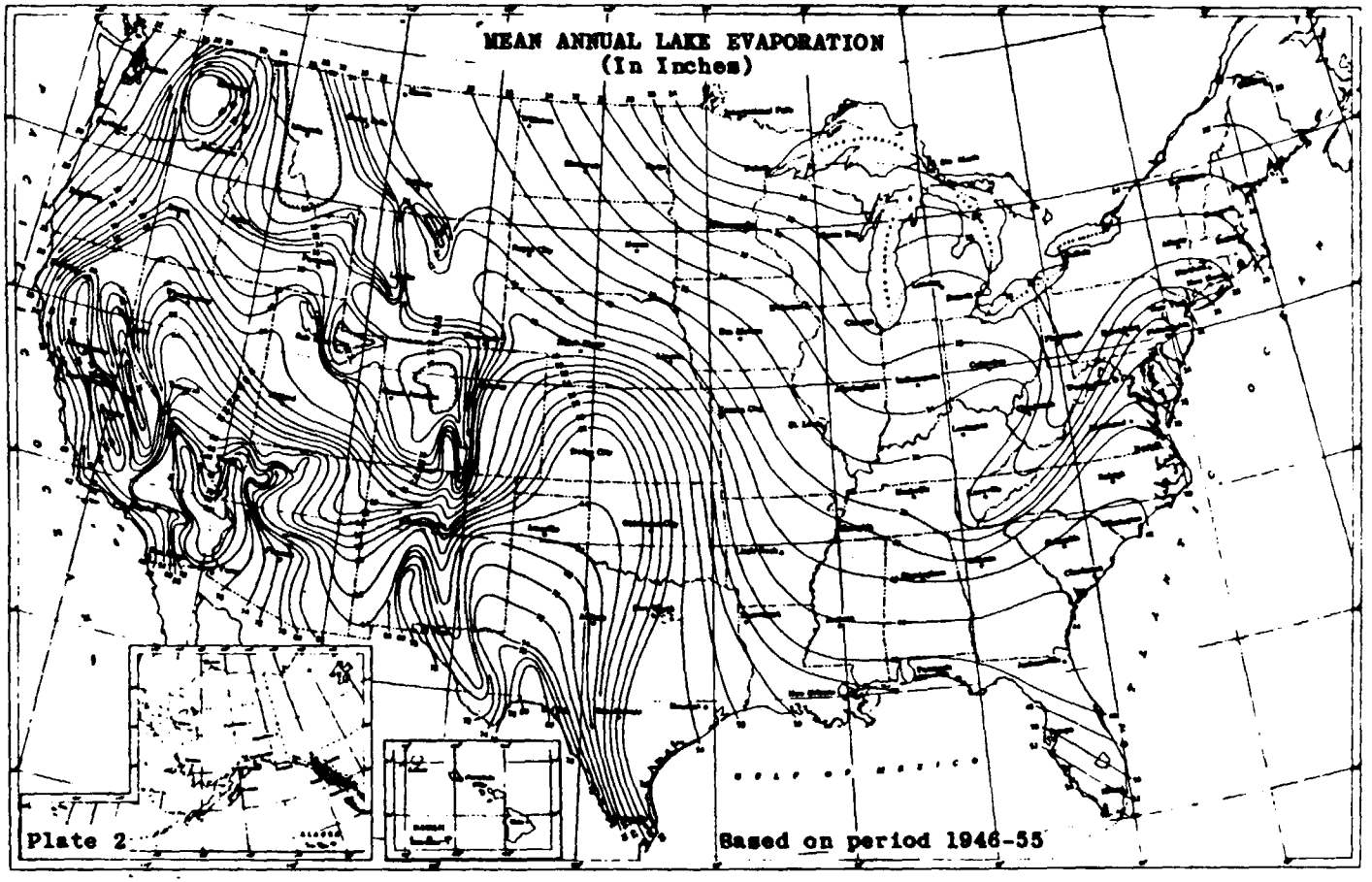
Originally Published in
the July 16, 1982, *Federal Register*

United States
Environmental Protection
Agency

1984

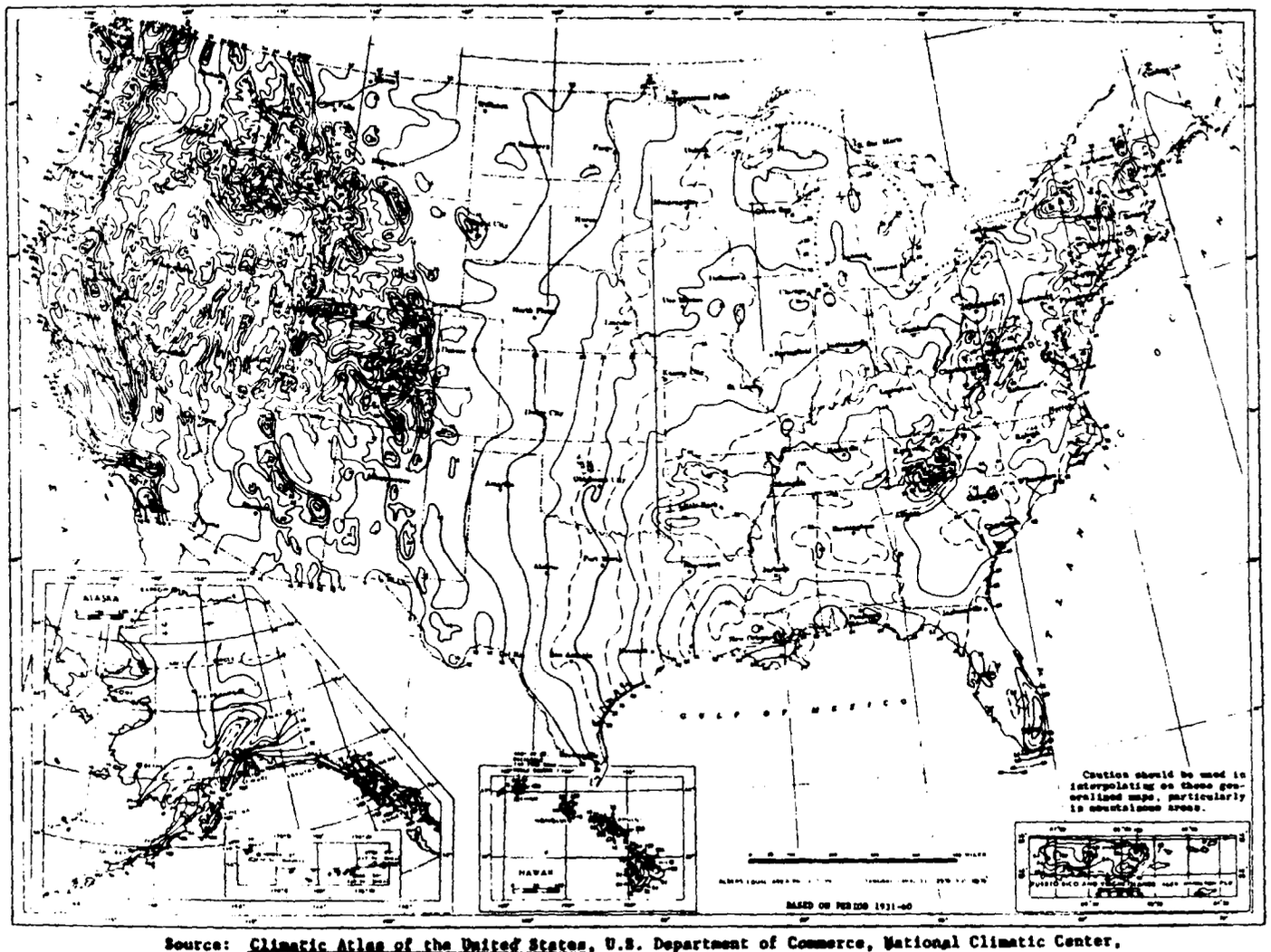
Site No. TND 004934188

Reference No. 4



Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Ashville, N.C., 1979.

FIGURE 4
MEAN ANNUAL LAKE EVAPORATION
(IN INCHES)



Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Asheville, N.C., 1979.

FIGURE 5
NORMAL ANNUAL TOTAL PRECIPITATION (INCHES)

TABLE 2

PERMEABILITY OF GEOLOGIC MATERIALS*

Type of Material	Approximate Range of Hydraulic Conductivity	Assigned Value
Clay, compact till, shale; unfractured metamorphic and igneous rocks	$<10^{-7}$ cm/sec	0
Silt, loess, silty clays, silty loams, clay loams; less permeable limestone, dolomites, and sandstone; moderately permeable till	$10^{-5} - 10^{-7}$ cm/sec	1
Fine sand and silty sand; sandy loams; loamy sands; moderately permeable limestone, dolomites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till	$10^{-3} - 10^{-5}$ cm/sec	2
Gravel, sand; highly fractured igneous and metamorphic rocks; permeable basalt and lavas; karst limestone and dolomite	$>10^{-3}$ cm/sec	3

*Derived from:

Davis, S. N., Porosity and Permeability of Natural Materials in Flow-Through Porous Media, R.J.M. DeWest ed., Academic Press, New York, 1969

Freeze, R.A. and J.A. Cherry, Groundwater, Prentice-Hall, Inc., New York, 1979

TABLE 3

CONTAINMENT VALUE FOR GROUND WATER ROUTE

Assign containment a value of 0 if: (1) all the hazardous substances at the facility are underlain by an essentially non permeable surface (natural or artificial) and adequate leachate collection systems and diversion systems are present; or (2) there is no ground water in the vicinity. The value "0" does not indicate no risk. Rather, it indicates a significantly lower relative risk when compared with more serious sites on a national level. Otherwise, evaluate the containment for each of the different means of storage or disposal at the facility using the following guidance.

A. Surface Impoundment

	Assigned Value
Sound run-on diversion structure, essentially non permeable liner (natural or artificial) compatible with the waste, and adequate leachate collection system	0
Essentially non permeable compatible liner with no leachate collection system; or inadequate freeboard	1
Potentially unsound run-on diversion structure; or moderately permeable compatible liner	2
Unsound run-on diversion structure; no liner; or incompatible liner	3

B. Containers

	Assigned Value
Containers sealed and in sound condition, adequate liner, and adequate leachate collection system	0
Containers sealed and in sound condition, no liner or moderately permeable liner	1
Containers leaking, moderately permeable liner	2
Containers leaking and no liner or incompatible liner	3

C. Piles

	Assigned Value
Piles uncovered and waste stabilized; or piles covered, waste unstabilized, and essentially non permeable liner	0
Piles uncovered, waste unstablized, moderately permeable liner, and leachate collection system	1
Piles uncovered, waste unstabilized, moderately permeable liner, and no leachate collection system	2
Piles uncovered, waste unstablized, and no liner	3

D. Landfill

	Assigned Value
Essentially non permeable liner, liner compatible with waste, and adequate leachate collection system	0
Essentially non permeable compatible liner, no leachate collection system, and landfill surface precludes ponding	1
Moderately permeable, compatible liner, and landfill surface precludes ponding	2
No liner or incompatible liner; moderately permeable compatible liner; landfill surface encourages ponding; no run-on control	3

TABLE 4
WASTE CHARACTERISTICS VALUES FOR SOME COMMON CHEMICALS

CHEMICAL/COMPOUND	TOXICITY [1]	FLAMMABILITY [2]	IGNITABILITY [3]	REACTIVITY [3]
Acetaldehyde	3	0	3	2
Acetic Acid	3	0	2	1
Acetone	2	0	3	0
Aldrin	3	3	1	0
Ammonia, Anhydrous	3	0	1	0
Aniline	3	1	2	0
Benzene	3	[illegible]	3	0
Carbon Tetrachloride	3	3	0	0
Chlordane	3	3	0*	0*
Chlorobenzene	2	2	3	0
Chloroform	3	3	0	0
Cresol-O	3	1	2	0
Cresol-M&P	3	1	1	0
Cyclohexane	2	2	3	0
Endrin	3	3	1	0
Ethyl Benzene	2	1	3	0
Formaldehyde	3	0	2	0
Formic Acid	3	0	2	0
Hydrochloric Acid	3	0	0	0
Isopropyl Ether	3	1	3	1
Lindane	3	3	1	0
Methane	1	1	3	0
Methyl Ethyl Ketone	2	0	3	0
Methyl Parathion in Xylene Solution	3	0Δ	3	2
Naphthalene	2	1	2	0
Nitric Acid	3	0	0	0
Parathion	3	0Δ	1	2
PCB	3	3	0Δ	0Δ
Petroleum, Kerosene (Fuel Oil No. 1)	3	1	2	0
Phenol	3	1	2	0
Sulfuric Acid	3	0	0	2
Toluene	2	1	3	0
Trichlorobenzene	2	3	1	0
α-Trichloroethane	2	2	1	0
Xylene	2	1	3	0

[1] Sax, N. I., Dangerous Properties of Industrial Materials, Van Nostrand Rheinhold Co., New York, 4th ed., 1975. The highest rating listed under each chemical is used.

[2] JRB Associates, Inc., Methodology for Rating the Hazard Potential of Waste Disposal Sites, May 5, 1980.

[3] National Fire Protection Association, National Fire Codes, Vol. 13, No. 49, 1977.

* Professional judgment based on information contained in the U.S. Coast Guard CHRIS Hazardous Chemical Data, 1978.

Δ Professional judgment based on existing literature.

TABLE 5

PERSISTENCE (BIODEGRADABILITY) OF SOME ORGANIC COMPOUNDS*

VALUE = 3 HIGHLY PERSISTENT COMPOUNDS

aldrin	heptachlor
benzopyrene	heptachlor epoxide
benzothiazole	1,2,3,4,5,7,7-heptachloronorbornene
benzothiophene	hexachlorobenzene
benzyl butyl phthalate	hexachloro-1,3-butadiene
bromochlorobenzene	hexachlorocyclohexane
bromoform butanal	hexachloroethane
bromophenyl phenyl ether	methyl benzothiazole
chlordane	pentachlorobiphenyl
chlorohydroxy benzophenone	pentachlorophenol
bis-chloroisopropyl ether	1,1,3,3-tetrachloroacetone
m-chloronitrobenzene	tetrachlorobiphenyl
DDE	thiomethylbenzothiazole
DDT	trichlorobenzene
dibromobenzene	trichlorobiphenyl
dibutyl phthalate	trichlorofluoromethane
1, 4-dichlorobenzene	2,4,6-trichlorophenol
dichlorodifluoroethane	triphenyl phosphate
dieldrin	bromodichloromethane
diethyl phthalate	bromoform
di(2-ethylhexyl)phthalate	carbon tetrachloride
dihexyl phthalate	chloroform
di-isobutyl phthalate	chloromochloromethane
dimethyl phthalate	dibromodichloroethane
4,6-dinitro-2-aminophenol	tetrachloroethene
dipropyl phthalate	1,1,2-trichloroethane
endrin	

VALUE = 1 SOMEWHAT PERSISTENT COMPOUNDS

acetylene dichloride	limonene
behenic acid, methyl ester	methyl ester of lignoceric acid
benzene	methane
benzene sulfonic acid	2-methyl-5-ethyl-pyridine
butyl benzene	methyl naphthalene
butyl bromide	methyl palmitate
e-caprolactam	methyl phenyl carbinol
carbon-disulfide	methyl stearate
o-cresol	naphthalene
decene	nonane
1,2-dichloroethane	octane
1,2-dimethoxy benzene	octyl chloride
1,3-dimethyl naphthalene	pentane
1,4-dimethyl phenol	phenyl benzoate
dioctyl adipate	phthalic anhydride
n-dodecane	propylbenzene
ethyl benzene	l-terpineol
2-ethyl-n-hexene	toluene
o-ethyltoluene	vinyl benzene
isodecane	xylene
isoprophyl benzene	

VALUE = 2 PERSISTENT COMPOUNDS

acenaphthylene	cis-2-ethyl-4-methyl-1,3-dioxolane
atrazine	trans-2-ethyl-4-methyl-1,3-dioxolane
(diethyl) atrazine	guaiacol
barbitel	2-hydroxyadiponitrile
borneol	isophorone
bromobenzene	indene
camphor	isoborneol
chlorobenzene	isopropenyl-r-isopropyl benzene
1,2-bis-chloroethoxy ethane	2-methoxy biphenyl
b-chloroethyl methyl ether	methyl biphenyl
chloromethyl ether	methyl chloride
chloromethyl ethyl ether	methylindene
3-chloropyridine	methylene chloride
di-t-butyl-p-benzoquinone	nitroanisole
dichloroethyl ether	nitrobenzene
dihyrocarvone	1,1,2-trichloroethylene
dimethyl sulfoxide	trimethyl-trioxo-hexahydro-triazine isomer
2,6-dinitrotoluene	

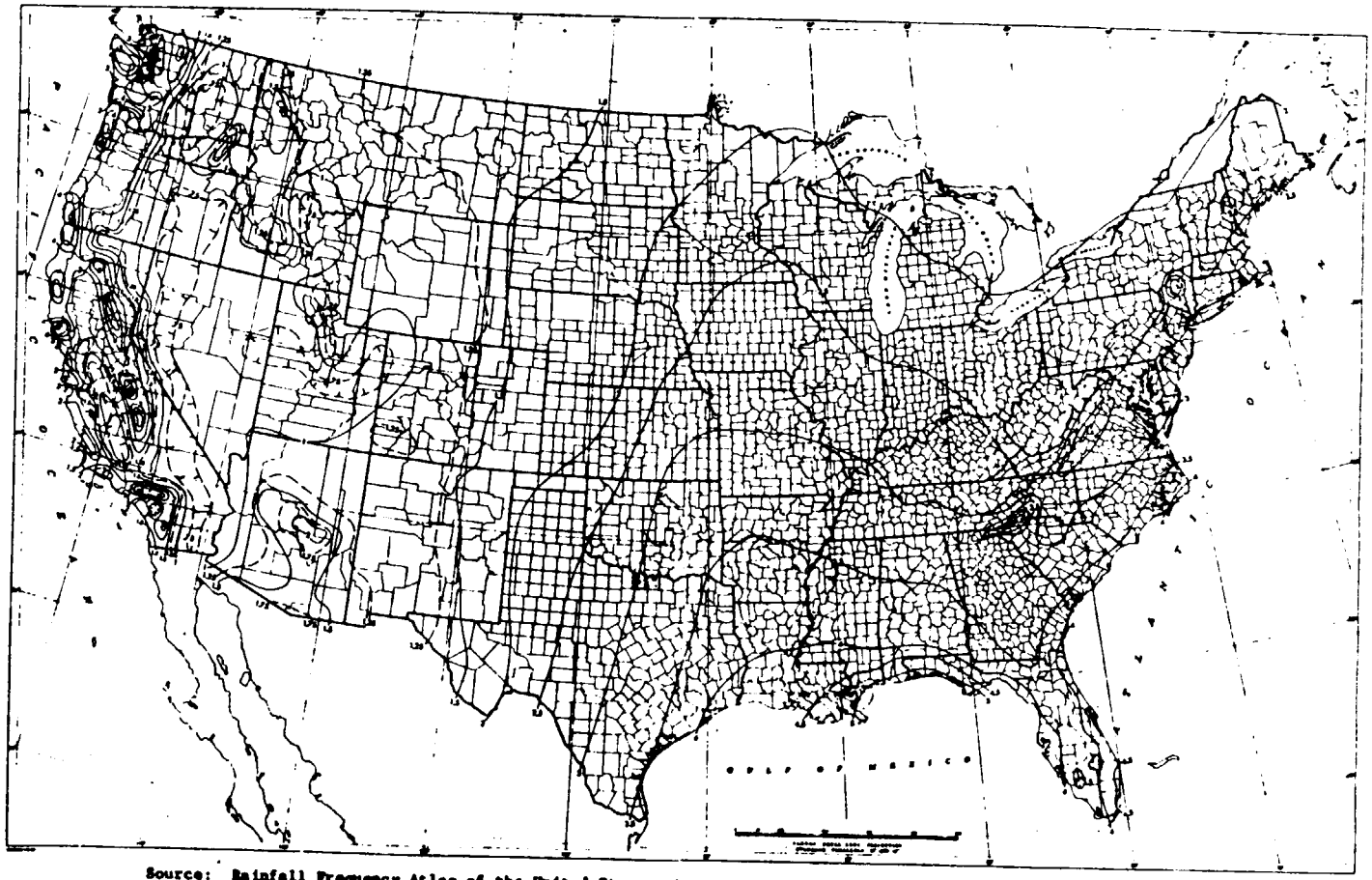
VALUE = 0 NONPERSISTENT COMPOUNDS

acetaldehyde	methyl benzoate
acetic acid	3-methyl butanol
acetone	methyl ethyl ketone
acetophenone	2-methylpropanol
benzoic acid	octadecane
di-isobutyl carbinol	pentadecane
docosane	pentanol
eicosane	propanol
ethanol	propylamine
ethylamine	tetradecane
hexadecane	n-tridecane
methanol	n-undecane

TABLE 8

VALUES FOR FACILITY SLOPE AND INTERVENING TERRAIN

Facility Slope	Intervening Terrain				
	Terrain Average Slope ≤3%; or Site Separated from Water Body by Areas of Higher Elevation [31]	Terrain Average Slope 3-5%	Terrain Average Slope 5-8%	Terrain Average Slope >8%	Site in Surface Water
Facility is closed basin	0	0	0	0	3
Facility has average slope ≤3%	0	1	1	2	3
Average slope 3-5%	0	1	2	2	3
Average slope 5-8%	0	2	2	3	3
Average slope >8%	0	2	3	3	3



Source: Rainfall Frequency Atlas of the United States, Technical Paper No. 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1963.

FIGURE 8
1-YEAR 24-HOUR RAINFALL
(INCHES)

TABLE 9

CONTAINMENT VALUES FOR SURFACE WATER ROUTE

Assign containment a value of 0 if: (1) all the waste at the site is surrounded by diversion structures that are in sound condition and adequate to contain all runoff, spills, or leaks from the waste; or (2) intervening terrain precludes runoff from entering surface water. Otherwise, evaluate the containment for each of the different means of storage or disposal at the site and assign a value as follows:

A. Surface Impoundment

	Assigned Value
Sound diking or diversion structure, adequate freeboard, and no erosion evident	0
Sound diking or diversion structure, but inadequate freeboard	1
Diking not leaking, but potentially unsound	2
Diking unsound, leaking, or in danger of collapse	3

B. Containers

	Assigned Value
Containers sealed, in sound condition, and surrounded by sound diversion or containment system	0
Containers sealed and in sound condition, but not surrounded by sound diversion or containment system	1
Containers leaking and diversion or containment structures potentially unsound	2
Containers leaking, and no diversion or containment structures or diversion structures leaking or in danger of collapse	3

C. Waste Piles

	Assigned Value
Piles are covered and surrounded by sound diversion or containment system	0
Piles covered, wastes unconsolidated, diversion or containment system not adequate	1
Piles not covered, wastes unconsolidated, and diversion or containment system potentially unsound	2
Piles not covered, wastes unconsolidated, and no diversion or containment or diversion system leaking or in danger or collapse	3

D. Landfill

	Assigned Value
Landfill slope precludes runoff, landfill surrounded by sound diversion system, or landfill has adequate cover material	0
Landfill not adequately covered and diversion system sound	1
Landfill not covered and diversion system potentially unsound	2
Landfill not covered and no diversion system present, or diversion system unsound	3

TABLE 10

VALUES FOR SENSITIVE ENVIRONMENT (SURFACE WATER)

ASSIGNED VALUE =	0	1	2	3
DISTANCE TO WETLANDS* (5 acre minimum)				
Coastal	>2 miles	1 - 2 miles	½ - 1 mile	< ½ mile
Fresh Water	>1 mile	¼ - 1 mile	100 feet - ¼ mile	< 100 feet
DISTANCE TO CRITICAL HABITAT (of endangered species)**	>1 mile	½ - 1 mile	¼ - ½ mile	< ¼ mile

*Wetland is defined by EPA in the Code of Federal Regulations 40 CFR Part 230, Appendix A, 1980

**Endangered species are designated by the U.S. Fish and Wildlife Service.

TABLE 11

NFPA REACTIVITY RATINGS

NFPA LEVEL		Assigned Value
0	Materials which are normally stable even under fire exposure conditions and which are not reactive with water.	0
1	Materials which in themselves are normally stable but which may become unstable at elevated temperatures and pressures or which may react with water with some release of energy but not violently.	1
2	Materials which in themselves are normally unstable and readily undergo violent chemical change but do not detonate. Includes materials which can undergo chemical change with rapid release of energy at normal temperatures and pressures or which can undergo violent chemical change at elevated temperatures and pressures. Also includes those materials which may react violently with water or which may form potentially explosive mixtures with water.	2
3	Materials which in themselves are capable of detonation or of explosive decomposition or of explosive reaction but which requires a strong initiating source or which must be heated under confinement before initiation. Includes materials which are sensitive to thermal or mechanical shock at elevated temperatures and pressures or which react explosively with water without requiring heat or confinement.	3
4	Materials which in themselves are readily capable of detonation or of explosive decomposition or explosive reaction at noraml temperatures and pressures. Includes materials which are sensitive to mechanical or localized thermal shock.	3

TABLE 12

INCOMPATIBLE MATERIALS

In the lists below, the mixing of a Group A material with a Group B material may have the potential consequence as noted.

Group 1-A	Group 1-B
Acetylene sludge	Acid sludge
Akaline caustic liquids	Acid and water
Alkaline cleaner	Battery acid
Alkaline corrosive liquids	Chemical cleaners
Alkaline corrosive battery fluid	Electrolyte acid
Caustic wastewater	Etching acid liquid or solvent
Lime sludge and other corrosive alkalies	Pickling liquor and other corrosive acids
Lime wastewater	Spent acid
Lime and water	Spent mixed acid
Spent caustic	Spent sulfuric acid

Potential consequences: Heat generation; violent reaction.

Group 2-A	Group 2-B
Aluminum	Any waste in Group 1-A or 1-B
Berylium	
Calcium	
Lithium	
Potassium	
Sodium	
Zinc powder	
Other reactive metals and metal hydrides	

Potential consequences: Fire or explosion; generation of flammable hydrogen gas.

Group 3-A	Group 3-B
Alcohols	Any concentrated waste in Groups 1-A or 1-B
Water	Calcium
	Lithium
	Metal hydrides
	Potassium
	SO_2Cl_2, $SOCl_2$, PCl_2, CH_3, $SiCl_3$
	Other water-reactive waste

Potential consequences: Fire, explosion, or heat generation; generation of flammable or toxic gases.

Group 4-A	Group 4-B
Alcohols	Concentrated Group 1-A or 1-B wastes
Aldehydes	Group 2-A wastes
Halogenated hydrocarbons	
Nitrated hydrocarbons	
Unsaturated hydrocarbons	
Other reactive organic compounds and solvents	

Potential consequences: Fire, explosion, or violent reaction.

Group 5-A	Group 5-B
Spent cyanide and sulfide solutions	Group 1-B wastes

Potential consequences: Generation of toxic hydrogen cyanide or hydrogen sulfide gas.

Group 6-A	Group 6-B
Chlorates	Acetic acid and other organic acids
Chlorine	Concentrated mineral acides
Chlorites	Group 2-A wastes
Chromic acid	Group 4-A wastes
Hyphochlorites	Other flammable and combustible wastes
Nitrates	
Nitric acid, fuming	
Perchlorates	
Permanganates	
Peroxides	
Other strong oxidizers	

Potential consequences: Fire, explosion, or violent reaction.

Source: Hazardous Waste Management Law, Regulations, and Guidelines for the Handling of Hazardous Waste. California Department of Health, Sacramento, California, February 1975.

TABLE 13

VALUES FOR LAND USE (AIR ROUTE)

ASSIGNED VALUE =	0	1	2	3
Distance to Commercial-Industrial	>1 mile	½ - 1 mile	¼ - ½ mile	< ¼ mile
Distance to National/State Parks, Forests, Wildlife Reserves, and Residential Areas	>2 miles	1 - 2 miles	½ - 1 mile	< ½ mile
Distance to Agricultural Lands (in Production within 5 years)				
Ag Land	>1 mile	½ - 1 mile	¼ - ½ mile	< ¼ mile
Prime Ag Land*	>2 miles	1 - 2 miles	½ - 1 mile	< ½ mile
Distance to Historic/Landmark Sites (National Register of Historic Places and National Natural Landmarks)				within view of site or if site is subject to significant impacts

*Defined in the Code of Federal Regulations, 7 CFR 657.5, 1981.

TABLE 14

NFPA IGNITABILITY LEVELS AND ASSIGNED VALUES

NFPA LEVEL	ASSIGNED VALUE
4 Very flammable gases, very volatile flammable liquids, and materials that in the form of dusts or mists readily form explosive mixtures when dispersed in air. 3 Liquids which can be ignited under all normal temperature conditions. Any material that ignites spontaneously at normal temperatures in air.	3
2 Liquids which must be moderately heated before ignition will occur and solids that readily give off flammable vapors.	2
1 Materials that must be preheated before ignition can occur. Most combustible solids have a flammability rating of 1.	1
0 Materials that will not burn.	0

TABLE 15

VALUES FOR SENSITIVE ENVIRONMENTS (FIRE AND EXPLOSION)

ASSIGNED VALUE =	0	1	2	3
Distance to Wetlands*	>100 feet	--	--	<100 feet
Distance to Critical Habitat**	>½ mile	1000 feet - ½ mile	100 - 1000 feet	<100 feet

*Wetland is defined by EPA in the Code of Federal Regulations 40 CFR Part 230, Appendix A, 1980

**Designated by the U.S. Fish and Wildlife Service.

Site No. TND 004934188

Reference No. 5

STATE OF TENNESSEE
DEPARTMENT OF PUBLIC HEALTH
SOUTHEAST REGIONAL OFFICE
2501 MILNE STREET
CHATTANOOGA, TENNESSEE 37406

July 21, 1981

Mr. John Covington
Vice-President, Manufacturing
The Gilman Paint Company, Inc.
801 Riverfront Parkway
Chattanooga, Tennessee 37402

Re: Abandoned Hazardous Waste
Disposal Site
Riverfront Parkway
Chattanooga

Dear Mr. Covington:

This office has completed an evaluation of the abandoned hazardous waste disposal site owned by The Gilman Paint Company, Inc., Chattanooga, Tennessee. The site, located in the vicinity of the company's retail store on Riverfront Parkway, consisted of three parallel trenches, each being approximately ninety (90) feet long, ten (10) feet wide and four (4) feet deep. Over a period of six to eight months from 1976 to 1977, an estimated three hundred (300) drums (55 gallon capacity) of caustic sludge were dumped into the trenches. The sludge, derived from cleaning paint vats with sodium hydroxide was allowed to dry for approximately one month and covered. All trenches were filled back to the original grade and covered with at least two feet of borrowed residuum. Also, while grading for the new retail structure, two trenches received an additional twelve (12) feet of cover material.

Based on site investigations by this office, along with reports submitted by Lynn Lyle, staff geologist, and Norman Travis, staff chemist, the following conclusions were attained.

1. No leachate has been observed on site and the chance of future leaching appears minimal due to abundant surface cover material. Trench (1), located under the store's front parking area was covered with a fourteen (14) foot soil cap and several inches of asphalt surfacing material. Trench (2) also received the fourteen (14) foot cap and is located beneath the building structure. Trench (3) apparently located under the rear parking lot does not have the additional twelve (12) feet of cover but does contain the two foot cap plus a layer of asphalt, which minimizes infiltration.

Site No. TND 004934188

Reference No. 5

2. The naturally slow-draining soil in which the trenches are located provides additional protection against leachate movement. However, in the event that leachate should migrate downward into the underlying Sequatchie Rock Formation, it is unlikely that any significant groundwater supply would be contaminated. The Sequatchie is a poor aquifer and there exists structural as well as lithological barriers between it and the leading regional aquifer, the Knox Group.

3. The two wells nearest to the site are approximately two miles away. Each draws its water from the Knox aquifer. Any plume of contamination moving through the Sequatchie would likely be prevented from reaching the Knox by the considerable thickness (597') of the Rockwood Formation and by the impermeable Chattanooga Shale which overlies the Rockwood.

Not likely except in structurally complex areas

Rockwood and Chattanooga occur above Sequat

4. Significant contamination of the Tennessee River is unlikely due to:

   a) The small quantity of leachate that could be generated in relation to the streams dilution potential.

   b) The soil nature and gentle slope toward the river.

   c) The bedrock dip away from the stream.

In view of the conclusions outlined above, this office will only require that you continue to monitor the site for any related problems that might possibly occur.

If problems do arise or additional site information is discovered, please contact this office for a re-assessment of the situation.

Your cooperation and openhanded approach regarding this matter was very helpful.

Should you have additional questions, please feel free to call (615) 624-9921.

Sincerely,

Steve Baxter

Steve Baxter
Environmental Consultant
Solid Waste Management

SB/ss

cc: Division of Solid Waste Management, Nashville, c/o Joe Walkup
cc: Hamilton County Health Department, c/o Dr. Frank Failing
cc: Southeast Regional Office, c/o Wayne Everett

Site No. TND 004934188

Reference No. 6

TENNESSEE DEPARTMENT OF PUBLIC HEALTH

OFFICE CORRESPONDENCE

DATE: June 19, 1981

TO: Files

FROM: Norman Travis

SUBJECT: Improper disposal of waste materials at Gilman paint in Chattanooga

The waste in question is described as being a caustic sludge derived from cleaning paint containers with sodium hydroxide. It contained between 75 and 95 percent water, and was allowed to dry for a period of one to two months before being covered. Three hundred drums of a 55 gallon capacity were dumped into trenches located under the present Gilman site. The waste material was additionally described as "probably consisting" of traces of mercury and titanium dioxide of unspecified concentration.

Exposure to the caustic sludge in the presence of moisture would be very corrosive to tissue (eyes, skin). The material is soluble in water and would tend to move as water flow dictated. Containment under the building and parking lots would be advantageous in regard to surface water seeping through to it. Titanium dioxide is noncombustible and non-toxic. In the absence of any definitive quantity or concentration, predicting an effect for ""traces of mercury" would be highly speculative.

The material has been buried for close to five years with no evidence of any leachate or related problems. Continued observation of the site should be maintained to preclude any future problem from arising.

N.T.

NT/ns/ 5-2

FROM	DATE
10	

Site No. TND 004934188

Reference No. 6

Site No. TND 004934188

Reference No. 7

Federal Superfund

FEDERAL SUPERFUND
343.38-11

REPORT OF SEDIMENT ANALYSES

Division of Water Quality Control NOV 14 1985 Tennessee Department of Public Health

SOURCE: Gilman Co. Inc., Chattanooga TN Mile

IDENTIFICATION: Grab soil, fenceline behind asphalt parking lot behind retail store

Field Number 3 duplicate Collected By WFH JEE Primary Station Number Date Collected 10/16/85

Time Collected 1620 Sample Depth (ft.) 3 feet Laboratory Number Swm 725B

All Results Reported on Dry Weight Basis

LEGAL

	Conc.	STORET No.	
Aluminum as Al Mg/Kg		01108	
Arsenic as As Mg/Kg		01003	
Barium as Ba Mg/Kg ✓	200	01008	
Boron as B Mg/Kg		01023	
Cadmium as Cd Mg/Kg		01028	
Chromium-total as Cr Mg/Kg ✓	35	01029	
Cobalt as Co Mg/Kg		01038	
Copper as Cu Mg/Kg ✓	270	01043	
Iron as Fe Mg/Kg		01170	
Lead as Pb Mg/Kg ✓	2850	01052	
Manganese as Mn Mg/Kg		01053	
Mercury-total as Hg Mg/Kg ✓	0.24	71921	
Nickel as Ni Mg/Kg ✓	17	01068	
Selenium as Se Mg/Kg		01148	
Silver as Ag Mg/Kg		01078	
Zinc as Zn Mg/Kg ✓	320	01093	
5-day B.O.D. 20° C Mg/Kg			
C.O.D. Mg/Kg			
Oxygen uptake Mg/Kg			
Chlorine Demand, 30 min. Mg/Kg			
Cyanide as CN Mg/Kg			
Nitrates as N Mg/Kg			
Ammonia as N Mg/Kg			
Kjeldahl Nitrogen as N Mg/Kg			
Phosphate as P Mg/Kg			
Phenols Mg/Kg			
Oil and Grease Mg/Kg			
Sulfide as S Mg/Kg			
Solids, per cent			
Volatile Solids, per cent			
Silica as SiO_2 Mg/Kg			

REMARKS total metals

PH-0548
WQC 12/79

Federal Superfund

343.38 11

REPORT OF SEDIMENT ANALYSES

Division of Water Quality Control — Tennessee Department of Public Health

NOV 14 1985

SOURCE: Gilman Co, Inc. Mile

IDENTIFICATION: Grab soil, collected at southern most point of parking lot edge along fence

Field Number 4 Collected By NFH Primary Station Number Date Collected 10/16/8

Time Collected 1637 EST Sample Depth (ft.) 4.5 Laboratory Number SWN 776B

All Results Reported on Dry Weight Basis

LEGAL

	Conc.	STORET No.	
Aluminum as Al Mg/Kg		01108	
Arsenic as As Mg/Kg		01003	
Barium as Ba Mg/Kg ✓	200	01008	
Boron as B Mg/Kg		01023	
Cadmium as Cd Mg/Kg		01028	
Chromium-total as Cr Mg/Kg ✓	65	01029	
Cobalt as Co Mg/Kg		01038	
Copper as Cu Mg/Kg ✓	2380	01043	
Iron as Fe Mg/Kg		01170	
Lead as Pb Mg/Kg ✓	13590	01052	
Manganese as Mn Mg/Kg		01053	
Mercury-total as Hg Mg/Kg ✓	2.34	71921	
Nickel as Ni Mg/Kg ✓	19	01068	
Selenium as Se Mg/Kg		01148	
Silver as Ag Mg/Kg		01078	
Zinc as Zn Mg/Kg ✓	980	01093	
5-day B.O.D. 20° C Mg/Kg			
C.O.D. Mg/Kg			
Oxygen uptake Mg/Kg			
Chlorine Demand, 30 min. Mg/Kg			
Cyanide as CN Mg/Kg			
Nitrates as N Mg/Kg			
Ammonia as N Mg/Kg			
Kjeldahl Nitrogen as N Mg/Kg			
Phosphate as P Mg/Kg			
Phenols Mg/Kg			
Oil and Grease Mg/Kg			
Sulfide as S Mg/Kg			
Solids, per cent			
Volatile Solids, per cent			
Silica as SiO_2 Mg/Kg			

REMARKS Total metals

PH-0548
WQC 12/79

FEDERAL SUPERFUND
343.38-11

REPORT OF SEDIMENT ANALYSES

Division of Water Quality Control — Tennessee Department of Public Health

NOV 14 1985

SOURCE: Gilman Co., Inc. Chattanooga TN Mile

IDENTIFICATION: fenceline behind asphalt parking lot behind retail store

Field Number 3 Collected By WFH JEE Primary Station Number Date Collected 10/16/85

Time Collected 1620 EST Sample Depth (ft.) 3 feet Laboratory Number SWM 774B

All Results Reported on Dry Weight Basis

LEGAL

	Conc.	STORET No.	
Aluminum as Al Mg/Kg		01108	
Arsenic as As Mg/Kg		01003	
Barium as Ba Mg/Kg ✓	160	01008	
Boron as B Mg/Kg		01023	
Cadmium as Cd Mg/Kg		01028	
Chromium-total as Cr Mg/Kg ✓	27	01029	
Cobalt as Co Mg/Kg		01038	
Copper as Cu Mg/Kg ✓	310	01043	
Iron as Fe Mg/Kg		01170	
Lead as Pb Mg/Kg ✓	2460	01052	
Manganese as Mn Mg/Kg		01053	
Mercury-total as Hg Mg/Kg ✓	0.18	71921	
Nickel as Ni Mg/Kg ✓	17	01068	
Selenium as Se Mg/Kg		01148	
Silver as Ag Mg/Kg		01078	
Zinc as Zn Mg/Kg ✓	340	01093	
5-day B.O.D. 20° C Mg/Kg			
C.O.D. Mg/Kg			
Oxygen uptake Mg/Kg			
Chlorine Demand, 30 min. Mg/Kg			
Cyanide as CN Mg/Kg			
Nitrates as N Mg/Kg			
Ammonia as N Mg/Kg			
Kjeldahl Nitrogen as N Mg/Kg			
Phosphate as P Mg/Kg			
Phenols Mg/Kg			
Oil and Grease Mg/Kg			
Sulfide as S Mg/Kg			
Solids, per cent			
Volatile Solids, per cent			
Silica as SiO_2 Mg/Kg			

REMARKS total metals

PH-0548
WQC 12/79

Federal Superfund — FEDERAL SUPERFUND
343.38-11

REPORT OF SEDIMENT ANALYSES

Division of Water Quality Control NOV 14 1985 Tennessee Department of Public Health

SOURCE: Gilman Co, Inc Mile

IDENTIFICATION: Grab soil from area along fence line south of asphalt parking lot

Field Number 2 Collected By JEE Primary Station Number Date Collected 10/16/85

Time Collected 1550 EST Sample Depth (ft.) 3.0 Laboratory Number SWM 223B

All Results Reported on Dry Weight Basis

LEGAL

		Conc.	STORET No.	
Aluminum as Al Mg/Kg			01108	
Arsenic as As Mg/Kg			01003	
Barium as Ba Mg/Kg	✓	100	01008	
Boron as B Mg/Kg			01023	
Cadmium as Cd Mg/Kg			01028	
Chromium-total as Cr Mg/Kg	✓	21	01029	
Cobalt as Co Mg/Kg			01038	
Copper as Cu Mg/Kg	✓	330	01043	
Iron as Fe Mg/Kg			01170	
Lead as Pb Mg/Kg	✓	1010	01052	
Manganese as Mn Mg/Kg			01053	
Mercury-total as Hg Mg/Kg	✓	0.10	71921	
Nickel as Ni Mg/Kg	✓	17	01068	
Selenium as Se Mg/Kg			01148	
Silver as Ag Mg/Kg			01078	
Zinc as Zn Mg/Kg	✓	144	01093	
5-day B.O.D. 20° C Mg/Kg				
C.O.D. Mg/Kg				
Oxygen uptake Mg/Kg				
Chlorine Demand, 30 min. Mg/Kg				
Cyanide as CN Mg/Kg				
Nitrates as N Mg/Kg				
Ammonia as N Mg/Kg				
Kjeldahl Nitrogen as N Mg/Kg				
Phosphate as P Mg/Kg				
Phenols Mg/Kg				
Oil and Grease Mg/Kg				
Sulfide as S Mg/Kg				
Solids, per cent				
Volatile Solids, per cent				
Silica as SiO_2 Mg/Kg				

REMARKS Total metals

PH-0548
WQC 12/79

Federal Superfund FEDERAL FUNDS

343.38-11

REPORT OF SEDIMENT ANALYSES

Division of Water Quality Control NOV 14 1985 Tennessee Department of Public Health

SOURCE: Gilman Co., Inc. Chattanooga TN Mile

IDENTIFICATION: Background, Grab soil 6' from SE corner of warehouse

Field Number 1 Collected By WEH JEE Primary Station Number Date Collected 10/16/8

Time Collected 1520 Sample Depth (~~ft.~~) 6" (inches) Laboratory Number SWM772B

All Results Reported on Dry Weight Basis

LEGAL

		Conc.	STORET No.	
Aluminum as Al Mg/Kg			01108	
Arsenic as As Mg/Kg			01003	
Barium as Ba Mg/Kg	✓	80	01008	
Boron as B Mg/Kg			01023	
Cadmium as Cd Mg/Kg			01028	
Chromium-total as Cr Mg/Kg	✓	24	01029	
Cobalt as Co Mg/Kg			01038	
Copper as Cu Mg/Kg	✓	230	01043	
Iron as Fe Mg/Kg			01170	
Lead as Pb Mg/Kg	✓	670	01052	
Manganese as Mn Mg/Kg			01053	
Mercury-total as Hg Mg/Kg	✓	<0.1	71921	
Nickel as Ni Mg/Kg	✓	26	01068	
Selenium as Se Mg/Kg			01148	
Silver as Ag Mg/Kg			01078	
Zinc as Zn Mg/Kg	✓	103	01093	
5-day B.O.D. 20° C Mg/Kg				
C.O.D. Mg/Kg				
Oxygen uptake Mg/Kg				
Chlorine Demand, 30 min. Mg/Kg				
Cyanide as CN Mg/Kg				
Nitrates as N Mg/Kg				
Ammonia as N Mg/Kg				
Kjeldahl Nitrogen as N Mg/Kg				
Phosphate as P Mg/Kg				
Phenols Mg/Kg				
Oil and Grease Mg/Kg				
Sulfide as S Mg/Kg				
Solids, per cent				
Volatile Solids, per cent				
Silica as SiO_2 Mg/Kg				

REMARKS total metals

Site No. TND

Reference No.

PH-0548
WQC 12/79

Site No. TND 004934188

Reference No. 8

State of Tennessee

DEPARTMENT OF CONSERVATION

DIVISION OF GEOLOGY

BULLETIN 58

PART I

GROUND-WATER RESOURCES OF EAST TENNESSEE

By

G. D. DeBUCHANANNE

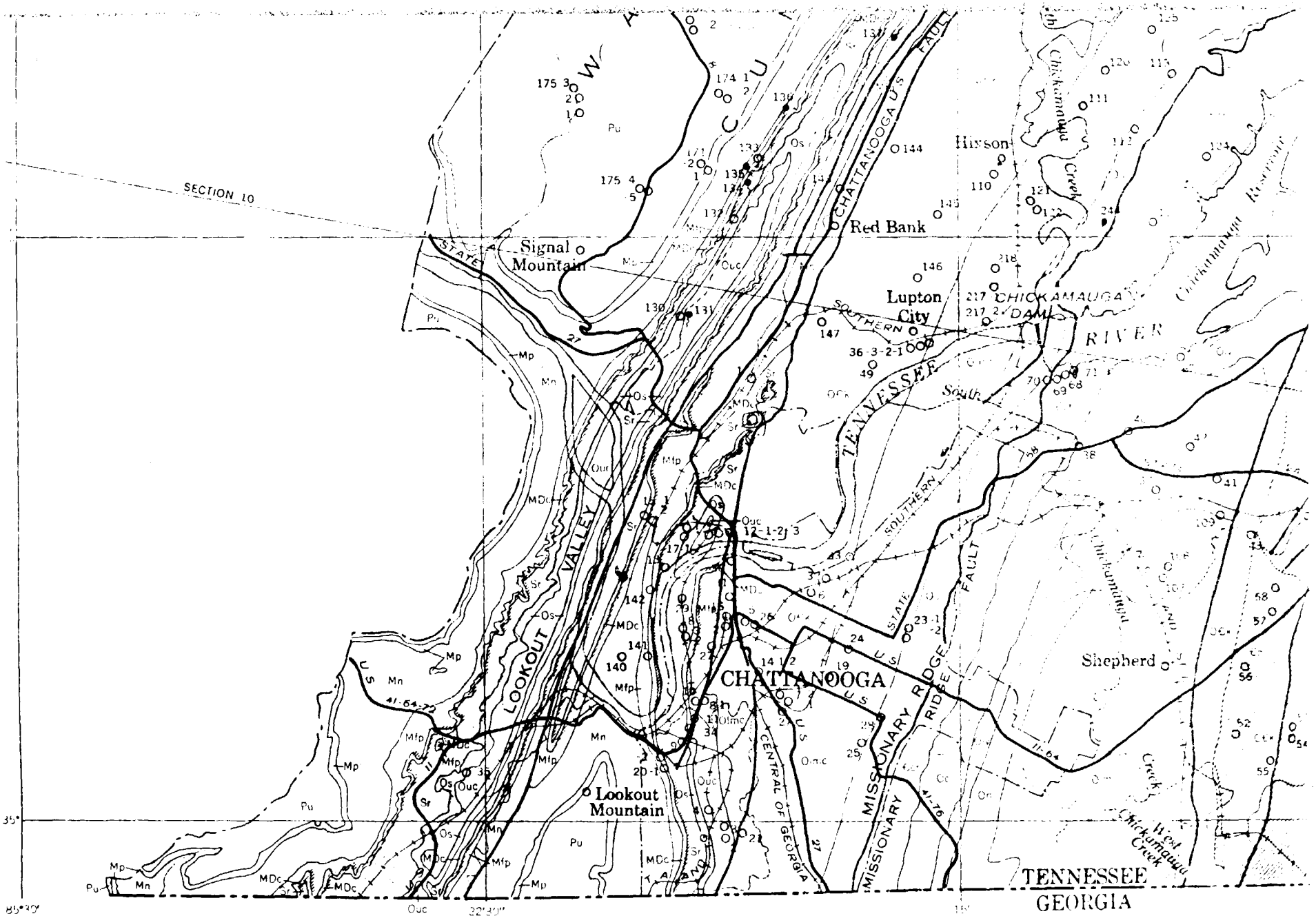
and

R. M. RICHARDSON

Prepared in cooperation with the U. S. Geological Survey

NASHVILLE, TENNESSEE

1956



Base compiled and materials assembled by C. H. Heins, G. D. DeBuchananne and R. M. Richardson of the U. S. Geological Survey

Maps prepared for printing by N. B. Johnson, C. E. James, J. B. Canter, and others of the U. S. Geological Survey

GEOLOGIC MAP OF EAST TENNESSEE: CHATTANOOGA SHOWING LOCATION OF WELLS AND SPRINGS

Scale $\frac{1}{125,000}$

1 0 5 10

Hamilton County

(Area 576 square miles, population 208,255)

General Features

Hamilton County is in the southwest corner of the area considered in this report. It is roughly rectangular, its maximum length being about 30 miles and its average width about 18 miles. It is bounded on the north by Rhea and Meigs Counties, on the east by Bradley County, on the south by Georgia, and on the west by Marion, Sequatchie, and Bledsoe Counties.

Chattanooga, the county seat and principal city, is in the southwestern part of the county on the Tennessee River, 100 miles southwest of Knoxville. It has a population of 131,041. Smaller towns are Sale Creek, Soddy, Birchwood, Hixson, Ooltewah, and Apison.

All rural communities are connected with Chattanooga by well-maintained paved or graveled roads. These include four paved U. S. highways. The county is served by four railroads—the Southern Railway System; the Nashville, Chattanooga & St. Louis Railway; the Central of Georgia Railway; and the Tennessee, Alabama & Georgia Railway. Daily passenger and mail service is available at Lovell Field, the municipal airport, 9 miles east of Chattanooga.

A large part of the population is supported by industrial employment, and most of the factories are in Chattanooga. Manufactured articles include foundry and machine-shop products, confectionery, furniture, mattresses and beds, hosiery and other knit goods, bakery products, patent medicines, lumber and other wood products, stoves and furnaces, enamelware, agricultural implements, boilers, and tile.

Mineral resources of the county include coal, iron ore, clay, limestone, sandstone, sand, gravel, bauxite, and manganese.

About 65 percent of the county is forested, and the part used for agriculture is planted chiefly in corn, hay, and wheat. Peaches and strawberries are shipped to northern markets; apples, cotton, and vegetables are other important cash crops.

Geology

The county is a part of two physiographic provinces—the Valley and Ridge and the Cumberland Plateau; about three-fourths of it is in the Valley and Ridge province and about one-fourth on the Cumberland Plateau. The topography of the Valley and Ridge province consists of alternating, parallel ridges and valleys that trend northeast. Much of the Cumberland Plateau, which borders the southwestern part of the Valley and Ridge province, is deeply dissected. Its general

elevation there is about 2,000 feet, which is about 1,000 feet above the adjoining ridges and valleys.

The entire county is underlain by sedimentary rocks consisting of limestone, dolomite, shale, and sandstone of Paleozoic age. Most of the part in the Valley and Ridge province is underlain by limestone and dolomite of the Knox group, although small areas are underlain by argillaceous limestone, noncalcareous shale, sandstone, interbedded sandstone and shale, and interbedded limestone and shale. In most places the rocks dip to the southeast.

Five well-defined minor physiographic belts cross the county in a northeast direction, parallel to the strike of the formations. Most of these belts are the result of severe folding and faulting of the formations and of subsequent differential weathering of the rocks.

The westernmost belt includes Walden Ridge, Lookout Mountain and Raccoon Mountain, all of which are part of the flat-topped Cumberland Plateau. The top of Walden Ridge is comparably flat, but the eastern edge is an escarpment dissected by narrow V-shaped valleys. Lookout Mountain and Raccoon Mountain are narrow and have broken irregular tops. The rocks which underlie these mountains are sandstone, shale, conglomerate and coal of Pennsylvanian age and the Pennington formation and Newman limestone of Mississippian age.

The second belt is the valley of the Tennessee River, which lies between Walden Ridge on the northwest and Whiteoak Mountain on the southeast. This area is underlain largely by formations of the Knox group of Cambrian and Ordovician age and the Chickamauga limestone of Middle Ordovician age.

The third belt, which lies east of and parallel to the valley of the Tennessee, consists of Whiteoak Mountain, a narrow but continuous ridge that rises about 600 feet above the adjacent valleys. Whiteoak Mountain is underlain chiefly by the Sequatchie formation of Ordovician age and the Rockwood formation of Silurian age.

The fourth belt is made up of a series of ridges and valleys southeast of and parallel to Whiteoak Mountain. The underlying rocks are chiefly the soft shale, sandy shale and limestone of the Conasauga group of Cambrian age.

Grindstone Mountain, the fifth physiographic unit, consists of less than 2 square miles and is between Whiteoak Mountain and the Hamilton-Bradley County line. The mountain is capped with flat-lying sandstone of Pennsylvanian age.

Ground Water

In the consolidated sedimentary rocks that underlie Hamilton County, ground water occurs only in fractures formed when the rocks

were folded and faulted. The original porosity of the sandstone and other clastic rocks has been destroyed by the deposition of silica and calcium carbonate. In the sandstone and shale that underlie the Cumberland Plateau the fractures are generally small and discontinuous; hence, the yield of wells drilled in these rocks is generally quite small, seldom exceeding a few gallons per minute.

Fractures in the limestone and dolomite which underlie large areas of the Valley and Ridge portion of the county have generally been enlarged by the solvent effect of percolating ground water. The yield of wells drilled in such rocks may be quite high. However, as the distribution of fractures in limestone and dolomite is quite erratic, it is impossible to determine, before drilling, what the yield of a well will be.

Analysis of records of wells drilled in the Chattanooga area and elsewhere in East Tennessee indicates that wells that yield 100 gpm or more are generally located near permanent surface streams. Although wells away from streams occasionally yield large quantities of water, such instances are by no means common.

The yields of wells drilled in shales, such as those of the Conasauga group, are generally low. However, where water-bearing cavities developed in limestone lenses in the shale are encountered, wells may yield up to 100 gpm.

The municipal water supply of Chattanooga is derived from the Tennessee River. Several utility districts on the outskirts of Chattanooga have developed springs. There are numerous springs, some of large size, in the parts of the county underlain by formations of the Knox group.

TABLE 35.—DISCHARGE MEASUREMENTS OF SELECTED SPRINGS IN HAMILTON COUNTY

Spring	Location	Date of measurement	Discharge (gpm)	Temperature (°F.)		Remarks
				Air	Water	
Anderson (no. 180–S)	5 miles southwest of Georgetown	4/15/31	4,640	74	58	Clear
		6/13/31	767	..	..	Do.
		11/ 2/31	458	62	58	Do.
		6/20/50	2,108	90	60	Do.
		7/18/50	1,608	85	59	Do.
		8/ 2/50	4,738	85	59	.....
		9/13/50	7,009	85	59	Clear
		10/17/50	1,894	71	59	.....
		11/15/50	1,883	48	58	.....
		12/20/50	3,736	33	57	.....
		1/19/51	4,792	55	58	.....
		2/15/51	4,974	49	58	.....
		3/13/51	6,183	38	58	.....
		4/17/51	5,756	46	59	.....
		5/16/51	2,345	75	59	.....
		6/20/51	1,936	73	60	.....

TABLE 35.—DISCHARGE MEASUREMENTS OF SELECTED SPRINGS IN HAMILTON COUNTY—Continued

Spring	Location	Date of measurement	Discharge (gpm)	Temperature (°F.)		Remarks
				Air	Water	
Blue	7 miles north of Harrison	4/15/31	3,200	72	58	Clear
		7/15/31	1,810	79	59	Do.
		11/ 2/31	1,650	55	58	Do.
Cave (no. 129–S)	4 miles southwest of Daisy	3/27/31	7,010	50	51	Clear
		7/18/31	328	74	56	Do.
		10/30/31	36	54	54	Do.
McCallie	3 miles west of Birchwood	4/15/31	1,170	70	58	Clear
		7/15/31	601	79	57	Do.
		11/ 2/31	408	57	59	Do.

The chemical quality of ground water in Hamilton County is generally quite good. The water usually requires no treatment, as far as chemical quality is concerned, for most uses. Analyses of representative samples of ground water from Hamilton County are given in table 37.

TABLE 36.—TYPICAL WELLS AND SPRINGS IN HAMILTON COUNTY

Shown on Plates 12 and 13

Method of lift: A, air lift; B, bucket; C, centrifugal; J, jet pump; L, lift pump; P, pitcher pump; T, turbine pump.
Use of water: Ab, abandoned; D, domestic; In, industrial; Ir, irrigation; P, public supply; S, stock

Well or spring No.	Location with reference to nearest post office	Owner or name	Driller	Topographic situation	Altitude (feet)	Depth of well (feet)	Length of casing (feet)	Diameter (inches)	Probable water-bearing beds: Character of material	Probable water-bearing beds: Geologic horizon	Depth to water level (feet)	Date of measurement	Method of lift	Yield (gallons per minute)	Temperature (°F.)	Use of water	Remarks
	CHATTA-NOOGA																
1	2112 Dayton Blvd.	Sanders' Dairy	H. L. Carlson	Valley	690	130	130	6	Limestone	Mfp	.....	.....	C	25	62	In	
2	4800 Central Ave.	Tenn. Products Corp.	E. O. Hembree	do.	680	200	200	6	do.	Ouc	14	.....	C	60	....	In	
3	4608 Kirkland Ave.	Lookout Oil & Refining Co.	O'Rear	do.	580	105	105	6	do.	Ouc	.....	.....	L	75	69	In	
4	4500 Highland Ave.	Chatt. Glass Co.	.....	Slope	710	285	285	6	do.	Os	30	.....	C	150	70	In	
5	1233 Market Street	Fisherman's Headquarters	Wm. Kittle	Valley	670	65	65	6	Dolomite	O€k	2	.....	C	28	68	In	Water sample analyzed.
6	241 Wiehl St.	Erlanger Hospital	do.	Slope	710	300	.....	8	do.	O€k	.....	.....	C	150	64	In	
7-1	Rossville Blv.	O. B. Andrews Co.	Grey Artesian Well Co.	Valley	660	383	.....	8	do.	O€k	.....	.....	C	294	61	In	
7-2	do.	do.	do.	do.	660	380	.....	8	do.	O€k	.....	.....	C	150	61	In	
8-1	27th & Broad St.	Combustion Engineering Co.	.....	do.	660	100	.....	6	Shale	Sr	25	.....	A	.....	65	In	
8-2	1032 W. Main	do.	.....	do.	660	398	398	8	do.	Sr	27	.....	C	160	64	In	Water used for air conditioning.
8-3	do.	do.	.....	do.	660	200	200	6	do.	Sr	27	.....	C	160	64	In	
9	Middle St.	J. H. Allison & Co.	.....	do.	660	105	.....	6	do.	Sr	36	.....	C	500	62	In	Well dug to 47.5 feet, drilled to 105.5 feet. Water sample analyzed.
10	2800 Broad S.	The Wheland Co.	Finton	do.	660	216	.....	6	do.	Sr	.....	.....	....	50	....	Ab	
11	3100 St. Elmo Ave.	Robert Schols Tannery	W. W. Renshaw	do.	660	100	.....	8	do.	Sr	.....	.....	C	350	62	In	
12-1	Maunfacturers' Rd.	Samuel Stamping & Enameling Co.	do.	do.	660	250	50	8	Limestone	Os	30	.....	C	10	62	In	
12-2	do.	do.	do.	do.	660	250	30	8	Shale	Sr	30	.....	C	25	62	In	Well tested with air lift for 8 hours at 40 gpm.
12-3	do.	do.	do.	do.	660	300	.....	8	do.	Sr	.....	.....	....	0	....	Ab	Dry hole.
13	do.	Somerville Iron Works	.....	do.	670	190	.....	6	do.	MDc	.....	.....	C	60	62	In	
14-1	1801 Rossville Blvd.	Chattanooga Sausage Co.	H. L. Carlson	do.	660	256	.....	8	Dolomite	O€k	3	.....	C	185	58	In	
14-2	White and William St.	do.	do.	Slope	670	350	.....	8	do.	O€k	75	.....	C	135	62	In	
15-1	Moccasin Bend Rd.	American Cyanamid Co.	Sullivan	do.	660	210	.....	12	Shale	Sr	7-8	.....	A	62	60	In	Reported drawdown of 4 feet after 1 hour pumping at 62 gpm.
15-2	do.	do.	.....	do.	660	250	.....	10	Shale	MDc	7-8	.....	C	250	60	In	Reported drawdown of 4 feet after 1 hour pumping at 62 gpm. Water sample analyzed.
16-1	1111 Chestnut St.	Brock Candy Co.	W. W. Renshaw	do.	670	300	.....	5	Limestone	Olmc	40	.....	A	55	63	In	Reported drawdown of 160 feet after 30 minutes pumping at 55 gpm.
16-2	do.	do.	do.	do.	670	310	.....	8	do.	Olmc	40	.....	C	55	63	In	Reported drawdown of 160 feet after 10 minutes pumping at 55 gpm.
17-1	Manufacturers' Rd.	Tenn. Paper Mills	.....	do.	660	170	.....	16	Shale	Sr	.....	.....	C	600	60	In	Yields about 600 gpm for 8 hours. After this time quantity declines appreciably. Recovers in about 24 hours.
17-2	do.	do.	.....	do.	660	237	.....	10	do.	Sr	37	7/48	....	.....	....	Ab	Well too crooked to permit setting pump.
18	1601 Carter St.	Ross-Meehan Foundries	Wm. Kittle	do.	670	190	110	6	do.	Sr	30	.....	C	100	56	In	Water used for air conditioning.
19	E. 14th St.	Tenn. Stove Co.	E. O. Hembree	do.	670	300	30	8	Limestone	Olmc	.....	.....	C	50	60	Ab	Well abandoned as water was muddy.

TABLE 36.—TYPICAL WELLS AND SPRINGS IN HAMILTON COUNTY—Continued

Well or spring No.	Location with reference to nearest post office	Owner or name	Driller	Topographic situation	Altitude (feet)	Depth of well (feet)	Length of casing (feet)	Diameter (inches)	Probable water-bearing beds: Character of material	Probable water-bearing beds: Geologic horizon	Depth to water level (feet)	Date of measurement	Method of lift	Yield (gallons per minute)	Temperature (°F.)	Use of water	Remarks
20-1	1715 W. 38th St.	Chattanooga Medicine Co.	H. L. Carlson	Slope	720	410	.....	8	Limestone	Mn	60	.....	C	225	62	In	Water sample analyzed.
20-2	do.	do.	.....	do.	730	260	.....	6	do.	Mn	60	.....	C	100	58	In	
21	Hooker Rd.	Wilson & Co.	H. L. Carlson	do.	670	400	.....	10	do.	Olmc	.....	.....	C	.....	.....	Ab	Well pumps dry in 13 minutes when pumped at 63 gpm.
22	3744 Brainerd Rd.	Kay's Ice Cream Co.	do.	do.	720	120	.....	8	Dolomite	Olv	.....	.....	C	43	58	In	
23-1	460 Dodson	Chatt. Area Milk	do.	Valley	675	410	.....	8	do.	Olmc	4	.....	C	40	56	In	Water sample anzlyzed.
23-2	do.	do.	do.	do.	675	250	.....	8	do.	Olmc	4	.....	.....	.....	.....	Ab	
24	1506 McCallie Ave.	Liggetts' Ice Cream Co.	E. O. Hembree	Slope	690	402	.....	8	do.	Olmc	30	.....	C	20	57	In	Well yielded 50 gpm prior to 1947.
25	2232 E. 23rd St.	Associated Dairies	.....	Valley	665	80	40	6	do.	Olmc	75	.....	C	15	56	In	
26	234 E. 11th	Tops Chewing Gum, Inc.	.....	Slope	690	200	.....	8	do.	O-Ck	.....	.....	C	25	.....	In	
27	2341 Rossville Blvd.	United-Morning Star Dairies	E. O. Hembree	do.	640	275	40	6	do.	Olmc	33	.....	C	60	58	In	
28	2416 E. Main St.	Chattanooga Ice Delivery Co.	J. O. Keele	Valley	670	613	.....	8	do.	Olmc	50	.....	.....	60	58	Ab	No appreciable quantity of water encountered below 50 feet.
29	1021 Cross St.	W. S. Dickey Clay Mfg. Co.	.....	Slope	655	300	.....	6	Shale	Sr	20	.....	A	80	58	In	
30	100 W. 1st St.	Sherman & Riley, Inc.	.....	do.	650	205	30	6	Dolomite	Olmc	35	.....	J	20	58	In	
31	709 Broad St.	Tivoli Theatre	E. O. Hembree	do.	680	390	.....	6	do.	Olmc	40	.....	C	75	60	In	Water used for air conditioning.
32	Riverside Dr.	Cumberland Case Co.	W. W. Renshaw	do.	680	230	.....	8	do.	O-Ck	30	.....	C	50	58	In	
33	do.	Mohawk Rubber Co.	E. O. Hembree	do.	646	302	45	8	do.	O-Ck	20	4/45	.....	180	60	Ab	Test well.
34	St. Elmo Ave.	King Provision Co.	.....	Valley	660	150	.....	6	Shale	Sr	.....	.....	.....	50	.....	Ab	Well abandoned as water was muddy.
	LOOKOUT MTN.																
35	2 mi. W.	Farmfield Dairy	Hale	Slope	660	65	20	6	Limestone	Os	.....	.....	J	8	58	S	
	LUPTON CITY																
36-1	In town	Dixie Mercerizing Co.	Wm. Kittle	Valley	680	101	90	8	Dolomite	O-Ck	35	.....	C	150	58	In	
36-2	do.	do.	W.W.Renshaw	do.	680	90	90	8	do.	O-Ck	35	.....	C	190	58	In	
36-3	do.	do.	Wm. Kittle	do.	680	133	.....	8	do.	O-Ck	35	.....	C	150	58	In	
	TYNER																
37	2½ mi. W.	Ray Moss Farms	do.	do.	715	167	50	8	do.	On	50	.....	J	10	62	S	
	LUPTON CITY																
38	3 mi. SE.	Sterchi & Sons Dairy	do.	Slope	680	105	100	6	do.	Oc	40	.....	C	35	62	In	Well originally yielded 65 gpm.
	HARRISON																
39	2½ mi. NE.	I. W. Champion	E. O. Hembree	do.	820	55	55	6	do.	O-Ck	5	.....	J	5	65	D,S	
	TYNER																
40	3 mi. W.	Fred Sterchi, Sr.	W.W.Renshaw	do.	800	285	.....	8	do.	Oc	.....	.....	L	.....	65	D,S	
41	2 mi. W.	Bonny Oaks School	.....	do.	720	200	100	6	do.	On	40	.....	C	50	60	P	Water sample analyzed.
42	2 mi. NW.	W. S. Keese	.....	Valley	710	67	67	60	do.	On	60	.....	J	5	58	D,S	
43	1 mi. SW.	J. H. Reed	T. V. Wooten	Slope	710	110	.....	6	do.	O-Ck	100	.....	J	5	58	D	

TABLE 36.—TYPICAL WELLS AND SPRINGS IN HAMILTON COUNTY—Continued

Well or spring No.	Location with reference to nearest post office	Owner or name	Driller	Topographic situation	Altitude (feet)	Depth of well (feet)	Length of casing (feet)	Diameter (inches)	Probable water-bearing beds: Character of material	Probable water-bearing beds: Geologic horizon	Depth of water level (feet)	Date of measurement	Method of lift	Yield (gallons per minute)	Temperature (°F.)	Use of water	Remarks
	OOLTEWAH																
44	1 mi. NE.	W. L. Hall	.....	Valley	800	800	.....	6	Limestone	Och4	20	.....	J	5	58	D	Well drilled for Atlas Powder Co. Tested with air lift for 24 hours at 180 gpm.
45	1 mi. N.	W. G. Fitzgerald	Ed Wooten	Hilltop	800	76	.....	6	do.	Olmc	21	.....	B	.....	....	D	
	TYNER																
46	1½ mi. SE.	Hamilton County Hospital	.....	do.	770	360	.....	8	Shale	Ꞓc	.....	.....	C	50	60	P	Water from well contains small amount of fine quartz sand. Water sample analyzed.
	OOLTEWAH																
47	2 mi. N.	Wyla Wilson	Wm. Kittle	Valley	765	76	.....	6	Limestone	Olmc	18	.....	B	.....	....	D	Supplies three families.
	COLLEGE-DALE																
48	In town	Sou. Jr. College	do.	Slope	850	150	.....	8	do.	Mfp	0	7/48	C	100	58	Ab	Well will pump 100 gpm for 8 hours, then requires 3 days for recovery. Water sample analyzed.
	LUPTON CITY																
49	1½ mi. SW.	Meadowlake Country Club	.....	do.	700	96	.....	6	Dolomite	O Ꞓk	.....	.....	C	70	60	P	Water sample analyzed.
	DAISY																
50-1	In town	Kingsborro Silk Mills	.....	Valley	700	186	.....	6	Limestone	Mn	2	.....	C	110	58	In	
50-2	do.	do.	.....	do.	700	92	.....	6	do.	Mn	25	.....	C	110	60	In	
50-3	do.	do.	E. O. Hembree	do.	700	72	.....	6	do.	Mn	30	.....	C	55	60	In	
51-1	do.	B. Mifflin Hood Co.	.....	do.	700	1,390	.....	6	do.	Mn	150	.....	A	25	58	In	Oil test.
51-2	do.	do.	.....	do.	700	65	65	6	do.	Mn	15	.....	C	25	58	In	Yield fluctuates seasonally.
51-3	do.	do.	.....	do.	700	100	.....	8	do.	Mn	30	.....	C	25	....	In	do.
	SHEPHERD																
52	1½ mi. SE.	T. Jones	.....	Slope	685	33	33	24	Shale	Ꞓc	31	7/48	B	.....	....	Ab	Well goes dry in summer.
53	2 mi. SE.	Mrs. H. H. Walters	.....	Valley	700	52	52	6	do.	Ꞓc	10	.....	L	.....	58	D	
54	do.	Martin Cordley	.....	do.	700	16	16	24	do.	Ꞓc	12	7/48	L	.....	58	In	Well supplies water for fish rearing ponds.
55	2½ mi. SE.	Dennis Martin	.....	Ridge	880	400	.....	6	Dolomite	O Ꞓk	.....	.....	....	0	....	Ab	Dry hole.
56	1 mi. E.	Bruce Saunderback	.....	Slope	720	53	53	36	Shale	Ꞓc	48	7/48	L	.....	60	Ab	
	TYNER																
57	1½ mi. SW.	S. R. Underwood	.....	Valley	715	79	.....	6	do.	Ꞓc	40	.....	....	.....	....	Ab	
58	do.	W. J. Bell	.....	Hilltop	700	68	.....	6	do.	Ꞓc	26	7/48	....	.....	....	Ab	
59	2 mi. SE.	Howard May	.....	Valley	750	85	.....	6	do.	Ꞓc	.....	.....	L	10	60	S	
60-S	2½ mi. SE.	John R. Graham	.....	do.	760	.....	.....	....	do.	Ꞓc	.....	.....	....	10	61	D,S	
61	do.	E. L. Parton	Ed Wooten	do.	770	38	.....	5	do.	Ꞓc	9	7/48	....	.....	....	Ab	
	SHEPHERD																
62	3 mi. SE.	Frank Gray	.....	Ridge	745	45	.....	6	do.	Ꞓc	27	7/48	B	.....	61	D	
63	4½ mi. SE.	A. J. Ervine	.....	Slope	745	23	22	36	do.	Ꞓc	17	7/48	....	.....	....	Ab	
64	4 mi. SE.	G. O. White	.....	do.	750	42	.....	6	do.	Ꞓc	18	7/48	B	.....	62	D	
	TYNER																
65	1 mi. E.	J. Standifer	.....	Valley	760	16	16	24	do.	Ꞓc	15	7/48	L	.....	62	Ab	
66	2 mi. E.	Mrs. J. M. Moore	.....	Hilltop	790	125	.....	6	do.	Ꞓc	69	7/48	B	.....	....	D,S	
67	3 mi. NW.	TVA	.....	Slope	700	57	.....	36	Dolomite	Oc	31	7/48	....	.....	....	Ab	
	LUPTON CITY																
68	3 mi. E.	do.	.....	Hilltop	740	45	.....	4	do.	Ꞓcr	40	7/48	....	.....	....	Ab	
69	do.	do.	.....	do.	740	62	.....	4	do.	Ꞓcr	45	7/48	....	.....	....	Ab	

TABLE 36.—TYPICAL WELLS AND SPRINGS IN HAMILTON COUNTY—Continued

Well or spring No.	Location with reference to nearest post office	Owner or name	Driller	Topographic situation	Altitude (feet)	Depth of well (feet)	Length of casing (feet)	Diameter (inches)	Probable water-bearing beds: Character of material	Probable water-bearing beds: Geologic horizon	Depth of water level (feet)	Date of measurement	Method of lift	Yield (gallons per minute)	Temperature (°F.)	Use of water	Remarks
70	3 mi. E.	TVA	.....	Hilltop	745	50	.....	4	Dolomite	Ꞓcr	48	7/48	....	.....	....	Ab	
71	do.	do.	.....	do.	740	204	.....	4	do.	Ꞓcr	41	7/48	....	.....	....	Ab	
	HARRISON																
72	1 mi. NW.	J. Wolensky	.....	Slope	740	115	.....	6	do.	Oc	40	.....	L	10	62	D	
	TYNER																
73	3½ mi. SE.	C. S. Holder	.....	do.	760	22	10	24	do.	O-Ꞓk	3	7/48	B	.....	62	D	
	OOLTEWAH																
74	2 mi. NW.	G. R. Wilson	.....	do.	740	41	40	36	do.	O-Ꞓk	33	7/48	B	.....	63	D	Goes dry in summer.
75	do.	John Clark	.....	do.	740	160	.....	6	do.	O-Ꞓk	20	.....	L	10	....	D	
	TYNER																
76	½ mi. SW.	S. F. Johnson	.....	do.	725	46	45	36	Shale	Ꞓc	33	7/48	B	.....	....	D	
	OOLTEWAH																
77	2 mi. W.	J. McGill	.....	do.	910	24	24	48	Dolomite	Ocn	20	8/48	B	.....	62	D	
78	1 mi. SW.	T. M. Wrinkle	.....	do.	830	43	.....	36	do.	Ocn	21	8/48	....	.....	....	Ab	
	COLLEGE-DALE																
79	1½ mi. SW.	Tom Mostert	Ed Wooten	Valley	810	83	20	6	Limestone	Och4	27	8/48	B	.....	62	D	
80	2 mi. SW.	C. S. Howard	.....	do.	840	56	.....	6	do.	Olmc	25	8/48	B	.....	63	D	
81	3½ mi. SW.	T. L. Boyd	.....	do.	790	37	.....	36	do.	Olmc	28	8/48	B	.....	62	D	
82	1 mi. W.	Fred Robinson	.....	do.	880	60	.....	6	do.	Olmc	30	.....	L	10	....	D,S	
83	1½ mi. S.	W. L. White	.....	Hilltop	960	84	.....	48	do.	Mn	60	.....	L	10	63	D,S	
84	2½ mi. S.	E. R. Stafford	.....	do.	940	49	.....	36	do.	Mfp	45	.....	L	.....	62	D	
85	1 mi. E.	Ed Chestnut	.....	Valley	820	33	.....	36	do.	Mfp	19	8/48	B	.....	63	D	
	APISON																
86	½ mi. N.	T. L. Poe	.....	do.	870	33	.....	....	Shale	Ꞓra	25	.....	L	.....	63	D	
	OOLTEWAH																
87	2 mi. W.	E. L. Fox	Pat Carlson	Hilltop	1,000	250	.....	6	Dolomite	Ocn	45	.....	L	.....	63	P	Supplies four houses.
88	1 mi. NW.	B. H. Simms	.....	Slope	830	48	.....	48	do.	Ocn	37	8/48	B	.....	63	D	
89	1½ mi. NW.	John Harris	.....	do.	850	35	.....	36	do.	Ocn	4	8/48	B	.....	62	D,S	
90	3 mi. N.	Fairview Baptist Church	.....	do.	810	60	.....	6	do.	O-Ꞓk	30	.....	L	.....	63	P	
91	2½ mi. N.	J Plotz	H. L. Carlson	Hilltop	800	68	.....	8	do.	O-Ꞓk	38	.....	L	.....	61	D,S	
92-S	do.	F. Raper	.....	Valley	700	.....	.....	....	do.	O-Ꞓk	.....	.....	....	150	61	S	
93	do.	E. E. Ramsey	.....	do.	775	70	.....	8	Limestone	Olmc	6	8/48	B	.....	62	D	Well reported to flow in wet weather.
94	3 mi. N.	Harmon Moon	Ed Wooten	do.	770	47	.....	6	do.	Olmc	20	.....	C	10	61	D	
95	In town	Mrs. Lance Poe	do.	do.	770	72	.....	6	do.	Olmc	10	.....	J	10	....	Ab	Well formerly supplied five houses and two filling stations.
	APISON																
96	4 mi. SW.	Hooke Parten	.....	Slope	800	310	.....	6	do.	Or	.....	.....	....	.....	....	Ab	Dry hole.
97	do.	H. B. Parten	.....	do.	810	200	.....	6	do.	Or	.....	.....	....	.....	....	Ab	Do.
98-S	do.	Hoke Parten	.....	do.	800	.....	.....	....	Shale	Or	.....	.....	....	25	61	D,S	
99-S	do.	James Stone	.....	Valley	780	.....	.....	....	Limestone	Olmc	.....	.....	....	500	61	S	
	COLLEGE-DALE																
100-1	4 mi. SW.	L. A. Banks	.....	Hilltop	1,000	410	.....	6	Dolomite	Ocn	.....	.....	....	.....	....	Ab	Do.
100-2	do.	do.	.....	Slope	900	200	.....	6	do.	Ocn	.....	.....	L	.....	....	D,S	
101	5 mi. SW.	V. Caylor	.....	Valley	710	25	.....	36	do.	Ꞓcr	12	8/48	B	.....	63	D	
102	3½ mi. SW.	Howard Miller	.....	do.	840	50	50	24	do.	Ocn	34	8/48	B	.....	63	D	
103	do.	Mrs. R. C. Hall	Wm. Kittle	Slope	880	106	.....	6	do.	Ocn	95	8/48	....	.....	....	Ab	Do.
104	½ mi. NW.	James Hickman	do.	do.	820	62	.....	8	Shale	Sr	1	8/48	....	.....	62	Ab	
105	1 mi. N.	J. W. Watkins	.....	do.	860	20	.....	36	Limestone	Mn	8	8/48	B	.....	63	D	
106	do.	Earl Taylor	O'Neal	do.	900	66	30	8	do.	Mfp	23	8/48	B	.....	63	D	
	SHEPHERD																
107-S	1½ mi. N.	Quentes Shepherd	.....	do.	640	.....	.....	....	do.	Olmc	.....	.....	C	600	64	Ir	
108	do.	do.	.....	Valley	660	50	.....	....	do.	Olmc	20	.....	C	20	....	D,S	

TABLE 36.—TYPICAL WELLS AND SPRINGS IN HAMILTON COUNTY—Continued

Well or spring No.	Location with reference to nearest post office	Owner or name	Driller	Topographic situation	Altitude (feet)	Depth of well (feet)	Length of casing (feet)	Diameter (inches)	Probable water-bearing beds: Character of material	Probable water-bearing beds: Geologic horizon	Depth of water level (feet)	Date of measurement	Method of lift	Yield (gallons per minute)	Temperature (°F.)	Use of water	Remarks
	TYNER																
109	1½ mi. W.	Ray Moss	.....	Valley	700	34	.....	36	Limestone	Olmc	29	8/48	B	.....	63	D	
	HIXSON																
110	½ mi. SW.	H. J. Hatfield	.....	do.	680	44	.....	36	Dolomite	O€k	20	8/48	...	.....	...	Ab	
111	1½ mi. NE.	W. V. Lee	W.W.Renshaw	Slope	700	120	.....	8	Limestone	Olmc	25	.....	L	.....	63	D	
112	2 mi. E.	A. C. Parker	.....	Valley	695	91	.....	6	do.	Olmc	12	8/48	...	.....	...	Ab	
113	2½ mi. NE.	J. A. Shelby	.....	do.	730	52	.....	6	do.	Olmc	25	8/48	B	.....	63	D	
114	4½ mi. NE.	O. A. Young	.....	Slope	740	78	.....	6	do.	Olmc	25	.....	J	.....	62	D	
115-S	do.	Mrs. J. H. Roberson	.....	do.	715	.....	.....	...	do.	Olmc	.....	.....	...	15	61	S	
	DAISY																
116	3½ mi. SE.	Fred May	.....	Valley	700	27	.....	6	do.	Olmc	18	8/48	...	.....	...	Ab	
117	3 mi. SE.	Margaret Thompson	.....	do.	690	31	.....	36	Dolomite	O€k	12	8/48	B	.....	62	D	
118	3½ mi. SE.	Clyde Miller	.....	do.	720	117	.....	8	do.	O€k	14	8/48	...	.....	...	Ab	
119	4 mi. S.	George Rawlston	.....	do.	690	57	.....	4	do.	O€k	19	8/48	...	.....	...	Ab	
	HIXSON																
120	2 mi. NE.	Annie C. Smith	.....	do.	685	95	.....	6	Limestone	Olmc	17	8/48	...	.....	...	Ab	
121	1 mi. S.	W. M. Harrison	.....	Hilltop	680	63	.....	6	do.	Olmc	43	.....	L	.....	62	Ab	
122	do.	S. B. Walker	W.W.Renshaw	Valley	665	216	60	8	do.	Olmc	110	8/48	...	.....	...	Ab	Dry hole.
123	2 mi. SE.	Mrs. C.Lunsford	.....	Slope	850	41	.....	36	Dolomite	€cr	23	8/48	B	.....	62	D	Goes dry occasionally.
124	3 mi. E.	L. W. Varner	.....	do.	780	59	.....	36	do.	€cr	28	8/48	B	.....	63	D	Do.
125	3 mi. NE.	Mrs. E. Hixson	.....	Valley	680	160	.....	6	Limestone	Olmc	2	.....	L	10	61	D,S	
126	3 mi. N.	Camp Tsatanagi	.....	Slope	740	125	.....	6	Dolomite	O€k	30	.....	L	.....	...	P	
127	do.	D. B. Harrel	.....	do.	730	123	.....	6	do.	O€k	68	.....	L	.....	...	D	Supplies two houses.
	DAISY																
128	3 mi. SW.	O. L. Fitch	.....	Valley	680	39	.....	6	Limestone	Mn	12	8/48	...	.....	...	Ab	
129-S	4 mi. SW.	Cave Spring	.....	do.	700	.....	.....	...	do.	Mn	.....	.....	...	5,000	61	...	
	SIGNAL MOUNTAIN																
130	1½ mi. SE.	Mrs. T. J. Rogers	.....	do.	660	25	.....	36	do.	Os	21	8/48	...	.....	...	Ab	
131-S	do.	do.	.....	do.	650	.....	.....	...	do.	Ouc	.....	.....	...	100	60	S	
	RED BANK																
132	1½ mi. W.	Coke Bowman	.....	do.	760	100	.....	6	Shale	MDc	.....	.....	L	30	61	D,S	
133	1½ mi. NW.	W. B. Johnston	.....	do.	860	50	.....	6	Limestone	Mfp	20	.....	J	10	61	D,S	
134-S	do.	Morrison Spring	.....	do.	720	.....	.....	...	Shale	MDc	.....	.....	...	500	60	S	
135-S	do.	Read Spring	.....	do.	800	.....	.....	...	Limestone	Mn	.....	.....	...	1,000	60	S	
	SIGNAL MOUNTAIN																
136-S	3½ mi. NE.	G. F. Combs	.....	do.	840	.....	.....	...	do.	Mn	.....	.....	...	20	60	D	
	HIXSON																
137-S	2½ mi. NW.	Vandergriff Spring	.....	do.	770	.....	.....	...	do.	Mfp	.....	.....	...	20	...	D,S	
	DAISY																
138	3 mi. SW.	Ernest Summers	.....	do.	690	90	.....	8	do.	Mfp	.....	.....	L	.....	...	Ab	
139	2½ mi. SW.	Burl Neely	.....	do.	718	54	.....	36	do.	Mn	18	8/48	B	.....	61	D	
	CHATTANOOGA																
140	2 mi. SW.	Radio Station WDEF	.....	Slope	660	100	.....	6	do.	Mn	.....	.....	L	.....	...	D	Water sample analyzed.
141	1½ mi. SW.	J. M. Pearson	.....	Ridge	700	99	.....	6	do.	Mfp	75	.....	L	.....	...	D	
142	1½ mi. W.	Olva M. Lane	.....	Slope	670	21	.....	36	do.	Mfp	13	8/48	L	.....	62	D	
	RED BANK																
143	½ mi. N.	James B. Jones	.....	Valley	780	40	.....	36	do.	Mfp	20	.....	L	.....	...	Ab	
144	1½ mi. NE.	Anne E. Ford	E. O. Hembree	Hilltop	980	112	.....	6	Dolomite	O€k	75	.....	L	.....	63	D	
145	1½ mi. E.	N. M. Wyatt	.....	Valley	760	42	.....	36	do.	O€k	21	8/48	B	.....	...	Ab	

TABLE 36.—TYPICAL WELLS AND SPRINGS IN HAMILTON COUNTY—Continued

Well or spring No.	Location with reference to nearest post office	Owner or name	Driller	Topographic situation	Altitude (feet)	Depth of well (feet)	Length of casing (feet)	Diameter (inches)	Probable water-bearing beds: Character of material	Probable water-bearing beds: Geologic horizon	Depth to water level (feet)	Date of measurement	Method of lift	Yield (gallons per minute)	Temperature (°F.)	Use of water	Remarks
	LUPTON CITY																
146	1 mi. N.	C. W. Miller	.....	Valley	740	25	.....	36	Dolomite	O€k	12	8/48	B	.....	.....	Ab	
	RED BANK																
147	1½ mi. S.	Mrs. F. A. Lindsey	.....	Slope	790	8	8	30	do.	O€k	2	8/48	.....	.....	63	Ab	
	DAISY																
148	2½ mi. SE.	W. H. Young	.....	Valley	800	29	.....	48	do.	O€k	19	8/48	B	.....	62	D	
149	1½ mi. SE.	Bill Ridley	.....	Ridge	860	37	.....	70	do.	O€k	16	8/48	.....	.....	.....	Ab	
150	2½ mi. SE.	Jim Isam	.....	Valley	760	30	.....	72	do.	O€k	13	8/48	B	.....	.....	S	
151	2 mi. E.	R. B. Gothard	.....	do.	815	35	.....	48	do.	O€k	16	8/48	B	.....	62	D,S	
152	3 mi. E.	E. J. Gann	.....	Ridge	800	28	.....	48	do.	O€k	9	8/48	B	.....	63	D	
153	2 mi. S.	C. W. Walker	.....	do.	740	20	.....	60	do.	O€k	8	8/48	.....	.....	.....	Ab	
	SODDY																
154	In town	J. C. Owens	.....	Valley	820	50	.....	36	do.	O€k	26	8/48	B	.....	.....	Ab	
155	do.	T. H. Dodd	.....	Slope	900	48	.....	48	do.	O€k	16	8/48	B	.....	63	D,S	
	HIXSON																
156	3 mi. N.	W. P. Selcer	.....	do.	720	51	.....	36	Limestone	Mn	28	8/48	B	.....	62	D	
	DAISY																
157	3 mi. SW.	Earl Dunlap	.....	Valley	700	50	.....	48	do.	Mn	40	8/48	B	.....	.....	D	
158	1½ mi. SW.	J. C. Hilliard	.....	Slope	720	51	.....	48	do.	Mn	41	8/48	.....	.....	.....	Ab	Well reported to go dry in summer.
159	do.	S. J. Morton	.....	Hilltop	720	68	.....	48	do.	Mn	55	8/48	L	.....	61	P	Well supplies five houses.
160	2 mi. SW.	Southern Railway	.....	Valley	700	100	.....	.....	Dolomite	O€k	.....	.....	L	55	.....	In	
	SODDY																
161	2 mi. SE.	Lon Gann	.....	do.	720	27	.....	48	do.	O€k	17	8/48	B	.....	62	D	
162	In town	Sam Parton	.....	do.	720	22	.....	36	do.	O€k	17	8/48	B	.....	62	D	
163	do.	Soddy Junior High School	.....	do.	720	250	.....	8	do.	O€k	.....	.....	C	50	.....	Ab	
164	do.	George Dyke	.....	do.	770	51	.....	30	Limestone	Os	10	8/48	.....	.....	.....	Ab	
165	do.	Soddy-Daisy High School	.....	do.	860	200	.....	8	Dolomite	O€k	.....	.....	.....	.....	.....	Ab	
166-S	½ mi. E.	Wallace Spring	.....	do.	675	.....	.....	.....	do.	O€k	.....	.....	.....	2,000	.....	.....	Spring covered by Chickamauga Reservoir except at very low stages.
167	3 mi. NE.	W. C. Coleman	.....	do.	760	36	.....	36	do.	O€k	9	8/48	B	.....	62	D	
168	2 mi. E.	Frank Bennett	.....	do.	780	38	.....	75	do.	O€k	10	8/48	L	.....	63	D,S	Well reported to go dry every 4 or 5 years.
169	2 mi. N.	John Lynch	.....	do.	770	30	.....	24	do.	O€k	15	8/48	B	.....	63	S	
170	3 mi. NE.	Martha Coleman	.....	Ridge	790	43	.....	72	do.	O€k	16	8/48	B	.....	.....	D	Well reported to flow in winter.
	SIGNAL MOUNTAIN																
171-1	2 mi. NE.	Foster Hampton	.....	Plateau	1,860	38	.....	36	Sandstone	Mp	25	8/48	B	.....	.....	D	
171-2	do.	do.	Marshal Ruth	do.	1,840	122	.....	6	do.	Pu	30	.....	J	.....	.....	D	
172-1	3½ mi. NE.	Howard Richardson	.....	do.	2,050	61	.....	6	do.	Pu	7	8/48	B	.....	.....	D,S	
172-2	do.	do.	.....	do.	2,050	47	.....	6	do.	Pu	4	8/48	B	.....	.....	D,S	
173	4 mi. N.	N. A. Welch	Evans Bros.	do.	2,030	87	30	6	do.	Pu	34	8/48	B	.....	.....	D	
174-1	3 mi. NE.	A. D. Miles	.....	Ridge	1,940	40	7	6	do.	Pu	20	8/48	B	.....	.....	D	
174-2	do.	do.	.....	do.	1,960	81	14	6	do.	Pu	25	8/48	.....	.....	.....	D	
175-1	2 mi. N.	Mountain Land Co.	.....	Plateau	1,620	275	.....	8	do.	Pu	.....	.....	.....	.....	.....	Ab	Wells 175-1 through 5 were formerly used by Town of Signal Mountain for public supply. Drought of 1925 caused abandonment of wells.
175-2	do.	do.	.....	do.	1,640	275	.....	8	do.	Pu	.....	.....	.....	.....	.....	Ab	
175-3	do.	do.	.....	do.	1,660	275	.....	8	do.	Pu	5	8/48	.....	.....	.....	Ab	
175-4	1 mi. NE.	do.	.....	do.	1,960	275	.....	8	do.	Pu	.....	.....	.....	.....	.....	Ab	
175-5	do.	do.	.....	do.	1,920	275	.....	8	do.	Pu	.....	.....	.....	.....	.....	Ab	

TABLE 36.—TYPICAL WELLS AND SPRINGS IN HAMILTON COUNTY—Continued

Well or spring No.	Location with reference to nearest post office	Owner or name	Driller	Topographic situation	Altitude (feet)	Depth of well (feet)	Length of casing (feet)	Diameter (inches)	Probable water-bearing beds: Character of material	Probable water-bearing beds: Geologic horizon	Depth to water level (feet)	Date of measurement	Method of lift	Yield (gallons per minute)	Temperature (°F.)	Use of water	Remarks
	HARRISON																
176-1	4½ mi. NE.	Charles Wooden	W.W.Renshaw	Slope	720	135	.....	6	Shale	Ꞓc	40	.....	L	2-3	....	D,S	
176-2	do.	do.	.....	do.	710	37	.....	24	Dolomite	O Ꞓk	.....	.....	....	.....	....	Ab	Well reported to have been dug to a depth of 90 feet without encountering water.
177	5½ mi. NE.	Ochoee Baptist Assn.	Ed Wooten	do.	720	77	.....	6	Shale	Ꞓc	40	.....	J	.....	....	P	
	DAISY																
178	7½ mi. E.	W. H. Leaman	H. L. Carlson	Hilltop	900	201	180	6	Dolomite	O Ꞓk	180	.....	L	5	62	D	
	HARRISON																
179-S	3½ mi. E.	TVA	.....	Valley	680	.....	.....	....	do.	O Ꞓk	.....	.....	....	.....	....	....	Discharge measurement Nov. 6, 1947: 6.30 cfs. Water sample analyzed.
	GEORGETOWN																
180-S	5 mi. SW.	Anderson Spring	.....	do.	750	.....	.....	....	do.	O Ꞓk	.....	.....	....	1,000	....	D	Water sample analyzed.
	McDONALD																
181	7 mi. NW.	Sadie Davis	Ed Wooten	Slope	775	59	60	6	do.	O Ꞓk	26	8/48	B	.....	....	D	
	GEORGETOWN																
182	5½ mi. SW.	W. P. Goodner	do.	Valley	760	62	.....	6	do.	O Ꞓk	30	.....	J	.....	....	D	
183	7 mi. SW.	R. L. Munger	do.	Hilltop	800	70	.....	6	do.	O Ꞓk	68	8/48	B	.....	61	D,S	
	McDONALD																
184	6 mi. NW.	W. W. Varnell	.....	Valley	720	40	.....	4	Limestone	Olmc	24	8/48	B	.....	62	D,S	
185	do.	Snow Hill School	.....	do.	715	100	.....	6	do.	Olmc	.....	.....	C	.....	....	P	Well supplies water for 300 students.
	HARRISON																
186	4½ mi. NE.	William Kobbet	H. L. Carlson	Slope	730	96	90	6	Dolomite	O Ꞓk	45	.....	C	.....	....	D	Water sample analyzed.
187	5½ mi. N.	W. J. Lackey	.....	Valley	720	22	.....	24	Shale	Ꞓc	17	9/48	B	.....	....	D	
	McDONALD																
188	6 mi. NW.	Ted Leaman	.....	Hilltop	800	72	36	6	Dolomite	O Ꞓk	40	.....	J	.....	....	D,S	
189-1	5 mi. NW.	William S. Davis	H. L. Carlson	Valley	720	42	30	6	Limestone	Olmc	13	.....	J	.....	61	D	
189-2	5 mi. NW.	do.	.....	do.	720	37	.....	8	do.	Olmc	20	9/48	....	.....	....	Ab	
190-1	do.	J. B. Hall	Green	do.	730	67	17	6	do.	Olmc	16	9/48	B	.....	62	Ab	Water black with sulfur odor. Water sample analyzed.
190-2	do.	do.	do.	do.	730	62	15	6	do.	Olmc	46	9/48	B	.....	62	D	Water has sulfur odor.
191	6 mi. N.	Ben Lee	H. L. Carlson	do.	730	92	.....	6	do.	Olmc	51	9/48	B	.....	....	D	Static water level reported prior to 1946 to be about 10 feet.
192	4½ mi. NW.	T. D. Wrinkle	Ed Wooten	do.	730	72	.....	6	do.	Olmc	17	.....	L	.....	....	D	Water has sulfur odor.
	OOLTEWAH																
193	5 mi. N.	Frank Kelly	.....	do.	720	100	.....	6	do.	Olmc	.....	.....	C	10	....	D	
	HARRISON																
194	7 mi. NE.	N. F. Fine	.....	do.	860	19	.....	36	Dolomite	O Ꞓk	10	9/48	B	.....	61	D	
195	6½ mi. NE.	J. W. McDaniel	H. L. Carlson	Slope	780	102	98	6	do.	O Ꞓk	66	.....	J	.....	....	D	
	SODDY																
196-1	5 mi. E.	E. M. Cross	do.	Hilltop	710	86	40	6	do.	O Ꞓk	38	9/48	B	.....	62	D	
196-2	do.	do.	.....	do.	710	28	30	24	do.	O Ꞓk	.....	.....	....	.....	....	Ab	Dry hole.
197	5 mi. SE.	James Powell	Ed Wooten	Slope	700	81	30	6	do.	O Ꞓk	30	.....	C	.....	....	D	
	BIRCHWOOD																
198	5½ mi. SW.	G. D. Eldridge	H. L. Carlson	Hilltop	760	113	110	6	do.	O Ꞓk	75	9/48	B	.....	....	D,S	
199	3½ mi. SW.	T. J. Latham	Ed Wooten	Valley	745	53	.....	6	Shale	Ꞓc	30	9/48	L	10	....	D,S	

TABLE 36.—TYPICAL WELLS AND SPRINGS IN HAMILTON COUNTY—Continued

Well or	Location with reference to nearest post office	Owner or name	Driller	Topographic situation	Altitude (feet)	Depth of well (feet)	Length of casing (feet)	Diameter (inches)	Probable water-bearing beds		Depth to water level (feet)	Date of measurement	Method of lift	Yield (gallons per minute)	Temperature (°F.)	Use of water	Remarks
									Character of material	Geologic horizon							
	SODDY																
200	6½ mi. E.	A. G. Moon	Ed Wooten	Hilltop	820	126	127	6	Shale	Ꞓc	101	9/48	B	.....	....	D	
201	6 mi. E.	W. D. Malone	do.	Valley	760	60	30	6	do.	Ꞓc	25	.....	C	.....	....	D	
	DAISY																
202	4½ mi. SE.	J. O. Neyman	.....	do.	750	44	44	24	Dolomite	O-Ꞓk	16	.....	B	.....	....	D	
203	5½ mi. E.	H. C. Clift	.....	do.	710	40	.....	36	do.	O-Ꞓk	10	.....	L	.....	61	D	
204	4 mi. E.	J. R. Clift	Hale	Hilltop	820	137	100	6	do.	O-Ꞓk	65	.....	C	.....	....	D	
	SODDY																
205	3½ mi. E.	Eldridge Heirs	.....	Slope	780	44	.....	24	do.	O-Ꞓk	19	9/48	....	.....	....	Ab	Water sample analyzed.
206	4 mi. E.	G. M. Lee	E. O. Hembree	Hilltop	760	159	.....	6	do.	O-Ꞓk	90	9/48	B	.....	61	D	
207	5 mi. E.	Chattanooga Fly & Bait Casting Club	do.	Slope	720	70	.....	6	do.	O-Ꞓk	.....	.....	L	.....	60	P	
	SALE CREEK																
208	3 mi. E.	TVA	.....	do.	700	53	.....	48	do.	O-Ꞓk	22	9/48	....	.....	....	Ab	
209-1	2½ mi. SE.	Mrs. Ernest Hancock	E. O. Hembree	do.	740	96	95	6	do.	O-Ꞓk	58	9/48	B	.....	....	D	
209-2	do.	do.	.....	do.	738	42	.....	36	do.	O-Ꞓk	24	9/48	....	.....	....	Ab	
	BAKEWELL																
210	1 mi. SE.	Dale Price	.....	do.	710	53	.....	6	do.	O-Ꞓk	13	9/48	B	.....	61	D	
211	do.	Bruce Hunt	.....	do.	730	100	.....	6	do.	O-Ꞓk	.....	.....	L	10	....	D,S	
	McDONALD																
212	2 mi. SW.	Reece Ramsey	.....	do.	910	92	.....	6	Shale	Sr	75	9/48	B	.....	....	D	
213-S	do.	George W. Poe	.....	do.	930	.....	.....	....	do.	Or	.....	.....	....	10	....	P	
	OOLTEWAH																
214	2 mi. E.	O. D. McKee	.....	Hilltop	820	100	.....	6	Limestone	Mn	.....	.....	L	.....	62	D	
	APISON																
215	3 mi. E.	H. L. McCulley	H. L. Carlson	Slope	960	64	64	6	Shale	Ꞓc	.....	.....	C	.....	....	D	Well reported to flow in winter.
216	2 mi. E.	J. L. Lawson	do.	do.	960	77	.....	6	do.	Ꞓc	20	.....	C	.....	....	D	
	LUPTON CITY																
217-1	1½ mi. NE.	Dupont Chattanooga Nylon Plant	C. C. Arnold	do.	675	420	.....	8	Limestone	Olmc	20	.....	....	56	....	Ab	Test hole. Reported drawdown of 190 feet after 4 hours pumping at 56 gpm.
217-2	1 mi. E.	do.	do.	do.	670	140	.....	8	do.	Olmc	40	.....	....	50	....	Ab	Test hole. Reported drawdown of 70 feet when pumping at 50 gpm.
218	1½ mi. NE.	M. H. Hinch	.....	do.	670	139	.....	6	do.	Olmc	22	1/44	....	.....	....	D	
	SALE CREEK																
219	In town	E. J. Reedley	.....	do.	765	22	.....	36	do.	Mn	10	.....	B	.....	....	D	
220	do.	D. D. Lane	.....	Valley	745	30	.....	6	do.	Mn	.....	.....	J	.....	....	D	
221	2 mi. N.	Sallie Miller	.....	do.	710	30	.....	36	do.	Mn	22	4/49	B	.....	....	D	
222	2 mi. NE.	Frank Thomas	.....	Slope	830	60	.....	36	Dolomite	O-Ꞓk	45	.....	B	.....	....	D	
	BIRCHWOOD																
223	3½ mi. NW.	D. W. Fox	.....	do.	750	32	.....	36	do.	O-Ꞓk	25	.....	B	.....	....	D	
224	do.	J. Merle Crawley	.....	Valley	750	50	.....	36	do.	O-Ꞓk	45	.....	B	.....	....	D	Considerable seasonal variation in water level.
	GRAYSVILLE																
225	2 mi. SE.	Eugene Morgan	.....	Slope	890	25	.....	36	do.	O-Ꞓk	19	.....	B	.....	....	D	Well goes dry every fall.
226	1 mi. S.	Mrs. J. E. Lowery	.....	do.	760	60	.....	48	Limestone	Mn	.....	.....	J	.....	....	D	
	BIRCHWOOD																
227	½ mi. E.	A. R. Brown	.....	Valley	780	50	20	6	Shale	Ꞓc	30	.....	J	.....	....	D	
228	1½ mi. SE.	Tom McKinney	.....	do.	765	31	.....	3	Dolomite	O-Ꞓk	15	6/49	B	.....	....	D	
229	2 mi. S.	J. W. Smith	.....	Slope	805	39	.....	48	do.	O-Ꞓk	21	6/49	B	.....	....	D	
230	2½ mi. SE.	Jess Staton	.....	Valley	735	14	.....	36	Limestone	Olmc	13	6/49	B	.....	....	D	Water from well gets muddy after rain.

TABLE 36.—TYPICAL WELLS AND SPRINGS IN HAMILTON COUNTY—Continued

Well or spring No.	Location with reference to nearest post office	Owner or name	Driller	Topographic situation	Altitude (feet)	Depth of well (feet)	Length of casing (feet)	Diameter (inches)	Probable water-bearing beds: Character of material	Probable water-bearing beds: Geologic horizon	Depth to water level (feet)	Date of measurement	Method of lift	Yield (gallons per minute)	Temperature (°F.)	Use of water	Remarks
	GEORGETOWN																
231	3 mi. NW.	Cranfield	.....	Valley	860	19	.....	48	Dolomite	O-Ck	2	6/49	B	.....	.....	D	Well goes dry every fall.
232	2½ mi. W.	H. W. Bettis	.....	Slope	875	20	.....	48	do.	O-Ck	18	6/49	B	.....	.....	D	
233	2½ mi. SW.	J. N. Gannaway	.....	Valley	880	30	.....	20	Limestone	Ouc	27	.....	B	.....	.....	D	
234	In town	Charles T. Harris	Martin Zigler	do.	810	58	18	6	do.	Ouc	20	.....	J	.....	.....	D,S	
	SALE CREEK																
235	1 mi. W.	John Campbell	.....	do.	795	14	.....	36	Sandstone	Pu	12	6/49	B	.....	.....	D	
236	3 mi. NW.	David Gallion	.....	Slope	1,645	41	.....	6	do.	Pu	30	6/49	B	.....	.....	D	
237	3½ mi. NW.	S. E. Gann	E. O. Hembree	do.	1,765	100	15	6	do.	Pu	25	.....	B	.....	.....	D	
	GRAYSVILLE																
238	4½ mi. W.	Coey Standifer	do.	do.	1,862	60	20	6	do.	Pu	25	.....	L	.....	.....	D	
	SALE CREEK																
239	½ mi. E.	Sale Creek School	.....	Valley	730	60	.....	36	Limestone	Mn	.....	.....	J	.....	.....	P	Water sample analyzed.
	BAKEWELL																
240	½ mi. S.	Bakewell School	.....	do.	710	50	.....	36	Dolomite	O-Ck	.....	.....	J	.....	.....	P	Do.
241	4 mi. SE.	Mt. Tabor School	.....	Slope	755	60	.....	6	do.	O-Ck	27	.....	B	.....	60	P	Do.
	DAISY																
242-S	1½ mi. NE.	Cold Spring	.....	Valley	735	.....	.....	.....	Limestone	Os	.....	.....	.....	3	55	D	Do.
	HIXSON																
243	4½ mi. NE.	Gold Point School	.....	Slope	695	30	.....	36	do.	Olmc	.....	.....	L	.....	60	P	Do.
244-S	2 mi. SE.	Gold Point Spring	.....	do.	670	.....	.....	.....	do.	Ouc	.....	.....	.....	1,000	58	....	Water turbid. Water sample analyzed.

TABLE 37.—ANALYSES OF GROUND WATER IN HAMILTON COUNTY

(Chemical constituents in parts per million)

Well or spring No.	Owner or name of spring or well	Geologic horizon	Date of collection	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na & K)	Carbonate (CO_3)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Hardness as $CaCO_3$	Specific Conductance (Micromhos at 25°C.)	pH
6	Fisherman's Headquarters	O-Ck	12/17/48	0.03	141	32	43	0	406	133	75	.....	.....	484	1016	7.3
9	J. H. Allison & Co.	Sr	12/16/48	.02	84	14	14	0	254	46	30	.....	.....	267	554	7.3
5-2	American Cyanamid Co.	MDc	12/16/48	.08	25	7.9	3.4	0	118	1.0	3.2	.....	.....	95	202	7.6
0-1	Chattanooga Medicine Co.	Mn	12/16/48	.17	51	13	51	0	194	106	16	.....	.....	181	542	8.0
3-1	Chattanooga Area Milk Producers Assn.	Olmc	12/18/48	26	.....	.....	.....	.....	354	11	27	.....	.....	192	626	7.8
1	Bonny Oaks School	On	12/16/48	.07	18	7.2	1.6	0	84	4.0	3.5	.....	.....	74	142	8.0
5	Hamilton County Hospital	-Cc	12/16/48	.01	39	1.1	.9	0	118	1	4.2	.....	.....	102	210	7.7
3	Southern Jr. College	Mfp	12/15/48	.14	21	6.1	11	0	52	53	3.0	.....	.....	78	179	7.0
)	Meadowlake Country Club	O-Ck	12/18/48	.02	29	13	5.1	0	138	3	5.0	.....	17	126	259	7.5
)	Radio Station WDEF	Mn	12/18/48	28	13	4.8	24	0	98	5.0	14	.....	.....	52	199	6.8
-S	TVA	O-Ck	12/16/48	.04	21	10	1.4	0	111	2	2.5	.....	.....	93	179	7.8
-S	Anderson Spring	O-Ck	12/16/48	.05	18	5.1	4.7	0	86	2	2.5	.....	.....	66	146	7.1
	William Kobbett	O-Ck	12/16/48	.02	23	11	3.1	0	128	1	2.5	.....	.....	103	195	7.8
-1	J. B. Hall	Olmc	9/ 1/48	.....	.....	.....	.....	.....	493	173	680	.....	0	97	3071	7.6
	Eldridge Heirs	O-Ck	1/19/50	.14	16	3.3	1.2	0	47	5	8.5	0.1	.....	53	121	7.8
	Sale Creek School	Mn	1/19/50	.22	4.8	2.3	3.6	0	17	9	4.2	0	.....	21	73.3	6.8
	Bakewell School	O-Ck	1/19/50	.13	41	15	10	0	215	7	2.2	0	.....	164	339	8.2
	Mt. Tabor School	O-Ck	1/19/50	.14	42	11	.6	0	174	4	2.8	0	0.9	150	273	8.2
-S	Cold Spring	Os	1/19/50	.06	2.1	0.7	3.8	0	5	6	3.5	0	1.5	8	33.8	5.8
	Gold Point School	Olmc	1/19/50	.77	76	24	19	0	242	106	14	0	.....	288	616	8.1
-S	Gold Point Spring	Ouc	1/19/50	.33	58	6.3	2.1	0	188	7	6.0	.1	6.4	171	298	8.4

Site No. TND004934188

Reference No. 9

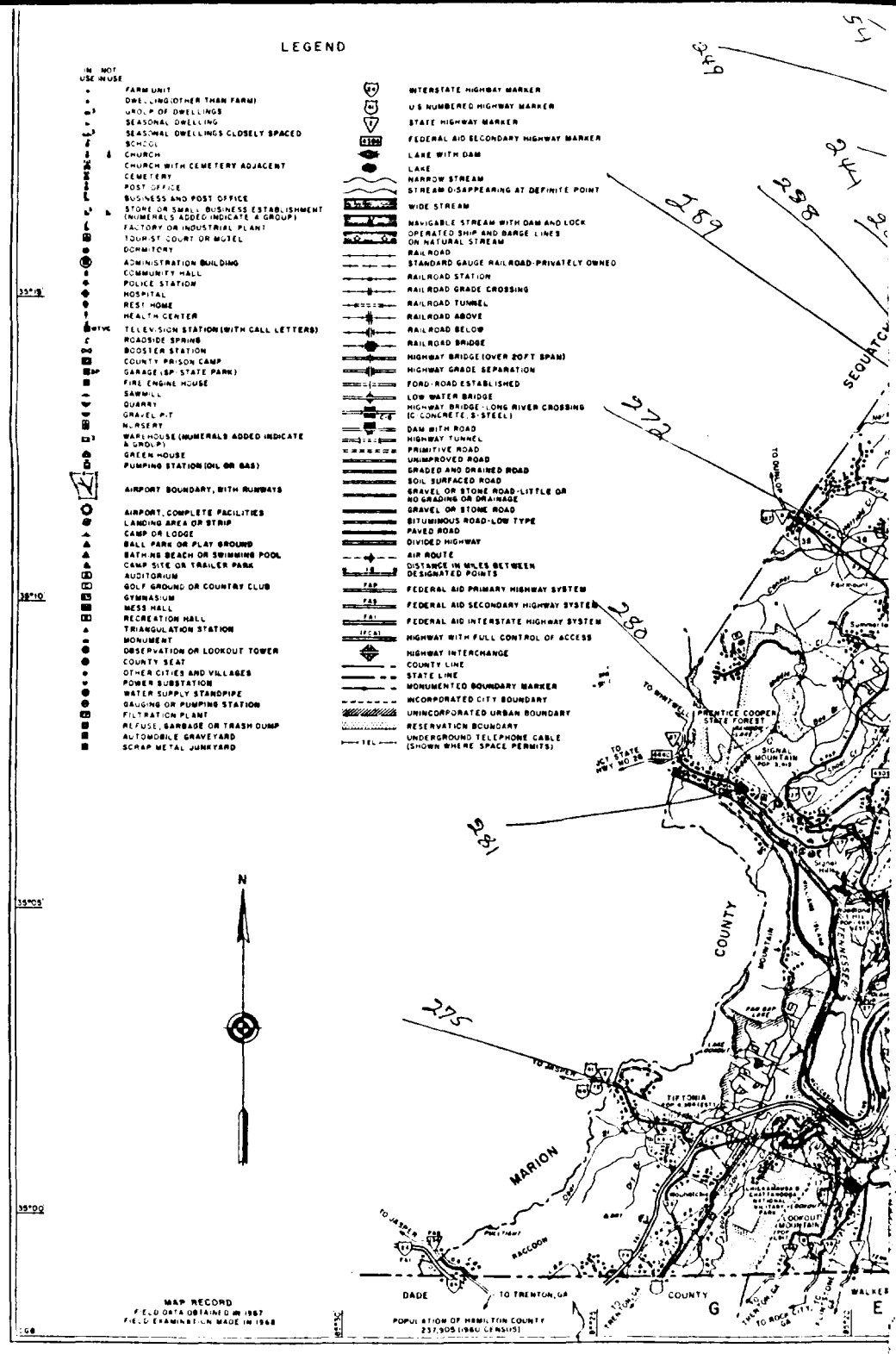
O	WELL #	WELL DEPTH / QUAD QTR N / PH	TEMP	AQ DEPTH / BASIN / FE	P&D / SO4	YIELD / WRC / NACL	DRW / LATITUDE / THD	SPEC-CAP / LONGITUDE / CHD	SIO2	TU	ELEV / PROJ / ALKA	W.L. / FM / TDS	W.L.ELEV / OVB / COLI	FEC	DIA / SOURCE / TOT/FEC	CASING / TOPO / QUAL	TESTS / COMPLETE	USE / SCREEN-CAV / CONT	OWNER
3	268		448	440	7	300					175		158		6 / BEDROCK	158G / GOOD	INDUSTRIAL / 07/07/70	236	VOLUNTEER A A P
3	269		102	100	7	10					70		95		6 / BEDROCK	95G / GOOD	DOMESTIC / 11/02/70	236	CAYWOOD T
	270		145	142	7	10					80		140		6 / BEDROCK	140G / GOOD	DOMESTIC / 10/31/70	236	ALEXANDER M
	271		430	425	7	10					150		95		6 / BEDROCK	106G / GOOD	DOMESTIC / 10/01/70	236	BAGGETT J
	272		700	310	7	3					200				6	22G / GOOD	PUBLIC / 09/05/70	236	TN VALLEY AUTHOR
	273		307	300	7	20					150		95		6 / BEDROCK	102G / GOOD	DOMESTIC / 04/07/70	236	BACON T
	274		165	155	7	10					145		125		6 / BEDROCK	138G / GOOD	DOMESTIC / 04/01/70	236	FINNEY J
	275		208	198	7	20					100		19		6 / BEDROCK	28G / GOOD	DOMESTIC / 03/26/70	236	HOWELL T

LEGEND

IN USE / NOT IN USE

- FARM UNIT
- DWELLING (OTHER THAN FARM)
- GROUP OF DWELLINGS
- SEASONAL DWELLING
- SEASONAL DWELLINGS CLOSELY SPACED
- SCHOOL
- CHURCH
- CHURCH WITH CEMETERY ADJACENT
- CEMETERY
- POST OFFICE
- BUSINESS AND POST OFFICE
- STORE OR SMALL BUSINESS ESTABLISHMENT (NUMERALS ADDED INDICATE A GROUP)
- FACTORY OR INDUSTRIAL PLANT
- TOURIST COURT OR MOTEL
- DORMITORY
- ADMINISTRATION BUILDING
- COMMUNITY HALL
- POLICE STATION
- HOSPITAL
- REST HOME
- HEALTH CENTER
- TELEVISION STATION (WITH CALL LETTERS)
- ROADSIDE SPRING
- BOOSTER STATION
- COUNTY PRISON CAMP
- GARAGE (SP STATE PARK)
- FIRE ENGINE HOUSE
- SAWMILL
- QUARRY
- GRAVEL PIT
- NURSERY
- WAREHOUSE (NUMERALS ADDED INDICATE A GROUP)
- GREEN HOUSE
- PUMPING STATION (OIL OR GAS)
- AIRPORT BOUNDARY, WITH RUNWAYS
- AIRPORT, COMPLETE FACILITIES
- LANDING AREA OR STRIP
- CAMP OR LODGE
- BALL PARK OR PLAY GROUND
- BATHING BEACH OR SWIMMING POOL
- CAMP SITE OR TRAILER PARK
- AUDITORIUM
- GOLF GROUND OR COUNTRY CLUB
- GYMNASIUM
- MESS HALL
- RECREATION HALL
- TRIANGULATION STATION
- MONUMENT
- OBSERVATION OR LOOKOUT TOWER
- COUNTY SEAT
- OTHER CITIES AND VILLAGES
- POWER SUBSTATION
- WATER SUPPLY STANDPIPE
- GAUGING OR PUMPING STATION
- FILTRATION PLANT
- REFUSE, GARBAGE OR TRASH DUMP
- AUTOMOBILE GRAVEYARD
- SCRAP METAL JUNKYARD

- INTERSTATE HIGHWAY MARKER
- U S NUMBERED HIGHWAY MARKER
- STATE HIGHWAY MARKER
- FEDERAL AID SECONDARY HIGHWAY MARKER
- LAKE WITH DAM
- LAKE
- NARROW STREAM
- STREAM DISAPPEARING AT DEFINITE POINT
- WIDE STREAM
- NAVIGABLE STREAM WITH DAM AND LOCK
- OPERATED SHIP AND BARGE LINES ON NATURAL STREAM
- RAILROAD
- STANDARD GAUGE RAILROAD-PRIVATELY OWNED
- RAILROAD STATION
- RAILROAD GRADE CROSSING
- RAILROAD TUNNEL
- RAILROAD ABOVE
- RAILROAD BELOW
- RAILROAD BRIDGE
- HIGHWAY BRIDGE (OVER 20FT SPAN)
- HIGHWAY GRADE SEPARATION
- FORD-ROAD ESTABLISHED
- LOW WATER BRIDGE
- HIGHWAY BRIDGE-LONG RIVER CROSSING (C-CONCRETE, S-STEEL)
- DAM WITH ROAD
- HIGHWAY TUNNEL
- PRIMITIVE ROAD
- UNIMPROVED ROAD
- GRADED AND DRAINED ROAD
- SOIL SURFACED ROAD
- GRAVEL OR STONE ROAD-LITTLE OR NO GRADING OR DRAINAGE
- GRAVEL OR STONE ROAD
- BITUMINOUS ROAD-LOW TYPE
- PAVED ROAD
- DIVIDED HIGHWAY
- AIR ROUTE
- DISTANCE IN MILES BETWEEN DESIGNATED POINTS
- FAP — FEDERAL AID PRIMARY HIGHWAY SYSTEM
- FAS — FEDERAL AID SECONDARY HIGHWAY SYSTEM
- FAI — FEDERAL AID INTERSTATE HIGHWAY SYSTEM
- (FCA) — HIGHWAY WITH FULL CONTROL OF ACCESS
- HIGHWAY INTERCHANGE
- COUNTY LINE
- STATE LINE
- MONUMENTED BOUNDARY MARKER
- INCORPORATED CITY BOUNDARY
- UNINCORPORATED URBAN BOUNDARY
- RESERVATION BOUNDARY
- TEL — UNDERGROUND TELEPHONE CABLE (SHOWN WHERE SPACE PERMITS)



MAP RECORD
FIELD DATA OBTAINED IN 1967
FIELD EXAMINATION MADE IN 1968

POPULATION OF HAMILTON COUNTY
237,905 (1980 CENSUS)

Site No. TND 004934188

Reference No. 10

OVERSIZED

DOCUMENT

Site No. TND004934188

Reference No. 11

N: MERCURY NUCLEATE, SOLID (DOT)

TOXICITY DATA: 3

DOT: Poison B, Label: Poison FEREAC 41,57018,76. Occupational Exposure to Inorganic Mercury recm std: Air: TWA 0.05 mg(Hg)/m3 NTIS**.

THR: A poison. See also mercury compounds.

Disaster Hazard: When heated to decomp it emits tox fumes of Hg.

MERCUROPHEN

CAS RN: 17140737 NIOSH #: OW 4550000

af: $C_6H_4HgNO_4 \cdot Na$; mw: 377.70

Black-red odorless powder. Sol in hot H_2O.

TOXICITY DATA: 3	CODEN:
[illegible]: LDLo:8 mg/kg	12VXA5 8,661,68
[illegible]: LDLo:12 mg/kg	12VXA5 8,661,68
[illegible]: LDLo:4 mg/kg	12VXA5 8,661,68

Occupational Exposure to Inorganic Mercury recm std: Air: TWA 0.05 mg(Hg)/m3 NTIS**.

THR: HIGH ivn, ims. See also mercury compounds. Poison.

Disaster Hazard: When heated to decomp it emits very tox fumes of NO_x and Hg vapors.

MERCUROPHYLLINE

CAS RN: 8012348 NIOSH #: OV 8650000

SYNS:

MERCUPURIN MERCUZANTHIN

TOXICITY DATA: 3-2	CODEN:
[illegible]n TDLo:28 mg/kg:CNS	JAMAAP 117,1806,41
[illegible]us LD50:163 mg(Hg)/kg	JPETAB 105,336,52
[illegible]us LD50:1410 mg/kg	JPETAB 99,149,50
[illegible]at LDLo:250 mg/kg	JPETAB 99,149,50
[illegible]bt LDLo:177 mg/kg	JPETAB 99,149,50

Occupational Exposure to Inorganic Mercury recm std: Air: TWA 0.05 mg(Hg)/m3 NTIS**.

THR: A hmn CNS. HIGH scu, ivn. MOD ivn. See also mercury compounds.

Disaster Hazard: When heated to decomp it emits tox fumes of Hg.

MERCUROUS CHLORIDE

CAS RN: 7546307 NIOSH #: OV 8750000

af: Cl_2Hg_2; mw: 472.09

White, odorless, tasteless, heavy powder or crystals. Sunlight causes it to decomp into mercuric chloride and metallic Hg. Insol in H_2O, alc and ether. Protect from light. Sublimes @ 400°; d: 7.150.

SYNS

[illegible]RY(I) CHLORIDE MERCUROCHLORIDE (DUTCH)

[illegible] MERCURY MONOCHLORIDE

[illegible] MERCURY PROTOCHLORIDE

[illegible]ANO (ITALIAN) MILD MERCURY CHLORIDE

[illegible]RE MERCUREUX QUECKSILBER(I)-CHLORID (GERMAN)

[illegible] MERCUROSO (ITALIAN) SUBCHLORIDE OF MERCURY

[illegible] (GERMAN)

TOXICITY DATA: 3	CODEN:
mrc-bcs 50 mmol/L	MUREAV 77,109,80
orl-rat LD50:210 mg/kg	WRPCA2 9,119,70

Toxicology Review: SDGTB3 1(2),177,71; RREVAH 42,103,72; 27ZTAP 3,91,69. Occupational Exposure to Inorganic Mercury recm std: Air: TWA 0.05 mg(Hg)/m3 NTIS**. Reported in EPA TSCA Inventory, 1980.

THR: MUT data. HIGH orl. See also mercury compounds.

Disaster Hazard: When heated to decomp it emits very tox fumes of Cl^- and Hg.

Human Tox: Excessive doses may cause Hg poisoning.

Antidote: BAL (Dimercaprol). If laxation from oral mercurous chloride should not occur, saline laxative must be administered to prevent possibility of Hg poisoning.

Med Incomp: Bromides, iodides, alkali chlorides, sulfates, sulfites, carbonates, hydroxides, lime water, acacia, ammonia, golden antimony sulfide, cocaine, cyanides, copper salts, hydrogen peroxide, iodine, iodoform, Pb salts, silver salts, soap, sulfides.

MERCURY

CAS RN: 7439976 NIOSH #: OV 4550000

af: Hg; aw: 200.59

Silvery liquid, metallic element. mp: −38.89°, bp: 356.9°, d: 13.546, vap. press: 1 mm @ 126.2°. vap press: @ 25° = 2×10^{-3} mm.

SYNS:

COLLOIDAL MERCURY	NCI-C60399
KWIK (DUTCH)	QUECKSILBER (GERMAN)
MERCURE (FRENCH)	QUICK SILVER
MERCURIO (ITALIAN)	RTEC (POLISH)
MERCURY, METALLIC (DOT)	

TOXICITY DATA: 3	CODEN:
ihl-rat TCLo:890 ng/m3/24H (16W male)	GISAAA 45(3),72,80
ihl-rat TCLo:7440 ng/m3/24H (16W male)	GISAAA 45(3),72,80
ipr-rat TDLo:400 mg/kg/14D-I:ETA	ZEKBAI 61,511,57
ihl-wmn TCLo:150 ug/m3/46D:GIT	AEHLAU 33,186,78
ihl-wmn TCLo:150 ug/m3/46D:CNS	AEHLAU 33,186,78
ihl-rbt LCLo:29 mg/m3/30H	AMIHBC 7,19,53

TLV: Air: 0.05 mg(Hg)/m3 (skin) DTLVS* 4,254,80. Toxicology Review: AJOGAH 126(3),390,76; JTEHD6 2(3),491,77; TRBMAV 33(1),85,75; PHJOAV 213(5781),159,74; JDSCAE 58(12),1767,75; CPEDAM 13,783,74; QURBAW 7(1),75,74; AEMBAP 48,463,74; JAVMA4 164(3),277,74; 31ZNAA 2,365,73; AEMBAP 40,239,73; CTOXAO 5(2),151,72; BIOGAL 41(7),208,75; ADTEAS 5,51,72; RREVAH 42,103,72; FOREAE 7,313,42; NISIA9 27(9),942,74; MIBUBI 9(4),321,75; STEVA8 2(4),341,74; ENVRAL 13,36,77; 85CVA2 5,63,70; JOCMA7 2,337,60; PEXTAR 12,102,69; PDTNBH 6,204,77.

OSHA Standard: Air: CL 1 mg/10m3 (SCP-N) FEREAC 39,23540,74. DOT: ORM-B, Label: None FEREAC 41,57018,76. Occupational Exposure to Inorganic Mercury recm std: Air: TWA 0.05 mg(Hg)/m3 NTIS**. "NIOSH Manual of Analytical Methods" VOL 1

145,165,167, VOL 4 S199*, VOL 5 175#. Reported in EPA TSCA Inventory, 1980.

THR: A hmn GIT, CNS. An exper ETA. HIGH ihl. See also mercury compounds. Reacts violently with acetylene, NH_3, BPI_2, Cl_2, ClO_2, CH_3N_3, Na_2C_2, nitromethane, (butyne diol + acid).

Incomp: Acetylenic compounds; ammonia; boron diiodophosphide; ethylene oxide; metals; methyl azide; methylsilane, oxygen; oxidants; tetracarbonylnickel, oxygen.

For further information see Vol. 1, No. 3 of *DPIM Report.*

MERCURY AMIDE CHLORIDE

CAS RN: 10124488 NIOSH #: OV 7020000
mf: ClH_2HgN; mw: 252.07

White pulverulent lumps or powder.

SYNS:

AMINOMERCURIC CHLORIDE
MERCURIC AMMONIUM CHLORIDE, SOLID
MERCURIC CHLORIDE, AMMONIATED
MERCURY AMINE CHLORIDE
MERCURY AMMONIATED
WHITE MERCURY PRECIPITATED
WHITE PRECIPITATE

TOXICITY DATA:

Aquatic Toxicity Rating: TLm96:under 1 ppm WQCHM* 3,-,74. *Toxicology Review:* SDGTB3 1(2),177,71; 27ZTAP 3,15,69. DOT: Poison B, Label: Poison FEREAC 41,57018,76. Occupational Exposure to Inorganic Mercury recm std: Air: TWA 0.05 mg(Hg)/m3 NTIS**. Reported in EPA TSCA Inventory, 1980.

THR: A poison. See also mercury compounds.

Disaster Hazard: When heated to decomp it emits very tox fumes of Cl^-, NO_x and Hg.

MERCURY(II)-o-ARSENATE

CAS RN: 7784374 NIOSH #: OV 7040000
mf: $AsHO_4 \cdot Hg$; mw: 340.52

Yellow powder; mp: decomp. Insol in H_2O, sol in HCl or HNO_3.

SYN: MERCURIC ARSENATE

TOXICITY DATA: 3

Aquatic Toxicity Rating: TLm96:under 1 ppm WQCHM* 3,-,74. Occupational Exposure to Inorganic Mercury recm std: Air: TWA 0.05 mg(Hg)/m3 NTIS**. Occupational Exposure to Inorganic Arsenic recm std: Air: CL 2 ug/m3/15M NTIS**.

THR: A poison. See also mercury and arsenic compounds.

Disaster Hazard: When heated to decomp it emits very tox fumes of Hg and As.

MERCURY(I) AZIDE

mf: Hg_2N_6; mw: 485.22

THR: Explodes on heating in air. HIGH tox. See also azides, mercury compounds.

Disaster Hazard: When heated to decomp it emits very tox fumes of NO_x and Hg.

MERCURY(II) AZIDE

mf: HgN_6; mw: 284.65

THR: High friction sensitivity; brisance on [illegible] HIGH tox. See also mercury compounds, [illegible]

Disaster Hazard: When heated to decomp it [illegible] tox fumes of Hg and NO_x.

MERCURY(II) BENZOATE

CAS RN: 583153 NIOSH #: OV [illegible]
mf: $C_{14}H_{10}O_4 \cdot Hg$; mw: 442.83

White crystalline powder; odorless. mp: 165° [illegible] in NaCl soln; slightly sol in alc. Protect from [illegible]

SYNS:

MERCURIC BENZOATE
MERCURIC BENZOATE, [illegible] (DOT)

TOXICITY DATA: 3

Aquatic Toxicity Rating: TLm96:under [illegible] WQCHM* 3,-,74. DOT: Poison B, Label: [illegible] FEREAC 41,57018,76. Occupational Exposure [illegible] organic Mercury recm std: Air: TWA 0.05 [illegible] m3 NTIS**.

THR: A poison. See also mercury compounds

Disaster Hazard: When heated to decomp it [illegible] fumes of Hg.

MERCURY(I) BROMIDE (1:1)

CAS RN: 10031182 NIOSH #: OV [illegible]
mf: BrHg; mw: 280.50

White-yellow tetrg cryst or powder; odorless. [illegible] vap d: 19.3. Darkens on exposure to light. Sub[illegible] approx 390° (decomp); Insol in H_2O, alc, ether [illegible] by hot HCl or alkali bromides. Protect from light

SYN: MERCUROUS BROMIDE, SOLID (DOT)

TOXICITY DATA: 3

Aquatic Toxicity Rating: TLm96:under [illegible] WQCHM* 3,-,74. DOT: Poison B, Label: [illegible] FEREAC 41,57018,76. Occupational Exposure [illegible] organic Mercury recm std: Air: TWA 0.05 [illegible] m3 NTIS**.

THR: A poison. See also mercury compounds [illegible] mides.

Disaster Hazard: When heated to decomp it [illegible] tox fumes of Br^- and Hg.

MERCURY(II) BROMIDE (1:2)

CAS RN: 7789471 NIOSH #: OV [illegible]
mf: Br_2Hg; mw: 360.41

White crystals or cryst powder. Sensitive to light [illegible] 237°; bp: 322° (sublimes); d: 6.109 @ 25°; vap [illegible] mm @ 136.5°; sublimes @ higher temp: very [illegible] alc, methanol, HCl, HBr, alkali bromide solns [illegible] sol in chloroform.

SYNS:

MERCURIC BROMIDE
MERCURIC BROMIDE [illegible] (DOT)

Site No. TND 004934188

Reference No. 12

1980 Census of Population and Housing

Census Tracts

CHATTANOOGA, TENN.-GA.

STANDARD METROPOLITAN STATISTICAL AREA

PHC80-2-118

Issued August 1983

U.S. Department of Commerce
Malcolm Baldrige, Secretary
Robert G. Dederick,
Under Secretary for
Economic Affairs

BUREAU OF THE CENSUS
Bruce Chapman, Director

Site No. TND 004934188

Reference No. 13

Table P-1. **General Characteristics of Persons: 1980**

(For meaning of symbols, see Introduction. For definitions of terms, see appendixes A and B)

Census Tracts	The SMSA	Georgia (pt.)	Catoosa County, Ga.	Dade County, Ga.	Walker County, Ga.	Tennessee (pt.)	Hamilton County, Tenn. Total	Chattanooga city	East Ridge city	Middle Valley (CDP)	Red Bank city
AGE											
Total persons	**426 540**	**186 779**	**36 991**	**12 318**	**56 470**	**320 761**	**287 740**	**169 565**	**21 236**	**11 420**	**13 297**
Under 5 years	30 697	8 081	2 788	955	4 338	22 616	20 093	11 912	1 063	1 032	739
5 to 9 years	33 212	8 916	3 280	1 075	4 561	24 296	21 518	12 165	1 226	1 212	806
10 to 14 years	34 120	8 969	3 232	1 069	4 668	25 151	22 257	12 546	1 432	1 139	849
15 to 19 years	38 595	9 586	3 343	1 238	5 005	29 009	25 882	15 309	1 722	959	1 157
20 to 24 years	37 883	8 572	2 934	1 167	4 471	29 311	26 697	16 640	1 963	703	1 522
25 to 34 years	69 899	16 815	6 264	1 991	8 560	53 084	48 012	27 033	3 368	2 553	2 388
35 to 44 years	50 544	13 534	4 996	1 551	6 987	37 010	32 917	17 198	2 473	1 787	1 521
45 to 54 years	45 278	11 156	4 042	1 162	5 952	34 122	30 732	18 206	2 718	1 019	1 307
55 to 64 years	40 011	9 784	3 035	1 046	5 703	30 227	27 382	16 991	2 680	548	1 331
65 to 74 years	29 063	6 752	2 096	675	3 981	22 311	19 934	13 073	1 693	309	1 082
75 years and over	17 238	3 614	981	389	2 244	13 624	12 316	8 492	898	159	595
3 and 4 years	12 126	3 284	1 182	382	1 720	8 842	7 800	4 501	418	439	289
16 years and over	320 989	77 797	26 987	8 990	41 820	243 192	219 068	130 183	17 190	7 834	10 692
18 years and over	305 454	73 782	25 548	8 496	39 738	231 672	208 839	124 255	16 479	7 391	10 213
21 years and over	282 243	68 423	23 748	7 717	36 958	213 820	192 624	114 276	15 444	6 940	9 502
60 years and over	64 716	14 963	4 477	1 568	8 918	49 753	44 734	29 413	3 801	702	2 290
62 years and over	56 872	13 033	3 860	1 365	7 808	43 839	39 379	26 083	3 265	594	2 044
Median	30.4	30.3	29.9	28.1	31.1	30.4	30.5	30.5	34.3	28.1	30.9
Female	**221 972**	**94 258**	**19 982**	**6 232**	**29 044**	**167 614**	**150 811**	**90 250**	**11 382**	**5 707**	**6 911**
Under 5 years	14 776	3 881	1 337	458	2 086	10 895	9 666	5 786	517	483	367
5 to 9 years	16 158	4 261	1 575	517	2 169	11 897	10 503	5 919	635	588	399
10 to 14 years	16 643	4 382	1 594	514	2 274	12 261	10 874	6 189	695	548	367
15 to 19 years	18 823	4 659	1 663	602	2 394	14 164	12 647	7 551	817	455	512
20 to 24 years	19 738	4 468	1 539	603	2 326	15 270	13 973	8 688	1 056	376	835
25 to 34 years	35 799	8 668	3 304	1 039	4 325	27 131	24 587	13 805	1 735	1 352	1 192
35 to 44 years	25 989	6 839	2 537	762	3 540	19 150	17 116	9 215	1 350	856	762
45 to 54 years	23 847	5 786	2 074	598	3 114	18 061	16 344	9 872	1 504	502	680
55 to 64 years	21 741	5 315	1 635	532	3 148	16 426	14 891	9 387	1 470	266	769
65 to 74 years	16 994	3 771	1 190	359	2 222	13 223	11 898	7 992	978	183	637
75 years and over	11 464	2 328	634	248	1 446	9 136	8 312	5 846	625	98	391
3 and 4 years	5 902	1 613	589	180	844	4 289	3 773	2 190	200	206	142
16 years and over	170 822	40 875	14 220	4 642	22 013	129 947	117 498	71 042	9 386	3 997	5 686
18 years and over	163 387	38 930	13 515	4 404	21 011	124 457	112 617	68 183	9 033	3 786	5 503
21 years and over	151 574	36 236	12 616	4 010	19 610	115 338	104 307	63 033	8 524	3 572	5 130
60 years and over	38 524	8 618	2 596	873	5 149	29 906	27 029	18 209	2 241	384	1 381
62 years and over	34 258	7 538	2 246	761	4 531	26 720	24 141	16 368	1 962	335	1 242
Median	31.8	31.4	30.7	28.8	32.5	31.9	31.9	32.5	36.7	28.4	32.6
HOUSEHOLD TYPE AND RELATIONSHIP											
Total persons	**426 540**	**186 779**	**36 991**	**12 318**	**56 470**	**320 761**	**287 740**	**169 565**	**21 236**	**11 420**	**13 297**
In households	417 346	104 991	36 956	11 925	56 110	312 355	279 652	163 390	21 079	11 420	13 124
Householder	150 760	36 280	12 648	3 998	19 634	114 480	103 319	62 139	8 377	3 527	5 611
Family householder	117 212	30 052	10 642	3 348	16 062	87 160	77 951	44 320	6 411	3 229	3 756
Nonfamily householder	33 548	6 228	2 006	650	3 572	27 320	25 368	17 819	1 966	298	1 855
Living alone	30 489	5 859	1 865	605	3 389	24 630	22 745	15 950	1 769	271	1 635
Spouse	96 344	26 032	9 267	2 902	13 863	70 312	62 406	32 904	5 354	2 958	3 128
Other relatives	163 366	41 619	14 691	4 850	22 078	121 747	108 382	64 340	6 948	4 848	4 060
Nonrelatives	6 876	1 060	350	175	535	5 816	5 545	4 007	400	87	325
Inmate of institution	3 897	435	33	68	334	3 462	3 257	2 798	122	-	-
Other, in group quarters	5 297	353	2	325	26	4 944	4 831	3 377	35	-	173
Persons per household	2.77	2.89	2.92	2.98	2.86	2.73	2.71	2.63	2.52	3.24	2.34
Persons per family	3.22	3.25	3.25	3.32	3.24	3.20	3.19	3.19	2.92	3.42	2.91
Persons 65 years and over	**46 301**	**10 366**	**3 077**	**1 064**	**6 225**	**35 935**	**32 250**	**21 565**	**2 591**	**468**	**1 677**
In households	44 119	10 019	3 068	1 001	5 950	34 100	30 612	20 340	2 474	468	1 677
Householder	29 736	6 697	2 030	680	3 987	23 039	20 666	14 073	1 582	268	1 129
Nonfamily householder	13 118	2 691	837	268	1 586	10 427	9 505	6 967	626	100	477
Living alone	12 661	2 635	819	263	1 553	10 026	9 117	6 659	609	98	469
Spouse	9 126	2 206	652	206	1 348	6 920	6 129	3 737	577	116	394
Other relatives	4 779	1 034	360	102	572	3 745	3 438	2 225	300	80	149
Nonrelatives	478	82	26	13	43	396	379	305	15	4	5
Inmate of institution	2 051	347	9	63	275	1 704	1 534	1 136	112	-	-
Other, in group quarters	131	-	-	-	-	131	104	89	5	-	-
FAMILY TYPE BY PRESENCE OF OWN CHILDREN											
Families	**117 212**	**30 052**	**10 642**	**3 348**	**16 062**	**87 160**	**77 951**	**44 320**	**6 411**	**3 229**	**3 756**
With own children under 18 years	59 080	15 859	5 856	1 841	8 162	43 221	38 293	20 789	2 670	2 115	1 641
Number of own children under 18 years	108 284	29 151	10 579	3 454	15 118	79 133	70 042	38 906	4 398	3 818	2 726
Married-couple families	**96 344**	**26 032**	**9 267**	**2 902**	**13 863**	**70 312**	**62 406**	**32 904**	**5 354**	**2 958**	**3 128**
With own children under 18 years	48 149	13 809	5 076	1 606	7 127	34 340	30 003	14 630	2 129	1 955	1 316
Number of own children under 18 years	88 548	25 616	9 261	3 056	13 299	62 932	54 888	27 143	3 628	3 554	2 238
Female householder, no husband present	**17 485**	**3 284**	**1 154**	**332**	**1 798**	**14 201**	**13 170**	**9 791**	**903**	**215**	**533**
With own children under 18 years	9 655	1 743	671	186	886	7 912	7 432	5 588	494	131	297
Number of own children under 18 years	17 694	3 036	1 150	312	1 574	14 658	13 780	10 846	701	214	447
MARITAL STATUS											
Male, 15 years and over	**154 116**	**37 979**	**13 115**	**4 476**	**20 288**	**116 137**	**104 104**	**60 586**	**7 988**	**3 949**	**5 125**
Single	38 341	7 936	2 590	1 104	4 242	30 405	27 676	17 760	1 712	758	1 360
Now married, except separated	99 787	26 804	9 502	2 991	14 311	72 983	64 796	34 498	5 503	3 003	3 207
Separated	2 244	442	134	42	266	1 802	1 674	1 352	62	23	56
Widowed	3 759	793	231	102	460	2 966	2 673	1 940	160	30	94
Divorced	9 985	2 004	658	237	1 109	7 981	7 285	5 036	543	135	408
Female, 15 years and over	**174 395**	**41 834**	**16 576**	**4 743**	**22 515**	**132 861**	**119 768**	**72 356**	**9 535**	**4 088**	**5 778**
Single	32 353	6 206	2 157	863	3 186	26 147	24 203	16 120	1 547	589	1 114
Now married, except separated	99 576	26 785	9 511	2 987	14 287	72 791	64 595	34 355	5 489	3 003	3 207
Separated	3 303	701	215	75	411	2 602	2 457	2 010	101	23	58
Widowed	23 831	5 215	1 592	565	3 058	18 616	16 871	11 760	1 379	252	749
Divorced	15 332	2 927	1 101	253	1 573	12 405	11 642	8 111	1 019	221	650

Table P-1. General Characteristics of Persons: 1980—Con.

[For meaning of symbols, see Introduction. For definitions of terms, see appendixes A and B]

Census Tracts	Hamilton County, Tenn.—Con.			Catoosa County, Ga.							Dade County, Ga.	
	Remainder	Marion County, Tenn.	Sequatchie County, Tenn.	Tract 0301	Tract 0302	Tract 0303	Tract 0304	Tract 0305	Tract 0306	Tract 0307	Tract 0401	Tract 0402
AGE												
Total persons	**72 222**	**24 416**	**8 605**	**3 909**	**4 961**	**5 220**	**7 664**	**3 186**	**6 133**	**5 918**	**9 045**	**3 273**
Under 5 years	5 347	1 842	681	305	392	453	596	240	423	379	656	299
5 to 9 years	6 109	2 044	734	366	434	519	730	275	500	456	760	315
10 to 14 years	6 291	2 098	796	318	455	524	664	260	505	506	772	297
15 to 19 years	6 735	2 322	805	373	432	454	645	327	532	580	923	315
20 to 24 years	5 869	1 931	683	307	373	419	562	304	503	466	847	320
25 to 34 years	12 670	3 703	1 369	678	836	1 015	1 386	489	995	865	1 487	504
35 to 44 years	9 938	3 009	1 084	519	660	733	1 112	390	788	794	1 115	436
45 to 54 years	7 482	2 559	831	414	490	485	795	374	760	724	851	311
55 to 64 years	5 832	2 146	699	290	399	331	601	259	564	591	774	272
65 to 74 years	3 777	1 802	575	225	344	197	392	201	373	364	528	147
75 years and over	2 172	960	348	114	146	90	181	67	190	193	332	57
3 and 4 years	2 153	785	257	128	169	193	255	92	181	164	267	115
16 years and over	53 169	17 911	6 213	2 833	3 585	3 627	5 534	2 354	4 603	4 451	6 689	2 301
18 years and over	50 501	16 956	5 877	2 671	3 396	3 426	5 258	2 228	4 384	4 185	6 344	2 152
21 years and over	46 462	15 740	5 456	2 493	3 161	3 185	4 910	2 027	4 078	3 894	5 738	1 979
60 years and over	8 528	3 752	1 267	475	680	435	847	397	818	825	1 229	339
62 years and over	7 393	3 336	1 124	422	587	369	728	346	705	703	1 083	282
Median	29.9	30.3	29.4	29.1	29.9	27.5	30.0	28.9	30.9	31.9	28.6	26.6
Female	**36 561**	**12 414**	**4 389**	**1 972**	**2 597**	**2 641**	**3 917**	**1 621**	**3 183**	**3 151**	**4 606**	**1 626**
Under 5 years	2 513	880	349	138	197	223	299	103	194	183	316	142
5 to 9 years	2 962	1 044	350	182	197	259	359	137	226	215	369	148
10 to 14 years	3 075	1 003	384	162	218	256	326	119	257	256	373	141
15 to 19 years	3 312	1 113	404	187	228	231	289	159	277	292	443	[illegible]
20 to 24 years	3 018	955	342	160	196	205	307	151	264	256	443	
25 to 34 years	6 503	1 865	679	347	451	533	715	255	520	483	777	
35 to 44 years	4 933	1 499	535	257	343	362	546	201	403	425	541	
45 to 54 years	3 786	1 292	425	210	237	236	413	206	397	375	450	[illegible]
55 to 64 years	2 999	1 153	382	136	234	171	330	136	315	313	395	137
65 to 74 years	2 108	1 012	313	130	199	106	213	108	207	227	287	72
75 years and over	1 352	598	226	63	97	59	120	46	123	126	212	36
3 and 4 years	1 035	387	129	54	93	89	138	42	87	86	129	51
16 years and over	27 387	9 240	3 209	1 444	1 929	1 851	2 867	1 234	2 462	2 433	3 478	1 164
18 years and over	26 112	8 784	3 056	1 367	1 824	1 754	2 755	1 174	2 340	2 301	3 315	1 089
21 years and over	24 048	8 189	2 842	1 279	1 710	1 634	2 589	1 073	2 180	2 151	2 998	1 012
60 years and over	4 814	2 148	729	259	409	245	488	224	474	497	700	173
62 years and over	4 234	1 930	649	230	354	205	417	194	411	435	615	146
Median	30.5	31.5	30.4	29.5	30.8	27.8	30.5	31.0	32.0	32.8	29.5	27.0
HOUSEHOLD TYPE AND RELATIONSHIP												
Total persons	**72 222**	**24 416**	**8 605**	**3 909**	**4 961**	**5 220**	**7 664**	**3 186**	**6 133**	**5 918**	**9 045**	**3 273**
In households	70 639	24 230	8 473	3 909	4 944	5 220	7 664	3 186	6 117	5 916	8 652	3 273
Householder	23 665	8 270	2 891	1 291	1 693	1 652	2 585	1 133	2 132	2 162	2 944	1 054
Family householder	20 235	6 800	2 409	1 117	1 416	1 470	2 205	897	1 801	1 736	2 426	922
Nonfamily householder	3 430	1 470	482	174	277	182	380	236	331	426	518	132
Living alone	3 120	1 427	458	157	263	168	363	214	298	402	481	124
Spouse	18 062	5 838	2 068	989	1 222	1 350	1 984	739	1 548	1 435	2 091	811
Other relatives	28 186	9 925	3 440	1 577	1 983	2 178	3 044	1 273	2 375	2 261	3 476	1 374
Nonrelatives	726	197	74	52	46	40	51	41	62	58	141	34
Inmate of institution	337	140	65	-	17	-	-	-	16	-	68	-
Other, in group quarters	1 246	46	67	-	-	-	-	-	-	2	325	-
Persons per household	2.98	2.93	2.93	3.03	2.92	3.16	2.96	2.81	2.87	2.74	2.94	3.11
Persons per family	3.29	3.32	3.29	3.30	3.26	3.40	3.28	3.24	3.18	3.13	3.29	3.37
Persons 65 years and over	**5 949**	**2 762**	**923**	**339**	**490**	**287**	**573**	**268**	**563**	**557**	**840**	**204**
In households	5 653	2 641	847	339	490	287	573	268	554	557	797	204
Householder	3 614	1 799	574	209	340	178	384	187	351	381	540	140
Nonfamily householder	1 335	716	206	79	149	71	156	78	125	179	218	50
Living alone	1 282	706	203	78	144	69	155	77	120	176	214	49
Spouse	1 305	593	198	79	105	60	112	58	126	112	161	45
Other relatives	684	237	70	45	44	48	74	20	72	57	84	18
Nonrelatives	50	12	5	6	1	1	3	3	5	7	12	1
Inmate of institution	286	116	54	-	-	-	-	-	9	-	63	-
Other, in group quarters	10	5	22	-	-	-	-	-	-	-	-	-
FAMILY TYPE BY PRESENCE OF OWN CHILDREN												
Families	**20 235**	**6 800**	**2 409**	**1 117**	**1 416**	**1 470**	**2 205**	**897**	**1 801**	**1 736**	**2 426**	**922**
With own children under 18 years	11 078	3 619	1 309	618	749	895	1 245	490	931	928	1 323	518
Number of own children under 18 years	20 194	6 634	2 457	1 138	1 412	1 685	2 247	874	1 610	1 613	2 457	997
Married-couple families	**18 062**	**5 838**	**2 068**	**989**	**1 222**	**1 350**	**1 984**	**739**	**1 548**	**1 435**	**2 091**	**811**
With own children under 18 years	9 973	3 187	1 150	544	645	823	1 124	400	804	736	1 155	451
Number of own children under 18 years	18 325	5 875	2 169	1 017	1 209	1 558	2 018	731	1 406	1 322	2 164	892
Female householder, no husband present	**1 728**	**761**	**270**	**104**	**166**	**98**	**182**	**134**	**209**	**261**	**255**	**77**
With own children under 18 years	922	353	127	60	91	58	99	82	108	173	136	50
Number of own children under 18 years	1 572	640	238	101	180	105	189	131	176	268	232	80
MARITAL STATUS												
Male, 15 years and over	**26 464**	**8 945**	**3 088**	**1 430**	**1 695**	**1 821**	**2 741**	**1 149**	**2 199**	**2 080**	**3 309**	**1 167**
Single	6 086	2 076	653	306	308	336	535	238	429	438	869	235
Now married, except separated	18 585	6 051	2 136	1 018	1 265	1 375	2 015	769	1 591	1 469	2 157	834
Separated	181	99	29	14	28	11	20	23	25	13	23	19
Widowed	449	215	78	31	28	28	47	21	35	41	81	21
Divorced	1 163	504	192	61	66	71	124	98	119	119	179	58
Female, 15 years and over	**28 011**	**9 487**	**3 306**	**1 490**	**1 985**	**1 903**	**2 933**	**1 262**	**2 506**	**2 497**	**3 548**	**1 195**
Single	4 833	1 456	488	233	310	252	403	179	374	406	696	167
Now married, except separated	18 541	6 048	2 148	1 022	1 261	1 377	2 022	770	1 586	1 473	2 151	836
Separated	265	111	34	17	30	19	42	29	37	41	56	19
Widowed	2 731	1 308	437	139	243	149	297	136	291	337	453	112
Divorced	1 641	564	199	79	141	106	169	148	218	240	192	61

Table P-1. **General Characteristics of Persons: 1980**—Con.

[For meaning of symbols, see Introduction. For definitions of terms, see appendixes A and B]

Census Tracts	Walker County, Ga											Chattanooga city, Hamilton County, Tenn	
	Tract 0201	Tract 0202	Tract 0203	Tract 0204	Tract 0205	Tract 0206.01	Tract 0206.02	Tract 0207	Tract 0208	Tract 0209.01	Tract 0209.02	Tract 0001	Tract 0002
AGE													
Total persons	**7 328**	**4 061**	**9 239**	**2 837**	**11 456**	**3 629**	**2 515**	**7 840**	**2 550**	**3 791**	**1 224**	**3 370**	**1 666**
Under 5 years	531	278	658	209	982	293	175	639	222	266	85	248	142
5 to 9 years	526	266	725	217	1 003	326	199	659	213	328	99	225	145
10 to 14 years	549	232	760	251	989	322	223	663	239	333	107	235	162
15 to 19 years	649	307	856	222	1 016	286	253	686	260	340	130	257	189
20 to 24 years	598	335	824	174	982	246	199	574	173	279	87	279	144
25 to 34 years	1 060	562	1 389	418	1 873	630	369	1 177	412	511	159	465	230
35 to 44 years	893	385	1 241	396	1 419	503	322	880	316	464	168	272	152
45 to 54 years	864	504	1 063	257	1 079	344	295	758	235	444	109	340	183
55 to 64 years	787	513	909	346	1 030	351	230	841	242	327	127	442	145
65 to 74 years	554	419	534	234	669	215	169	646	153	291	97	340	115
75 years and over	317	260	280	113	414	113	81	317	85	208	56	267	59
3 and 4 years	229	106	267	91	382	115	58	200	75	100	31	88	50
16 years and over	5 585	3 227	6 919	2 104	8 257	2 619	1 860	5 740	1 817	2 786	906	2 613	1 173
18 years and over	5 332	3 109	6 555	1 997	7 830	2 513	1 749	5 455	1 708	2 644	846	2 497	1 101
21 years and over	4 950	2 902	6 058	1 908	7 265	2 349	1 635	5 076	1 580	2 454	781	2 351	999
60 years and over	1 237	928	1 249	496	1 552	504	357	1 355	352	668	220	830	242
62 years and over	1 076	829	1 079	428	1 352	434	319	1 173	317	611	190	749	215
Median	32.5	36.3	30.5	33.5	28.9	30.7	31.4	31.0	29.0	32.1	31.0	34.1	27.1
Female	**3 815**	**2 208**	**4 711**	**1 470**	**5 812**	**1 837**	**1 222**	**4 180**	**1 233**	**1 945**	**611**	**1 818**	**908**
Under 5 years	241	133	331	110	473	127	81	301	110	138	41	121	62
5 to 9 years	271	116	344	107	469	161	85	315	94	160	47	110	77
10 to 14 years	278	120	348	114	476	170	110	348	107	159	44	118	91
15 to 19 years	329	158	421	106	466	131	110	328	119	160	66	117	93
20 to 24 years	325	174	413	88	505	132	105	321	92	126	45	135	80
25 to 34 years	510	278	710	220	983	327	179	583	199	257	79	231	132
35 to 44 years	447	207	650	201	706	248	153	458	147	241	82	146	90
45 to 54 years	466	288	554	135	535	169	143	416	110	239	59	203	100
55 to 64 years	429	299	483	188	563	183	122	507	138	171	65	260	70
65 to 74 years	306	256	286	128	371	122	85	394	67	157	50	201	70
75 years and over	213	179	171	73	265	67	49	209	50	137	33	176	43
3 and 4 years	106	53	144	49	179	50	27	128	37	54	17	45	19
16 years and over	2 956	1 811	3 609	1 114	4 295	1 349	920	3 151	893	1 449	466	1 441	656
18 years and over	2 822	1 752	3 419	1 059	4 100	1 300	872	3 017	841	1 395	434	1 385	616
21 years and over	2 618	1 645	3 172	1 018	3 824	1 215	818	2 817	784	1 296	403	1 330	569
60 years and over	715	577	692	279	893	278	186	845	183	387	114	507	142
62 years and over	627	524	597	243	778	238	168	741	162	353	100	467	134
Median	33.9	41.0	31.9	34.4	30.1	31.3	32.5	33.0	29.7	33.6	32.6	39.7	28.6
HOUSEHOLD TYPE AND RELATIONSHIP													
Total persons	**7 328**	**4 061**	**9 239**	**2 837**	**11 456**	**3 629**	**2 515**	**7 840**	**2 550**	**3 791**	**1 224**	**3 370**	**1 666**
In households	7 225	3 961	9 239	2 837	11 445	3 629	2 515	7 799	2 550	3 686	1 224	3 370	1 666
Householder	2 592	1 588	3 207	1 029	3 815	1 226	861	2 826	816	1 252	422	1 289	515
Family householder	2 127	1 181	2 694	795	3 221	1 055	716	2 185	675	1 070	343	929	417
Nonfamily householder	465	407	513	234	594	171	145	641	141	182	79	360	98
Living alone	438	393	482	223	551	167	137	615	136	171	76	329	90
Spouse	1 832	953	2 372	718	2 830	948	638	1 711	614	941	306	661	256
Other relatives	2 728	1 363	3 577	1 063	4 679	1 438	992	3 185	1 107	1 466	480	1 349	863
Nonrelatives	73	57	83	27	121	17	24	77	13	27	16	71	32
Inmate of institution	92	100	-	-	-	-	-	37	-	105	-	-	-
Other, in group quarters	11	-	-	-	11	-	-	4	-	-	-	-	-
Persons per household	2.79	2.49	2.88	2.76	3.00	2.96	2.92	2.76	3.13	2.94	2.90	2.61	3.23
Persons per family	3.14	2.96	3.21	3.24	3.33	3.26	3.28	3.24	3.55	3.25	3.29	3.16	3.68
Persons 65 years and over	**871**	**679**	**814**	**347**	**1 083**	**328**	**250**	**963**	**238**	**499**	**153**	**607**	**174**
In households	787	586	814	347	1 083	328	250	963	238	401	153	607	174
Householder	528	396	518	240	712	214	158	699	158	261	103	417	105
Nonfamily householder	196	168	193	106	277	82	55	322	58	87	42	202	32
Living alone	193	165	189	104	271	81	53	313	58	85	41	189	30
Spouse	178	126	214	86	247	74	65	169	54	103	32	104	40
Other relatives	77	60	73	18	113	39	26	88	25	37	16	74	23
Nonrelatives	4	4	9	3	11	1	1	7	1	-	2	12	6
Inmate of institution	84	93	-	-	-	-	-	-	-	98	-	-	-
Other, in group quarters	-	-	-	-	-	-	-	-	-	-	-	-	-
FAMILY TYPE BY PRESENCE OF OWN CHILDREN													
Families	**2 127**	**1 181**	**2 694**	**795**	**3 221**	**1 055**	**716**	**2 185**	**675**	**1 070**	**343**	**929**	**417**
With own children under 18 years	970	490	1 352	406	1 757	567	383	1 111	388	555	183	384	221
Number of own children under 18 years	1 800	845	2 426	789	3 302	1 015	701	2 089	765	1 041	345	725	455
Married-couple families	**1 832**	**953**	**2 372**	**718**	**2 830**	**948**	**638**	**1 711**	**614**	**941**	**306**	**661**	**256**
With own children under 18 years	840	389	1 188	368	1 567	526	341	876	364	496	172	267	130
Number of own children under 18 years	1 584	672	2 165	715	2 948	947	633	1 652	717	937	329	503	273
Female householder, no husband present	**238**	**195**	**265**	**61**	**313**	**78**	**60**	**413**	**48**	**96**	**31**	**228**	**141**
With own children under 18 years	110	87	143	32	164	31	35	210	17	46	11	103	86
Number of own children under 18 years	183	151	229	58	314	52	59	391	36	85	16	200	173
MARITAL STATUS													
Male, 15 years and over	**2 697**	**1 446**	**3 408**	**1 021**	**4 088**	**1 309**	**972**	**2 663**	**954**	**1 376**	**454**	**1 193**	**539**
Single	508	267	709	221	866	243	205	601	233	290	99	313	185
Now married, except separated	1 901	996	2 436	732	2 916	970	660	1 778	631	975	316	692	268
Separated	35	17	48	9	45	11	18	56	10	10	7	27	16
Widowed	67	43	56	29	78	25	20	61	29	40	12	60	20
Divorced	186	123	159	30	183	60	69	167	51	61	20	101	50
Female, 15 years and over	**3 025**	**1 839**	**3 688**	**1 139**	**4 394**	**1 379**	**946**	**3 216**	**922**	**1 488**	**479**	**1 469**	**678**
Single	443	241	531	168	632	169	136	463	152	177	74	233	191
Now married, except separated	1 888	1 008	2 428	733	2 903	975	650	1 777	632	977	316	688	270
Separated	57	32	56	8	75	15	21	99	17	25	6	27	33
Widowed	433	362	393	148	534	150	89	572	93	226	58	328	100
Divorced	204	196	280	82	250	70	50	305	28	83	25	193	84

Table P-1. General Characteristics of Persons: 1980—Con.

[For meaning of symbols, see Introduction. For definitions of terms, see appendixes A and B]

Census Tracts	Chattanooga city, Hamilton County, Tenn.—Con.												
	Tract 0003	Tract 0004	Tract 0005	Tract 0006	Tract 0007	Tract 0008	Tract 0009	Tract 0010	Tract 0011	Tract 0012	Tract 0013	Tract 0014	Tract 0015
AGE													
Total persons	**3 463**	**4 847**	**954**	**3 369**	**3 945**	**1 913**	**459**	**2 149**	**2 611**	**4 634**	**3 283**	**4 495**	**1 832**
Under 5 years	354	363	40	254	226	153	3	89	194	381	286	254	93
5 to 9 years	450	373	29	232	196	136	1	69	163	414	277	167	82
10 to 14 years	454	348	33	208	212	143	–	56	126	360	196	166	109
15 to 19 years	404	408	62	249	243	160	12	461	188	422	366	1 052	128
20 to 24 years	280	471	97	335	337	185	110	581	302	433	382	1 249	140
25 to 34 years	485	718	168	570	761	260	203	297	439	748	530	561	199
35 to 44 years	276	369	86	279	344	173	58	119	162	412	264	231	168
45 to 54 years	228	501	122	322	416	209	33	110	270	437	254	222	224
55 to 64 years	248	526	134	360	452	226	26	155	287	370	287	222	270
65 to 74 years	172	500	103	312	467	182	11	126	278	358	238	231	263
75 years and over	112	270	80	248	291	86	2	86	202	299	203	140	156
3 and 4 years	138	131	20	91	83	59	–	30	77	145	107	91	29
16 years and over	2 120	3 694	839	2 623	3 267	1 445	455	1 922	2 103	3 399	2 449	3 871	1 534
18 years and over	1 933	3 527	814	2 530	3 158	1 385	452	1 886	2 030	3 217	2 285	3 760	1 483
21 years and over	1 752	3 259	774	2 369	3 018	1 294	432	1 290	1 891	2 981	2 096	2 462	1 389
60 years and over	401	1 040	236	733	970	379	26	299	636	827	561	485	561
62 years and over	352	938	220	667	880	329	22	260	562	753	516	437	501
Median	21.3	30.3	40.6	31.6	34.9	31.5	28.6	22.4	31.9	28.3	26.9	21.6	44.8
Female	**1 953**	**2 562**	**489**	**1 829**	**2 168**	**997**	**216**	**1 068**	**1 397**	**2 602**	**1 653**	**2 449**	**915**
Under 5 years	185	161	25	125	105	64	2	37	97	184	151	130	42
5 to 9 years	200	177	16	116	102	65	–	25	73	179	144	75	40
10 to 14 years	226	157	17	104	106	68	–	24	67	175	91	86	53
15 to 19 years	196	194	35	121	124	77	10	247	101	217	94	611	59
20 to 24 years	174	245	50	170	173	101	57	277	164	235	189	678	66
25 to 34 years	321	348	66	289	387	132	89	130	184	424	269	258	93
35 to 44 years	182	207	43	141	189	87	21	58	82	246	120	116	78
45 to 54 years	137	295	59	186	237	107	20	65	151	269	144	129	114
55 to 64 years	152	312	54	212	254	124	8	74	162	228	161	132	125
65 to 74 years	100	301	65	193	295	106	7	71	163	222	148	139	150
75 years and over	80	165	59	172	196	66	2	60	153	223	142	95	95
3 and 4 years	71	53	12	46	37	22	–	8	46	71	60	46	17
16 years and over	1 307	2 037	425	1 465	1 838	788	214	977	1 146	2 027	1 252	2 139	774
18 years and over	1 217	1 948	411	1 418	1 776	757	212	956	1 106	1 938	1 216	2 076	748
21 years and over	1 116	1 819	388	1 333	1 704	706	200	640	1 031	1 807	1 135	1 310	711
60 years and over	246	623	149	466	611	230	13	169	399	551	364	314	306
62 years and over	217	565	142	431	561	206	11	153	355	511	335	282	283
Median	24.9	35.0	43.9	34.6	39.2	34.1	27.2	22.4	36.0	31.6	29.9	21.5	47.8
HOUSEHOLD TYPE AND RELATIONSHIP													
Total persons	**3 463**	**4 847**	**954**	**3 369**	**3 945**	**1 913**	**459**	**2 149**	**2 611**	**4 634**	**3 283**	**4 495**	**1 832**
In households	3 463	4 720	919	3 333	3 938	1 887	455	1 362	2 591	4 358	3 055	2 670	1 694
Householder	1 074	1 826	491	1 381	1 739	730	326	667	1 055	1 506	1 127	983	790
Family householder	824	1 240	193	873	1 135	492	77	249	659	1 133	803	669	337
Nonfamily householder	250	586	298	508	604	238	249	418	396	373	324	314	453
Living alone	235	527	265	444	542	218	207	354	338	325	268	261	400
Spouse	321	634	115	632	908	312	61	133	438	581	606	490	149
Other relatives	1 984	2 127	241	1 188	1 185	802	22	431	965	2 126	1 208	1 084	612
Nonrelatives	84	133	72	132	106	43	46	131	133	145	114	113	143
Inmate of institution	–	74	–	13	7	–	–	14	17	272	34	41	28
Other, in group quarters	–	53	35	23	–	26	4	773	3	4	194	1 784	110
Persons per household	3.22	2.58	1.87	2.41	2.26	2.58	1.40	2.04	2.46	2.89	2.71	2.72	2.14
Persons per family	3.80	3.23	2.84	3.08	2.84	3.26	2.08	3.27	3.13	3.39	3.26	3.35	3.26
Persons 65 years and over	**284**	**770**	**183**	**560**	**758**	**268**	**13**	**212**	**480**	**657**	**441**	**371**	**419**
In households	284	755	183	560	758	268	13	211	477	452	407	371	410
Householder	210	524	131	387	509	189	11	164	324	303	269	257	313
Nonfamily householder	117	217	90	186	241	88	8	119	174	117	124	120	212
Living alone	112	204	78	180	236	85	8	106	149	101	113	109	194
Spouse	42	136	21	110	170	41	1	14	70	77	71	65	43
Other relatives	26	83	21	59	72	36	1	20	73	55	55	42	34
Nonrelatives	6	12	10	4	7	2	–	13	10	17	12	7	20
Inmate of institution	–	5	–	–	–	–	–	1	3	205	34	–	1
Other, in group quarters	–	10	–	–	–	–	–	–	–	–	–	–	8
FAMILY TYPE BY PRESENCE OF OWN CHILDREN													
Families	**824**	**1 240**	**193**	**873**	**1 135**	**492**	**77**	**249**	**659**	**1 133**	**803**	**669**	**337**
With own children under 18 years	544	538	47	353	414	209	3	98	257	616	365	304	109
Number of own children under 18 years	1 297	1 025	114	703	690	418	3	168	474	1 154	724	605	220
Married-couple families	**321**	**634**	**115**	**632**	**908**	**312**	**61**	**133**	**438**	**581**	**606**	**490**	**149**
With own children under 18 years	160	236	17	251	312	125	1	49	175	270	275	231	36
Number of own children under 18 years	340	469	43	508	531	254	1	80	324	544	553	464	68
Female householder, no husband present	**445**	**510**	**57**	**202**	**197**	**145**	**9**	**77**	**179**	**493**	**160**	**145**	**156**
With own children under 18 years	367	272	26	90	92	74	2	32	67	322	81	67	64
Number of own children under 18 years	919	508	62	174	143	152	2	59	122	573	154	130	134
MARITAL STATUS													
Male, 15 years and over	**863**	**1 696**	**421**	**1 191**	**1 456**	**681**	**241**	**953**	**968**	**1 415**	**1 257**	**1 750**	**768**
Single	367	594	158	326	344	203	107	635	302	549	464	1 078	256
Now married, except separated	348	718	131	666	942	339	64	167	474	623	633	524	171
Separated	37	85	16	21	18	18	9	41	49	49	34	31	111
Widowed	45	96	30	39	40	17	–	35	54	54	34	29	80
Divorced	66	203	86	139	112	104	61	75	89	140	92	88	150
Female, 15 years and over	**1 342**	**2 067**	**431**	**1 484**	**1 855**	**800**	**214**	**982**	**1 160**	**2 064**	**1 267**	**2 158**	**780**
Single	461	529	139	281	356	152	106	608	259	611	240	1 293	190
Now married, except separated	352	681	119	666	937	340	63	157	465	638	633	522	168
Separated	116	133	13	47	18	22	2	21	44	107	33	34	90
Widowed	198	440	98	275	303	158	8	96	275	396	229	186	241
Divorced	215	284	62	215	241	128	35	100	117	312	132	123	91

Table P-1. **General Characteristics of Persons: 1980**—Con.

[For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B]

Census Tracts	Chattanooga city, Hamilton County, Tenn.—Con.												
	Tract 0016	Tract 0018	Tract 0019	Tract 0020	Tract 0021	Tract 0022	Tract 0023	Tract 0024	Tract 0025	Tract 0026	Tract 0027	Tract 0028	Tract 0029
AGE													
Total persons	**3 060**	**4 067**	**7 515**	**1 726**	**1 379**	**167**	**1 925**	**4 705**	**5 064**	**1 657**	**1 162**	**3 398**	**2 636**
Under 5 years	219	293	764	117	106	15	161	321	419	164	99	171	193
5 to 9 years	223	288	836	140	69	13	157	323	401	140	75	160	160
10 to 14 years	233	251	863	232	79	16	157	305	382	119	96	146	128
15 to 19 years	194	319	920	247	112	10	168	319	373	128	95	178	157
20 to 24 years	186	433	722	143	115	16	142	408	419	147	132	293	294
25 to 34 years	324	618	941	127	159	26	290	663	710	231	170	602	530
35 to 44 years	136	341	574	121	119	9	191	401	425	148	83	286	227
45 to 54 years	172	409	582	138	182	17	197	512	501	169	120	268	215
55 to 64 years	274	454	576	155	194	18	205	640	608	156	135	416	263
65 to 74 years	564	397	473	196	169	15	178	525	484	169	104	485	271
75 years and over	535	264	264	110	75	12	79	288	342	86	53	393	198
3 and 4 years	91	105	282	37	41	4	74	134	165	67	34	56	69
16 years and over	2 349	3 155	4 892	1 189	1 105	122	1 421	3 696	3 780	1 208	878	2 890	2 120
18 years and over	2 267	3 030	4 513	1 076	1 060	117	1 361	3 571	3 642	1 158	845	2 822	2 049
21 years and over	2 152	2 822	3 964	952	991	111	1 246	3 353	3 418	1 077	774	2 703	1 952
60 years and over	1 247	887	1 032	378	337	34	352	1 125	1 135	337	234	1 071	620
62 years and over	1 199	770	910	361	297	29	311	1 001	1 017	307	203	985	563
Median	46.1	30.8	22.4	24.4	40.0	29.4	31.1	35.3	31.6	30.7	29.8	40.1	31.0
Female	**2 123**	**2 156**	**4 288**	**1 006**	**677**	**76**	**1 040**	**2 503**	**2 805**	**882**	**602**	**1 849**	**1 466**
Under 5 years	112	141	357	71	57	7	81	148	225	76	52	73	95
5 to 9 years	111	135	410	69	38	3	94	157	182	75	30	67	91
10 to 14 years	113	99	472	124	40	2	83	161	181	61	42	64	60
15 to 19 years	97	171	477	121	52	5	82	150	172	54	49	85	73
20 to 24 years	117	225	420	78	61	9	76	208	218	79	64	150	161
25 to 34 years	219	294	564	79	73	12	143	331	408	114	74	284	257
35 to 44 years	99	187	392	85	49	7	88	199	217	78	42	146	124
45 to 54 years	138	229	382	95	87	4	114	285	282	85	70	145	115
55 to 64 years	209	254	368	88	82	11	124	370	358	95	74	239	161
65 to 74 years	459	242	293	118	89	9	110	310	318	108	72	317	181
75 years and over	449	179	153	78	49	7	45	184	244	57	33	279	148
3 and 4 years	42	49	132	17	25	3	38	52	90	30	18	25	34
16 years and over	1 770	1 730	2 971	717	533	63	770	2 008	2 180	660	474	1 631	1 204
18 years and over	1 733	1 661	2 774	667	511	62	740	1 953	2 119	638	453	1 601	1 172
21 years and over	1 665	1 566	2 482	598	476	57	677	1 842	2 014	604	415	1 541	1 114
60 years and over	1 022	552	623	233	182	20	214	681	743	215	147	697	422
62 years and over	983	492	547	221	166	18	185	595	678	198	134	652	386
Median	58.1	35.8	25.1	30.0	39.9	36.0	32.2	39.9	35.6	33.3	33.5	49.1	34.7
HOUSEHOLD TYPE AND RELATIONSHIP													
Total persons	**3 060**	**4 067**	**7 515**	**1 726**	**1 379**	**167**	**1 925**	**4 705**	**5 064**	**1 657**	**1 162**	**3 398**	**2 636**
In households	3 060	4 067	7 430	1 720	1 343	151	1 925	4 705	5 000	1 638	1 162	3 384	2 610
Householder	1 774	1 551	2 282	617	550	55	701	1 867	2 048	583	441	1 581	1 156
Family householder	590	1 100	1 785	327	290	32	534	1 336	1 366	444	295	945	711
Nonfamily householder	1 184	451	497	290	260	23	167	531	682	139	146	636	445
Living alone	1 173	403	465	251	202	19	153	489	635	125	135	561	396
Spouse	165	807	622	87	131	15	368	1 031	904	327	208	766	561
Other relatives	1 073	1 592	4 401	938	520	76	821	1 728	1 945	701	479	927	793
Nonrelatives	48	117	125	78	142	5	35	79	103	27	34	110	100
Inmate of institution	-	-	75	-	15	16	-	-	-	-	-	-	9
Other, in group quarters	-	-	10	6	21	-	-	-	64	19	-	14	17
Persons per household	1.72	2.62	3.26	2.79	2.44	2.75	2.75	2.52	2.44	2.81	2.63	2.14	2.26
Persons per family	3.10	3.18	3.81	4.13	3.24	3.84	3.23	3.07	3.09	3.32	3.33	2.79	2.90
Persons 65 years and over	**1 099**	**661**	**737**	**306**	**244**	**27**	**257**	**813**	**826**	**255**	**157**	**878**	**469**
In households	1 099	661	691	304	244	27	257	813	826	255	157	866	468
Householder	1 010	449	498	256	171	19	183	557	614	167	113	603	336
Nonfamily householder	893	209	209	183	86	10	67	243	339	65	56	312	187
Living alone	889	202	203	169	72	8	65	231	331	62	53	296	178
Spouse	49	120	103	18	36	2	51	164	139	58	30	173	98
Other relatives	36	83	88	13	20	3	21	79	67	28	13	78	24
Nonrelatives	4	9	2	17	17	3	2	13	6	2	1	12	10
Inmate of institution	-	-	46	-	-	-	-	-	-	-	-	-	-
Other, in group quarters	-	-	-	2	-	-	-	-	-	-	-	12	1
FAMILY TYPE BY PRESENCE OF OWN CHILDREN													
Families	**590**	**1 100**	**1 785**	**327**	**290**	**32**	**534**	**1 336**	**1 366**	**444**	**295**	**945**	**711**
With own children under 18 years	353	452	1 006	163	107	12	243	513	617	208	125	298	309
Number of own children under 18 years	672	882	2 361	458	218	29	483	974	1 223	438	251	528	512
Married-couple families	**165**	**807**	**622**	**87**	**131**	**15**	**368**	**1 031**	**904**	**327**	**208**	**766**	**561**
With own children under 18 years	60	327	243	22	38	5	172	414	344	154	89	240	217
Number of own children under 18 years	115	650	524	56	85	14	353	794	666	337	180	442	369
Female householder, no husband present	**407**	**238**	**1 079**	**213**	**119**	**14**	**141**	**253**	**413**	**102**	**73**	**154**	**131**
With own children under 18 years	286	105	732	136	58	5	66	89	253	52	33	52	84
Number of own children under 18 years	546	199	1 778	393	110	13	123	166	530	97	68	78	131
MARITAL STATUS													
Male, 15 years and over	**598**	**1 454**	**2 003**	**495**	**583**	**59**	**668**	**1 719**	**1 645**	**564**	**414**	**1 276**	**935**
Single	214	401	954	243	200	22	163	363	422	143	110	315	254
Now married, except separated	177	845	669	98	151	17	391	1 087	962	346	222	787	582
Separated	32	26	91	33	66	3	14	39	50	8	17	8	11
Widowed	71	59	111	60	51	6	21	61	68	15	15	51	19
Divorced	104	123	178	61	115	11	79	169	143	52	50	115	69
Female, 15 years and over	**1 787**	**1 781**	**3 049**	**742**	**542**	**64**	**782**	**2 037**	**2 217**	**670**	**478**	**1 643**	**1 220**
Single	408	384	1 119	267	141	19	123	261	387	83	76	314	241
Now married, except separated	179	858	693	103	145	17	393	1 087	940	348	223	791	585
Separated	110	40	269	68	63	3	22	39	101	22	18	10	24
Widowed	820	334	516	211	140	18	144	393	511	134	102	386	211
Divorced	270	165	452	93	53	7	100	257	278	83	59	144	159

Table P-1. General Characteristics of Persons: 1980—Con.

[For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B]

Census Tracts	Chattanooga city, Hamilton County, Tenn.—Con												
	Tract 0030	Tract 0031	Tract 0032	Tract 0033*	Tract 0034	Tract 0104.02*	Tract 0104.03*	Tract 0105.01*	Tract 0105.02*	Tract 0107*	Tract 0109*	Tract 0113.01*	Tract 0113.02*
AGE													
Total persons	**2 372**	**872**	**5 530**	**6 212**	**3 795**	**5 404**	**13 736**	**5 398**	**2 386**	**28**	**5 420**	**1 868**	**5 447**
Under 5 years	156	–	414	455	234	383	928	352	138	1	352	45	361
5 to 9 years	110	1	453	436	204	388	1 083	400	127	1	305	68	420
10 to 14 years	93	3	550	425	183	407	1 275	404	137	4	300	89	404
15 to 19 years	118	48	621	484	234	505	1 323	413	171	1	351	122	470
20 to 24 years	194	134	418	573	515	488	1 042	508	198	2	731	119	434
25 to 34 years	381	131	778	1 060	742	1 022	2 469	983	388	4	1 227	219	860
35 to 44 years	191	48	671	576	336	777	2 118	627	218	3	589	176	721
45 to 54 years	250	38	579	770	344	719	1 783	770	342	5	528	158	735
55 to 64 years	351	77	465	725	489	380	1 066	605	334	6	509	184	561
65 to 74 years	332	138	382	462	355	206	446	240	224	1	345	217	300
75 years and over	196	254	199	246	159	129	203	96	109	–	183	471	181
3 and 4 years	57	–	157	141	92	140	374	156	57	–	135	23	150
16 years and over	1 987	868	3 992	4 801	3 132	4 136	10 158	4 154	1 955	22	4 387	1 643	4 158
18 years and over	1 946	865	3 714	4 583	3 041	3 914	9 587	3 980	1 872	22	4 256	1 603	3 966
21 years and over	1 863	789	3 405	4 308	2 861	3 633	8 926	3 714	1 782	21	4 014	1 519	3 707
60 years and over	704	440	809	1 025	776	487	1 037	582	465	4	736	773	710
62 years and over	622	424	711	890	664	425	863	473	408	3	643	735	612
Median	42.4	60.6	29.0	31.3	31.4	29.9	30.2	30.9	36.6	38.0	29.5	50.9	32.4
Female	**1 350**	**281**	**3 000**	**3 296**	**2 047**	**2 711**	**6 981**	**2 800**	**1 237**	**15**	**2 821**	**975**	**2 796**
Under 5 years	78	–	180	209	100	177	454	186	65	–	181	22	170
5 to 9 years	65	1	247	213	100	178	532	194	56	1	146	41	211
10 to 14 years	47	2	266	191	106	200	637	200	66	3	145	48	203
15 to 19 years	64	–	323	245	132	250	641	206	72	–	176	34	242
20 to 24 years	108	5	229	302	274	243	539	267	103	–	398	36	2[illegible]
25 to 34 years	188	5	439	537	360	495	1 264	502	202	2	605	85	4[illegible]
35 to 44 years	107	2	377	319	174	419	1 104	331	117	2	282	81	379
45 to 54 years	146	7	322	439	186	348	870	409	188	4	260	67	373
55 to 64 years	209	49	257	400	291	189	547	320	173	2	281	83	289
65 to 74 years	205	104	233	274	221	126	252	125	125	1	228	129	170
75 years and over	133	206	127	167	103	86	141	60	70	–	119	349	99
3 and 4 years	29	–	64	69	40	66	184	85	26	–	65	13	68
16 years and over	1 149	378	2 246	2 634	1 720	2 106	5 208	2 180	1 037	11	2 306	858	2 160
18 years and over	1 124	378	2 110	2 539	1 670	2 003	4 934	2 097	1 002	11	2 238	841	2 059
21 years and over	1 077	378	1 933	2 383	1 569	1 863	4 618	1 956	963	11	2 117	824	1 930
60 years and over	441	345	492	619	483	291	584	314	270	2	467	523	388
62 years and over	392	334	435	583	419	265	498	257	238	2	406	500	335
Median	46.5	75.9	30.7	33.7	33.1	30.9	30.7	31.6	40.1	40.5	29.8	64.1	33.2
HOUSEHOLD TYPE AND RELATIONSHIP													
Total persons	**2 372**	**872**	**5 530**	**6 212**	**3 795**	**5 404**	**13 736**	**5 398**	**2 386**	**28**	**5 420**	**1 868**	**5 447**
In households	2 372	393	5 528	6 212	3 782	5 404	13 630	5 396	2 356	28	5 073	827	5 447
Householder	1 020	349	1 789	2 296	1 766	1 945	4 752	1 964	933	12	2 284	282	1 851
Family householder	735	34	1 391	1 756	1 050	1 556	3 929	1 621	734	7	1 384	237	1 634
Nonfamily householder	285	315	398	540	716	389	823	343	199	5	900	45	217
Living alone	259	312	370	498	624	324	720	303	185	4	775	41	203
Spouse	600	25	979	1 393	801	1 371	3 423	1 410	651	6	1 124	192	1 462
Other relatives	704	15	2 661	2 408	1 070	1 975	5 267	1 938	749	9	1 485	344	2 092
Nonrelatives	48	4	99	115	145	113	188	84	23	1	180	9	42
Inmate of institution	–	414	–	–	–	–	100	–	30	–	347	1 041	–
Other, in group quarters	–	65	2	–	13	–	6	2	–	–	–	–	–
Persons per household	2.33	1.13	3.09	2.71	2.14	2.78	2.87	2.75	2.53	2.33	2.22	2.93	2.94
Persons per family	2.77	2.18	3.62	3.16	2.78	3.15	3.21	3.07	2.91	3.14	2.89	3.26	3.18
Persons 65 years and over	**528**	**392**	**581**	**708**	**514**	**335**	**649**	**336**	**333**	**1**	**528**	**688**	**481**
In households	528	305	581	708	514	335	646	335	333	1	490	79	481
Householder	341	279	383	471	369	205	391	211	212	1	343	58	279
Nonfamily householder	129	255	184	198	172	98	151	61	75	1	168	19	78
Living alone	127	253	180	193	166	93	149	61	75	1	163	19	78
Spouse	124	17	99	156	101	67	143	83	94	–	96	17	124
Other relatives	60	6	83	78	40	55	106	40	27	–	49	4	75
Nonrelatives	3	3	16	3	4	8	6	1	–	–	2	–	3
Inmate of institution	–	82	–	–	–	–	–	–	–	–	38	609	–
Other, in group quarters	–	5	–	–	–	–	3	1	–	–	–	–	–
FAMILY TYPE BY PRESENCE OF OWN CHILDREN													
Families	**735**	**34**	**1 391**	**1 756**	**1 050**	**1 556**	**3 929**	**1 621**	**734**	**7**	**1 384**	**237**	**1 634**
With own children under 18 years	232	–	722	776	420	843	2 211	754	284	3	581	116	811
Number of own children under 18 years	387	–	1 507	1 442	680	1 419	3 870	1 305	490	6	986	215	1 383
Married-couple families	**600**	**25**	**979**	**1 393**	**801**	**1 371**	**3 423**	**1 410**	**651**	**6**	**1 124**	**192**	**1 462**
With own children under 18 years	195	–	493	579	273	738	1 888	635	247	2	444	99	726
Number of own children under 18 years	324	–	1 036	1 121	457	1 254	3 367	1 117	440	5	773	183	1 261
Female householder, no husband present	**119**	**6**	**366**	**310**	**224**	**147**	**415**	**179**	**69**	**1**	**209**	**32**	**147**
With own children under 18 years	35	–	212	180	137	87	276	102	33	1	117	11	75
Number of own children under 18 years	60	–	435	289	211	140	433	165	45	1	184	18	110
MARITAL STATUS													
Male, 15 years and over	**853**	**490**	**1 806**	**2 213**	**1 433**	**2 078**	**5 092**	**2 022**	**934**	**11**	**2 114**	**802**	**2 050**
Single	152	293	565	556	375	508	1 191	448	223	4	580	256	407
Now married, except separated	618	104	1 017	1 426	838	1 402	3 513	1 441	659	6	1 188	291	1 504
Separated	11	8	39	24	23	17	41	21	6	–	37	55	11
Widowed	18	41	60	36	21	29	40	16	14	1	43	108	31
Divorced	54	44	125	171	176	114	307	96	32	–	266	92	97
Female, 15 years and over	**1 160**	**378**	**2 307**	**2 683**	**1 741**	**2 156**	**5 258**	**2 230**	**1 050**	**11**	**2 349**	**864**	**2 212**
Single	181	54	607	525	333	367	971	361	170	–	481	142	336
Now married, except separated	618	34	1 026	1 431	826	1 398	3 490	1 452	659	6	1 180	277	1 508
Separated	7	14	69	43	18	21	50	18	7	–	44	24	19
Widowed	235	241	329	384	277	195	374	177	125	2	308	362	189
Divorced	119	35	276	300	287	175	473	212	89	3	336	59	160

Table P-1. **General Characteristics of Persons: 1980**—Con.

(For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B)

Census Tracts	Chattanooga city, Hamilton County, Tenn.—Con.						East Ridge city, Hamilton County, Tenn.					Middle Valley (CDP), Hamilton County, Tenn.	
	Tract 0114.01*	Tract 0114.02	Tract 0114.03*	Tract 0114.04*	Tract 0115	Tract 0121*	Tract 0114.04*	Tract 0116	Tract 0117	Tract 0118	Tract 0119	Tract 0104.01*	Tract 0104.03*
AGE													
Total persons	**3 415**	**5 739**	**6 917**	**6 205**	**2 156**	**5 214**	**1 542**	**6 101**	**4 524**	**7 187**	**1 882**	**10 369**	**1 051**
Under 5 years	221	366	497	388	134	365	99	362	182	314	106	910	122
5 to 9 years	275	424	558	423	167	378	122	398	223	395	88	1 104	108
10 to 14 years	265	484	630	469	154	455	132	421	265	522	92	1 042	97
15 to 19 years	272	572	636	509	172	466	162	423	367	654	116	881	78
20 to 24 years	325	542	556	495	176	415	139	569	400	617	238	643	60
25 to 34 years	577	889	1 178	959	322	819	231	1 005	736	964	432	2 314	239
35 to 44 years	431	755	893	735	197	710	245	673	473	918	164	1 611	176
45 to 54 years	407	815	830	858	233	689	215	717	545	1 026	215	929	90
55 to 64 years	390	520	573	733	283	496	107	735	668	943	227	499	49
65 to 74 years	176	273	361	434	164	291	60	455	454	582	142	292	17
75 years and over	76	99	205	202	154	130	30	343	211	252	62	144	15
3 and 4 years	69	136	185	140	52	139	40	143	73	124	38	383	56
16 years and over	2 594	4 356	5 094	4 840	1 664	3 930	1 150	4 846	3 786	5 831	1 577	7 123	711
18 years and over	2 499	4 093	4 812	4 617	1 594	3 722	1 083	4 679	3 637	5 551	1 529	6 716	675
21 years and over	2 336	3 773	4 477	4 308	1 503	3 465	1 009	4 407	3 412	5 170	1 446	6 304	636
60 years and over	411	588	822	955	450	624	122	1 136	969	1 261	313	647	55
62 years and over	339	487	697	814	391	528	105	1 006	831	1 058	265	551	43
Median	30.4	30.3	30.1	33.5	33.4	31.2	30.5	33.3	37.0	36.8	30.8	28.2	27.8
Female	**1 769**	**2 972**	**3 596**	**3 207**	**1 127**	**2 672**	**793**	**3 252**	**2 484**	**3 832**	**1 021**	**5 187**	**520**
Under 5 years	117	186	246	191	64	174	54	178	93	139	53	431	52
5 to 9 years	126	213	258	200	89	187	66	193	121	207	48	536	52
10 to 14 years	128	239	314	202	79	228	57	209	130	252	47	498	50
15 to 19 years	129	266	326	265	77	219	75	200	183	304	55	413	42
20 to 24 years	184	278	293	256	81	211	74	306	221	319	136	349	27
25 to 34 years	313	470	618	492	162	422	118	498	377	521	221	1 225	127
35 to 44 years	224	420	489	393	101	375	135	357	263	511	84	773	83
45 to 54 years	224	419	422	459	124	358	108	406	309	551	130	857	45
55 to 64 years	191	269	296	385	145	250	53	397	371	520	129	244	22
65 to 74 years	90	144	210	243	88	167	34	253	274	337	80	172	11
75 years and over	43	68	124	121	117	81	19	255	142	171	38	89	9
3 and 4 years	39	66	95	70	26	77	17	69	41	54	19	185	21
16 years and over	1 377	2 280	2 701	2 574	882	2 038	599	2 644	2 107	3 174	862	3 639	358
18 years and over	1 334	2 169	2 560	2 460	847	1 943	559	2 564	2 024	3 043	843	3 448	338
21 years and over	1 243	1 999	2 391	2 297	805	1 826	530	2 424	1 910	2 861	799	3 250	322
60 years and over	214	324	468	521	275	347	69	689	578	732	173	355	29
62 years and over	174	274	399	452	243	294	59	621	499	634	149	310	25
Median	30.2	31.3	30.8	34.9	36.7	32.4	31.2	35.9	39.4	38.7	31.7	28.5	27.9
HOUSEHOLD TYPE AND RELATIONSHIP													
Total persons	**3 415**	**5 739**	**6 917**	**6 205**	**2 156**	**5 214**	**1 542**	**6 101**	**4 524**	**7 187**	**1 882**	**10 369**	**1 051**
In households	3 415	5 739	6 690	6 153	2 071	5 198	1 542	5 946	4 524	7 185	1 882	10 369	1 051
Householder	1 222	1 891	2 256	2 270	732	1 820	500	2 379	1 881	2 772	845	3 210	317
Family householder	1 014	1 653	1 888	1 808	582	1 522	454	1 795	1 364	2 229	569	2 934	295
Nonfamily householder	208	238	368	462	150	298	46	584	517	543	276	276	22
Living alone	160	207	319	415	138	283	40	539	461	493	236	254	17
Spouse	873	1 400	1 591	1 542	469	1 303	390	1 503	1 110	1 868	483	2 685	273
Other relatives	1 229	2 364	2 726	2 244	844	2 035	626	1 964	1 424	2 435	499	4 397	451
Nonrelatives	91	84	117	97	26	40	26	100	109	110	55	77	10
Inmate of institution	-	-	118	52	81	-	-	122	-	-	-	-	-
Other, in group quarters	-	-	109	-	4	16	-	33	-	2	-	-	-
Persons per household	2.79	3.03	2.97	2.71	2.83	2.86	3.08	2.50	2.41	2.59	2.23	3.23	3.32
Persons per family	3.07	3.28	3.29	3.09	3.26	3.19	3.24	2.93	2.86	2.93	2.73	3.41	3.45
Persons 65 years and over	**252**	**372**	**566**	**636**	**318**	**621**	**90**	**798**	**665**	**834**	**204**	**436**	**32**
In households	252	372	491	634	238	419	90	681	665	834	204	436	32
Householder	152	212	275	370	151	281	48	455	408	531	140	249	19
Nonfamily householder	41	59	92	108	51	121	10	195	153	214	54	93	7
Living alone	41	54	84	102	48	119	10	188	152	207	52	91	7
Spouse	61	85	116	160	52	96	24	156	153	195	49	109	7
Other relatives	37	73	91	102	31	41	18	67	101	101	13	74	6
Nonrelatives	2	2	9	2	4	1	-	3	3	7	2	4	-
Inmate of institution	-	-	30	2	80	-	-	112	-	-	-	-	-
Other, in group quarters	-	-	45	-	-	2	-	5	-	-	-	-	-
FAMILY TYPE BY PRESENCE OF OWN CHILDREN													
Families	**1 014**	**1 653**	**1 888**	**1 808**	**582**	**1 522**	**454**	**1 795**	**1 364**	**2 229**	**569**	**2 934**	**295**
With own children under 18 years	460	855	1 023	789	263	778	253	781	493	937	206	1 927	188
Number of own children under 18 years	845	1 482	1 826	1 414	489	1 356	432	1 298	811	1 539	318	3 460	358
Married-couple families	**873**	**1 400**	**1 591**	**1 542**	**469**	**1 303**	**390**	**1 503**	**1 110**	**1 868**	**483**	**2 685**	**273**
With own children under 18 years	372	702	841	659	214	663	212	633	387	735	162	1 776	179
Number of own children under 18 years	703	1 240	1 539	1 192	417	1 174	375	1 085	662	1 248	258	3 213	341
Female householder, no husband present	**124**	**210**	**244**	**218**	**86**	**184**	**56**	**237**	**214**	**321**	**75**	**199**	**16**
With own children under 18 years	79	133	158	114	40	102	36	125	101	191	41	123	8
Number of own children under 18 years	129	212	256	198	61	162	51	179	139	276	56	199	15
MARITAL STATUS													
Male, 15 years and over	**1 256**	**2 131**	**2 454**	**2 311**	**806**	**1 933**	**573**	**2 248**	**1 714**	**2 722**	**723**	**3 591**	**358**
Single	259	543	561	513	212	429	131	427	395	598	161	690	68
Now married, except separated	896	1 440	1 657	1 580	486	1 338	400	1 565	1 140	1 905	493	2 727	276
Separated	11	17	20	20	15	16	4	26	12	14	6	22	1
Widowed	18	31	72	50	33	37	5	67	39	42	7	28	2
Divorced	72	100	144	148	60	113	33	163	128	163	56	124	11
Female, 15 years and over	**1 298**	**2 234**	**2 778**	**2 614**	**895**	**2 083**	**616**	**2 672**	**2 140**	**3 234**	**873**	**3 722**	**366**
Single	251	436	530	471	120	312	110	348	413	519	157	536	53
Now married, except separated	891	1 448	1 635	1 588	497	1 330	399	1 551	1 136	1 906	497	2 727	276
Separated	12	32	38	28	18	19	10	38	17	25	11	19	4
Widowed	109	192	313	266	186	245	48	466	336	426	103	239	13
Divorced	135	226	262	261	74	177	49	269	238	358	105	201	20

Table P-1. General Characteristics of Persons: 1980—Con.

[For meaning of symbols, see Introduction. For definitions of terms, see appendixes A and B]

Census Tracts	Red Bank city, Hamilton County, Tenn.							Remainder of Hamilton County, Tenn.					
	Tract 0104.02*	Tract 0105.01*	Tract 0105.02*	Tract 0106	Tract 0107*	Tract 0108	Tract 0109*	Tract 0018*	Tract 0033*	Tract 0101	Tract 0102	Tract 0103.01	Tract 0103.02
AGE													
Total persons	**153**	**1 763**	**440**	**3 326**	**2 647**	**4 789**	**179**	**121**	**417**	**6 887**	**4 522**	**6 897**	**6 668**
Under 5 years	5	75	36	171	145	307	-	3	18	486	290	654	459
5 to 9 years	4	144	35	188	144	290	1	8	20	601	391	682	550
10 to 14 years	10	204	23	166	127	298	21	8	34	649	404	618	519
15 to 19 years	17	209	26	252	159	343	151	7	27	569	373	595	582
20 to 24 years	12	111	109	357	310	623	-	16	16	497	319	554	547
25 to 34 years	12	209	129	534	485	1 019	-	20	50	1 301	695	1 346	1 033
35 to 44 years	17	334	55	363	221	528	3	16	55	907	635	945	810
45 to 54 years	46	290	16	357	222	376	-	14	59	702	489	637	734
55 to 64 years	11	127	8	439	342	403	1	13	54	595	451	473	664
65 to 74 years	16	36	1	324	303	400	2	9	54	382	335	281	516
75 years and over	3	24	2	175	189	202	-	7	30	198	140	112	254
3 and 4 years	2	35	16	64	52	120	-	1	7	209	119	244	188
16 years and over	128	1 294	340	2 761	2 202	3 839	128	101	340	5 030	3 356	4 828	5 013
18 years and over	123	1 196	335	2 660	2 146	3 720	33	97	326	4 784	3 218	4 579	4 753
21 years and over	115	1 104	306	2 474	2 035	3 462	6	88	315	4 504	2 996	4 261	4 452
60 years and over	24	111	5	695	642	810	3	25	109	848	689	588	1 057
62 years and over	21	85	5	611	585	734	3	22	99	750	601	505	938
Median	44.8	32.7	24.6	34.8	33.6	29.3	16.7	33.8	43.4	30.2	32.1	27.5	31.6
Female	**88**	**877**	**211**	**1 752**	**1 455**	**2 924**	**4**	**58**	**225**	**3 479**	**2 284**	**3 333**	**3 440**
Under 5 years	5	43	16	71	76	156	-	1	4	208	160	298	212
5 to 9 years	3	75	17	89	71	143	1	2	9	322	190	309	260
10 to 14 years	5	89	10	78	46	139	-	6	23	321	190	281	261
15 to 19 years	12	88	18	124	83	186	1	4	14	279	165	280	288
20 to 24 years	7	54	61	197	173	343	-	8	9	271	157	291	263
25 to 34 years	7	114	55	260	259	497	-	8	30	655	352	670	532
35 to 44 years	11	176	25	191	102	256	1	7	28	426	328	453	406
45 to 54 years	22	139	5	188	127	199	-	8	31	379	243	307	380
55 to 64 years	5	64	4	262	210	224	-	6	33	297	237	233	357
65 to 74 years	8	17	-	175	182	254	1	3	27	204	185	142	319
75 years and over	3	18	-	117	126	127	-	5	17	117	77	69	162
3 and 4 years	2	24	8	20	31	57	-	-	2	103	62	110	95
16 years and over	70	648	164	1 501	1 242	2 058	3	49	187	2 567	1 703	2 392	2 640
18 years and over	66	606	162	1 445	1 226	1 995	3	47	178	2 450	1 650	2 273	2 521
21 years and over	61	571	140	1 344	1 159	1 853	2	41	172	2 300	1 547	2 117	2 369
60 years and over	15	59	2	412	393	499	1	10	60	456	378	311	634
62 years and over	13	46	2	365	361	454	1	10	52	410	335	274	571
Median	40.0	33.3	23.7	38.3	36.8	29.9	29.0	33.5	43.8	30.6	32.7	27.9	33.1
HOUSEHOLD TYPE AND RELATIONSHIP													
Total persons	**153**	**1 763**	**440**	**3 326**	**2 647**	**4 789**	**179**	**121**	**417**	**6 887**	**4 522**	**6 897**	**6 668**
In households	153	1 763	440	3 326	2 644	4 789	9	121	417	6 880	4 522	6 897	6 668
Householder	59	543	214	1 429	1 212	2 150	4	46	163	2 263	1 532	2 224	2 371
Family householder	48	499	103	999	777	1 328	2	31	128	2 019	1 297	1 912	1 953
Nonfamily householder	11	44	111	430	435	822	2	15	35	244	235	312	418
Living alone	11	41	82	384	387	728	2	11	34	224	223	286	397
Spouse	44	457	67	833	631	1 094	2	29	114	1 833	1 144	1 704	1 639
Other relatives	50	757	126	994	725	1 405	3	41	135	2 733	1 803	2 901	2 607
Nonrelatives	-	6	33	70	76	140	-	5	5	51	43	68	51
Inmate of institution	-	-	-	-	-	-	-	-	-	-	-	-	-
Other, in group quarters	-	-	-	-	3	-	170	-	-	7	-	-	-
Persons per household	2.59	3.25	2.06	2.33	2.18	2.23	2.25	2.63	2.56	3.04	2.95	3.10	2.81
Persons per family	2.96	3.43	2.87	2.83	2.75	2.88	3.50	3.26	2.95	3.26	3.27	3.41	3.17
Persons 65 years and over	**19**	**60**	**3**	**499**	**492**	**602**	**2**	**16**	**84**	**580**	**475**	**393**	**770**
In households	19	60	3	499	492	602	2	16	84	580	475	393	770
Householder	13	29	3	331	331	420	2	11	53	356	318	249	515
Nonfamily householder	4	6	3	119	147	197	1	4	19	111	111	94	206
Living alone	4	6	3	116	142	197	1	2	19	111	108	90	201
Spouse	6	11	-	121	118	138	-	3	22	142	110	84	178
Other relatives	-	20	-	44	43	42	-	2	9	80	44	55	74
Nonrelatives	-	-	-	3	-	2	-	-	-	2	3	5	3
Inmate of institution	-	-	-	-	-	-	-	-	-	-	-	-	-
Other, in group quarters	-	-	-	-	-	-	-	-	-	-	-	-	-
FAMILY TYPE BY PRESENCE OF OWN CHILDREN													
Families	**48**	**499**	**108**	**999**	**777**	**1 328**	...	**31**	**128**	**2 019**	**1 297**	**1 912**	**1 953**
With own children under 18 years	21	307	70	357	297	588	...	9	47	1 067	632	1 141	969
Number of own children under 18 years	27	553	102	605	461	976	2	23	83	1 941	1 180	2 122	1 714
Married-couple families	**44**	**457**	**67**	**833**	**631**	**1 094**	...	**29**	**114**	**1 833**	**1 144**	**1 704**	**1 639**
With own children under 18 years	18	275	37	281	230	474	...	9	44	977	569	1 031	829
Number of own children under 18 years	24	499	53	485	371	804	2	23	78	1 779	1 074	1 927	1 481
Female householder, no husband present	**4**	**33**	**27**	**142**	**126**	**201**	...	**1**	**10**	**147**	**118**	**145**	**267**
With own children under 18 years	3	28	26	68	63	109	...	-	2	72	49	82	125
Number of own children under 18 years	3	46	38	111	84	165	-	-	4	126	82	149	209
MARITAL STATUS													
Male, 15 years and over	**59**	**670**	**178**	**1 287**	**969**	**1 808**	**154**	**53**	**156**	**2 523**	**1 693**	**2 498**	**2 433**
Single	10	182	65	299	200	453	151	13	25	491	372	495	541
Now married, except separated	46	463	73	850	646	1 126	3	30	119	1 883	1 174	1 778	1 689
Separated	1	1	9	9	13	23	-	-	-	13	13	22	23
Widowed	-	6	3	21	22	42	-	3	8	33	36	43	53
Divorced	2	18	28	108	88	164	-	7	4	103	98	160	127
Female, 15 years and over	**75**	**670**	**168**	**1 514**	**1 262**	**2 086**	**3**	**49**	**189**	**2 628**	**1 744**	**2 445**	**2 707**
Single	18	119	61	291	236	388	1	14	32	361	262	317	393
Now married, except separated	46	462	72	852	655	1 118	2	30	118	1 884	1 175	1 760	1 685
Separated	1	4	4	16	16	17	-	1	1	18	19	23	28
Widowed	7	40	5	195	213	289	-	2	31	255	194	189	363
Divorced	3	45	26	160	142	274	-	2	7	110	94	156	238

Table P-1. **General Characteristics of Persons: 1980**—Con.

(For meaning of symbols, see Introduction. For definitions of terms, see appendixes A and B)

Census Tracts	Remainder of Hamilton County, Tenn.—Con.											
	Tract 0104.01*	Tract 0104.02*	Tract 0104.03*	Tract 0105.01*	Tract 0109*	Tract 0110	Tract 0111	Tract 0112	Tract 0113.01*	Tract 0113.02*	Tract 0114.01*	Tract 0114.03*
AGE												
Total persons	**1 657**	**1 864**	**20**	**2**	**193**	**5 376**	**5 339**	**10 620**	**10 230**	**1 336**	**7 668**	-
Under 5 years	163	110	2	...	10	418	338	631	918	138	582	-
5 to 9 years	169	132	-	...	9	426	411	730	1 003	138	689	-
10 to 14 years	115	166	-	...	13	475	467	796	960	128	750	-
15 to 19 years	113	162	-	...	18	476	482	1 429	880	87	752	-
20 to 24 years	117	131	1	...	10	382	209	1 598	696	65	545	-
25 to 34 years	442	286	4	...	36	919	698	1 454	2 174	325	1 580	-
35 to 44 years	267	246	5	...	32	756	819	1 286	1 483	192	1 173	-
45 to 54 years	117	225	4	...	28	582	712	1 020	972	114	783	-
55 to 64 years	76	206	2	...	26	495	572	821	594	74	446	-
65 to 74 years	56	138	2	...	7	290	356	524	306	44	253	-
75 years and over	22	62	-	...	4	157	275	331	244	31	115	-
3 and 4 years	69	49	1	...	4	165	151	255	357	57	226	-
16 years and over	1 186	1 414	18	...	158	3 955	4 012	8 298	7 147	917	5 496	-
18 years and over	1 131	1 351	18	...	147	3 747	3 775	7 938	6 780	870	5 168	-
21 years and over	1 084	1 265	18	...	140	3 505	3 596	6 577	6 333	835	4 771	-
60 years and over	114	295	3	...	25	686	891	1 192	790	107	553	-
62 years and over	94	258	3	...	17	570	781	1 036	670	90	465	-
Median	29.8	33.1	39.0	...	35.5	30.9	35.8	25.7	28.6	29.7	28.5	-
Female	**834**	**931**	**8**	...	**97**	**2 663**	**2 786**	**5 544**	**5 138**	**661**	**3 802**	-
Under 5 years	80	53	-	...	5	200	163	286	455	61	267	-
5 to 9 years	77	58	-	...	5	193	207	385	487	63	332	-
10 to 14 years	69	75	-	...	3	214	229	411	469	64	364	-
15 to 19 years	63	73	-	...	10	235	250	766	425	41	332	-
20 to 24 years	67	67	-	...	6	187	108	821	358	31	287	-
25 to 34 years	225	148	2	...	17	464	385	753	1 104	167	831	-
35 to 44 years	116	125	2	...	16	375	427	645	718	98	600	-
45 to 54 years	54	105	2	...	12	293	373	546	483	54	362	-
55 to 64 years	39	115	1	...	14	255	272	444	296	36	216	-
65 to 74 years	31	79	1	...	5	157	196	282	173	24	149	-
75 years and over	13	33	-	...	4	90	176	205	170	22	62	-
3 and 4 years	34	23	-	...	-	82	79	124	172	27	93	-
16 years and over	593	725	8	...	81	2 018	2 131	4 374	3 635	466	2 781	-
18 years and over	565	696	8	...	75	1 912	2 000	4 192	3 462	447	2 633	-
21 years and over	541	658	8	...	72	1 788	1 918	3 453	3 240	428	2 439	-
60 years and over	61	161	2	...	15	372	500	677	459	62	305	-
62 years and over	50	139	2	...	11	310	445	592	406	52	260	-
Median	29.0	34.5	42.5	...	37.8	31.7	36.2	26.2	29.0	29.8	29.0	-
HOUSEHOLD TYPE AND RELATIONSHIP												
Total persons	**1 657**	**1 864**	**20**	**2**	**193**	**5 376**	**5 339**	**10 620**	**10 230**	**1 336**	**7 668**	-
In households	1 657	1 864	20	...	193	5 376	5 183	9 402	10 067	1 302	7 668	-
Householder	591	677	8	...	79	1 800	1 755	3 217	3 141	405	2 444	-
Family householder	465	559	7	...	60	1 537	1 532	2 697	2 840	374	2 149	-
Nonfamily householder	126	118	1	...	19	263	223	520	301	31	295	-
Living alone	110	112	-	...	15	235	209	463	273	21	263	-
Spouse	445	489	7	...	51	1 379	1 400	2 405	2 562	349	1 936	-
Other relatives	595	686	4	...	59	2 138	1 991	3 648	4 279	534	3 216	-
Nonrelatives	26	12	1	...	4	59	37	132	85	14	72	-
Inmate of institution	-	-	-	...	-	-	140	7	160	30	-	-
Other, in group quarters	-	-	-	...	-	-	16	1 211	3	4	-	-
Persons per household	2.80	2.75	2.50	...	2.44	2.99	2.95	2.92	3.21	3.21	3.14	-
Persons per family	3.24	3.10	2.57	...	2.83	3.29	3.21	3.24	3.41	3.36	3.40	-
Persons 65 years and over	**78**	**200**	**2**	...	**11**	**447**	**631**	**855**	**550**	**75**	**368**	-
In households	78	200	2	...	11	447	487	851	421	56	368	-
Householder	49	134	1	...	7	289	311	520	249	30	217	-
Nonfamily householder	23	49	-	...	3	100	112	182	81	13	77	-
Living alone	23	48	-	...	3	90	107	175	81	11	74	-
Spouse	15	54	1	...	1	102	127	207	89	14	76	-
Other relatives	13	11	-	...	3	50	45	112	77	12	74	-
Nonrelatives	1	1	-	...	-	6	4	12	6	-	1	-
Inmate of institution	-	-	-	...	-	-	134	4	129	19	-	-
Other, in group quarters	-	-	-	...	-	-	10	-	-	-	-	-
FAMILY TYPE BY PRESENCE OF OWN CHILDREN												
Families	**465**	**559**	**7**	...	**60**	**1 537**	**1 532**	**2 697**	**2 840**	**374**	**2 149**	-
With own children under 18 years	287	269	1	...	22	814	830	1 375	1 767	237	1 305	-
Number of own children under 18 years	501	479	2	...	39	1 518	1 519	2 502	3 281	443	2 302	-
Married-couple families	**445**	**489**	**7**	...	**51**	**1 379**	**1 400**	**2 405**	**2 562**	**349**	**1 936**	-
With own children under 18 years	272	235	1	...	18	737	753	1 231	1 608	220	1 177	-
Number of own children under 18 years	482	420	2	...	33	1 382	1 387	2 266	2 993	415	2 111	-
Female householder, no husband present	**14**	**54**	-	...	**8**	**122**	**109**	**250**	**212**	**22**	**172**	-
With own children under 18 years	9	27	-	...	3	67	63	133	129	16	109	-
Number of own children under 18 years	10	48	-	...	5	120	110	222	240	26	161	-
MARITAL STATUS												
Male, 15 years and over	**602**	**711**	**10**	...	**77**	**2 091**	**1 936**	**4 001**	**3 622**	**459**	**2 808**	-
Single	100	144	1	...	19	433	404	1 355	764	80	642	-
Now married, except separated	458	507	7	...	52	1 421	1 431	2 472	2 614	357	1 998	-
Separated	8	4	-	...	-	12	4	28	34	1	16	-
Widowed	5	19	-	...	1	29	57	45	52	8	35	-
Divorced	31	37	2	...	5	106	40	101	158	13	117	-
Female, 15 years and over	**608**	**745**	**8**	...	**84**	**2 056**	**2 187**	**4 462**	**3 727**	**473**	**2 839**	-
Single	89	96	-	...	15	308	378	1 350	546	53	442	-
Now married, except separated	451	505	7	...	52	1 417	1 425	2 480	2 619	355	1 986	-
Separated	8	12	-	...	1	25	11	29	41	5	31	-
Widowed	29	80	-	...	10	204	264	369	319	34	180	-
Divorced	31	52	1	...	6	102	109	234	202	26	200	-

Table P-1. General Characteristics of Persons: 1980—Con.

[For meaning of symbols, see Introduction. For definitions of terms, see appendixes A and B]

Census Tracts	Remainder of Hamilton County, Tenn.—Con.		Totals for split tracts in Hamilton County, Tenn.										
	Tract 0120	Tract 0121*	Tract 0018	Tract 0033	Tract 0104.01	Tract 0104.02	Tract 0104.03	Tract 0105.01	Tract 0105.02	Tract 0107	Tract 0109	Tract 0113.01	Tract 0113.02
AGE													
Total persons	**1 886**	**519**	**4 188**	**6 629**	**12 026**	**7 421**	**14 807**	**7 163**	**2 826**	**2 675**	**5 792**	**12 098**	**6 783**
Under 5 years	89	38	296	473	1 073	498	1 052	427	174	146	362	963	499
5 to 9 years	119	31	296	456	1 273	524	1 191	544	162	145	315	1 071	558
10 to 14 years	150	39	259	459	1 157	583	1 372	608	160	131	334	1 049	532
15 to 19 years	138	45	326	511	994	684	1 401	622	197	160	520	1 002	557
20 to 24 years	98	68	449	589	760	631	1 103	619	307	312	741	815	499
25 to 34 years	214	93	638	1 110	2 756	1 320	2 712	1 192	517	489	1 263	2 393	1 185
35 to 44 years	254	57	357	631	1 878	1 040	2 299	961	273	224	624	1 659	913
45 to 54 years	227	62	423	829	1 046	990	1 877	1 061	358	227	556	1 130	849
55 to 64 years	234	35	467	779	575	597	1 117	733	342	348	536	778	635
65 to 74 years	195	29	406	516	348	360	465	276	225	304	354	523	344
75 years and over	168	22	271	276	166	194	218	120	111	189	187	715	212
3 and 4 years	37	14	106	148	452	191	431	191	73	52	139	380	207
16 years and over	1 497	401	3 256	5 141	8 309	5 678	10 887	5 450	2 295	2 224	4 673	8 790	5 075
18 years and over	1 433	384	3 127	4 909	7 847	5 388	10 280	5 178	2 207	2 168	4 436	8 383	4 836
21 years and over	1 366	354	2 910	4 623	7 388	5 013	9 580	4 820	2 088	2 056	4 160	7 852	4 542
60 years and over	489	67	912	1 134	761	806	1 095	693	470	646	764	1 563	817
62 years and over	436	58	792	989	645	704	909	558	413	588	663	1 405	702
Median	39.5	28.6	30.9	31.8	28.4	30.8	29.9	31.3	32.5	33.7	29.0	30.4	31.6
Female	**1 017**	**260**	**2 214**	**3 521**	**6 021**	**3 730**	**7 509**	**3 678**	**1 448**	**1 470**	**2 922**	**6 113**	**3 457**
Under 5 years	40	20	142	213	511	235	506	229	81	76	186	477	231
5 to 9 years	52	11	137	222	613	239	584	269	73	72	152	528	274
10 to 14 years	75	20	105	214	567	280	687	289	76	49	148	517	267
15 to 19 years	63	24	175	259	476	335	683	294	90	83	187	459	283
20 to 24 years	51	36	233	311	416	317	566	321	164	173	404	394	252
25 to 34 years	116	44	302	567	1 450	650	1 393	616	257	261	622	1 189	606
35 to 44 years	136	27	194	347	889	555	1 189	507	142	104	299	799	477
45 to 54 years	118	35	237	470	511	475	917	549	193	131	272	550	427
55 to 64 years	131	17	260	433	283	309	570	384	177	212	295	379	325
65 to 74 years	115	16	245	301	203	213	264	142	125	183	234	302	194
75 years and over	120	10	184	184	102	122	150	78	70	126	123	519	121
3 and 4 years	21	8	49	71	219	91	205	109	34	31	65	185	95
16 years and over	835	201	1 779	2 821	4 232	2 901	5 574	2 829	1 201	1 253	2 390	4 493	2 626
18 years and over	808	194	1 708	2 717	4 013	2 765	5 280	2 704	1 164	1 237	2 316	4 303	2 506
21 years and over	777	179	1 607	2 555	3 791	2 582	4 948	2 528	1 103	1 170	2 191	4 064	2 358
60 years and over	314	37	562	679	416	467	615	373	272	395	483	982	450
62 years and over	283	32	502	595	360	417	525	303	240	363	418	906	387
Median	43.2	28.4	35.8	34.3	28.6	31.8	30.5	32.0	33.8	36.9	29.9	31.2	32.2
HOUSEHOLD TYPE AND RELATIONSHIP													
Total persons	**1 886**	**519**	**4 188**	**6 629**	**12 026**	**7 421**	**14 807**	**7 163**	**2 826**	**2 675**	**5 792**	**12 098**	**6 783**
In households	1 881	519	4 188	6 629	12 026	7 421	14 701	7 161	2 796	2 672	5 275	10 894	6 749
Householder	750	198	1 597	2 459	3 801	2 681	5 077	2 508	1 147	1 224	2 367	3 423	2 256
Family householder	526	148	1 131	1 884	3 399	2 163	4 231	2 121	837	784	1 446	3 077	2 008
Nonfamily householder	224	50	466	575	402	518	846	387	310	440	921	346	248
Living alone	201	43	414	532	364	447	737	344	267	391	792	314	224
Spouse	467	108	836	1 507	3 130	1 904	3 703	1 868	718	637	1 177	2 754	1 811
Other relatives	625	191	1 633	2 543	4 992	2 711	5 722	2 695	875	734	1 547	4 623	2 626
Nonrelatives	39	22	122	120	103	125	199	90	56	77	184	94	56
Inmate of institution	-	-	-	-	-	-	100	-	30	-	347	1 201	30
Other, in group quarters	5	-	-	-	-	-	6	2	-	3	170	3	4
Persons per household	2.51	2.62	2.62	2.70	3.16	2.77	2.90	2.86	2.44	2.18	2.23	3.18	2.99
Persons per family	3.08	3.02	3.18	3.15	3.39	3.13	3.23	3.15	2.90	2.75	2.88	3.40	3.21
Persons 65 years and over	**363**	**51**	**677**	**792**	**514**	**554**	**683**	**396**	**336**	**493**	**541**	**1 238**	**556**
In households	363	51	677	792	514	554	680	395	336	493	503	500	537
Householder	267	38	460	524	298	352	411	240	215	332	352	307	309
Nonfamily householder	136	14	213	217	116	151	158	67	78	148	172	100	91
Living alone	125	14	204	212	114	145	156	67	78	143	167	100	89
Spouse	70	10	123	178	124	127	151	94	94	118	97	106	138
Other relatives	20	3	85	87	87	66	112	60	27	43	52	81	87
Nonrelatives	6	-	9	3	5	9	6	1	-	-	2	6	3
Inmate of institution	-	-	-	-	-	-	-	-	-	-	38	738	19
Other, in group quarters	-	-	-	-	-	-	3	1	-	-	-	-	-
FAMILY TYPE BY PRESENCE OF OWN CHILDREN													
Families	**526**	**148**	**1 131**	**1 884**	**3 399**	**2 163**	**4 231**	**2 121**	**837**	**784**	**1 446**	**3 077**	**2 008**
With own children under 18 years	238	68	461	823	2 214	1 133	2 400	1 061	354	300	604	1 883	1 048
Number of own children under 18 years	436	109	905	1 525	3 961	1 925	4 230	1 858	592	467	1 027	3 496	1 826
Married-couple families	**467**	**108**	**836**	**1 507**	**3 130**	**1 904**	**3 703**	**1 868**	**718**	**637**	**1 177**	**2 754**	**1 811**
With own children under 18 years	213	49	336	623	2 048	991	2 068	910	284	232	463	1 707	946
Number of own children under 18 years	394	78	673	1 199	3 695	1 698	3 710	1 616	493	376	808	3 176	1 676
Female householder, no husband present	**50**	**27**	**239**	**320**	**213**	**205**	**431**	**212**	**96**	**127**	**217**	**244**	**169**
With own children under 18 years	22	14	105	182	132	117	284	130	59	64	120	140	91
Number of own children under 18 years	38	22	199	293	209	191	448	211	83	85	189	258	136
MARITAL STATUS													
Male, 15 years and over	**678**	**202**	**1 507**	**2 369**	**4 193**	**2 840**	**5 460**	**2 693**	**1 112**	**980**	**2 345**	**4 424**	**2 509**
Single	156	51	414	581	790	662	1 260	630	288	204	750	1 020	487
Now married, except separated	477	117	875	1 545	3 185	1 955	3 796	1 905	732	652	1 243	2 905	1 861
Separated	3	-	26	24	30	22	42	22	15	13	37	89	12
Widowed	13	9	62	44	33	48	42	22	17	23	44	160	39
Divorced	29	25	13	175	155	153	320	114	60	88	271	250	110
Female, 15 years and over	**850**	**209**	**1 830**	**2 872**	**4 330**	**2 976**	**5 732**	**2 891**	**1 218**	**1 273**	**2 436**	**4 591**	**2 685**
Single	142	35	398	557	625	481	1 024	480	231	236	497	688	389
Now married, except separated	474	117	888	1 549	3 178	1 949	3 773	1 915	731	661	1 234	2 896	1 863
Separated	9	3	41	44	27	34	54	22	11	16	45	65	24
Widowed	184	24	336	415	268	282	387	217	130	215	318	681	223
Divorced	41	30	167	307	232	230	494	257	115	145	342	261	186

Table P-1. **General Characteristics of Persons: 1980**—Con.

[For meaning of symbols, see introduction. For definitions of terms, see appendixes A and B]

Census Tracts	Totals for split tracts in Hamilton County, Tenn.—Con.				Marion County, Tenn.			Sequatchie County, Tenn.	
	Tract 0114.01	Tract 0114.03	Tract 0114.04	Tract 0121	Tract 0501	Tract 0502	Tract 0503	Tract 0601	Tract 0602
AGE									
Total persons	**11 083**	**6 917**	**7 747**	**5 733**	**7 952**	**8 753**	**7 711**	**6 391**	**2 214**
Under 5 years	803	497	487	403	653	671	518	498	183
5 to 9 years	964	558	545	409	685	767	592	549	185
10 to 14 years	1 015	630	601	494	742	757	599	585	211
15 to 19 years	1 024	636	671	511	721	877	724	594	211
20 to 24 years	870	556	634	483	639	671	621	500	183
25 to 34 years	2 157	1 178	1 190	912	1 233	1 360	1 110	1 020	349
35 to 44 years	1 604	893	980	767	1 029	1 139	841	802	282
45 to 54 years	1 190	830	1 073	751	767	944	848	613	218
55 to 64 years	836	573	840	531	634	736	776	512	187
65 to 74 years	429	361	494	320	554	574	674	446	129
75 years and over	191	205	232	152	295	257	408	272	76
3 and 4 years	295	185	180	153	290	290	205	193	64
16 years and over	8 090	5 094	5 990	4 331	5 689	6 363	5 859	4 621	1 592
18 years and over	7 667	4 812	5 700	4 106	5 402	5 996	5 558	4 380	1 497
21 years and over	7 107	4 477	5 317	3 819	5 034	5 548	5 158	4 071	1 385
60 years and over	964	822	1 077	691	1 138	1 182	1 432	968	299
62 years and over	804	697	919	586	1 027	1 029	1 280	867	257
Median	29.0	30.1	33.0	30.9	29.3	29.8	31.8	29.7	28.5
Female	**5 571**	**3 596**	**4 000**	**2 932**	**3 979**	**4 429**	**4 006**	**3 267**	**1 122**
Under 5 years	384	246	245	194	327	311	242	246	103
5 to 9 years	458	258	266	198	346	388	310	261	89
10 to 14 years	492	314	259	248	352	364	287	285	99
15 to 19 years	461	326	340	243	345	433	335	288	116
20 to 24 years	471	293	330	247	307	348	300	246	96
25 to 34 years	1 144	618	610	466	636	692	537	509	170
35 to 44 years	824	489	528	402	507	551	441	395	140
45 to 54 years	586	422	567	393	377	462	453	309	116
55 to 64 years	407	296	438	267	330	395	428	293	89
65 to 74 years	239	210	277	183	305	315	392	254	59
75 years and over	105	124	140	91	147	170	281	181	45
3 and 4 years	132	95	87	85	150	139	98	94	35
16 years and over	4 158	2 701	3 173	2 239	2 873	3 265	3 102	2 402	807
18 years and over	3 967	2 560	3 019	2 137	2 726	3 096	2 962	2 299	757
21 years and over	3 682	2 391	2 827	2 005	2 551	2 864	2 774	2 148	694
60 years and over	519	468	590	384	604	674	870	577	152
62 years and over	434	399	611	326	542	597	791	520	129
Median	29.3	30.8	33.9	32.0	30.0	30.7	34.8	30.9	28.6
HOUSEHOLD TYPE AND RELATIONSHIP									
Total persons	**11 083**	**6 917**	**7 747**	**5 733**	**7 952**	**8 753**	**7 711**	**6 391**	**2 214**
In households	11 083	6 690	7 695	5 717	7 952	8 744	7 534	6 259	2 214
Householder	3 666	2 256	2 770	2 018	2 601	2 921	2 748	2 164	727
Family householder	3 163	1 888	2 262	1 670	2 235	2 436	2 129	1 784	625
Nonfamily householder	503	368	508	348	366	485	619	380	102
Living alone	423	319	455	326	359	466	602	363	95
Spouse	2 809	1 591	1 932	1 411	1 971	2 124	1 743	1 513	555
Other relatives	4 445	2 726	2 870	2 226	3 332	3 615	2 978	2 531	909
Nonrelatives	163	117	123	62	48	84	65	51	23
Inmate of institution	-	118	52	-	-	7	133	65	-
Other, in group quarters	-	109	-	16	-	2	44	67	-
Persons per household	3.02	2.97	2.78	2.83	3.06	2.99	2.74	2.89	3.05
Persons per family	3.29	3.29	3.12	3.18	3.37	3.36	3.22	3.27	3.34
Persons 65 years and over	**620**	**566**	**726**	**472**	**849**	**831**	**1 082**	**718**	**205**
In households	620	491	724	470	849	831	961	642	205
Householder	369	275	418	319	559	563	677	443	131
Nonfamily householder	118	92	118	135	187	217	312	168	38
Living alone	115	84	112	133	186	211	309	165	38
Spouse	137	116	184	106	221	170	202	145	53
Other relatives	111	91	120	44	67	92	78	50	20
Nonrelatives	3	9	2	1	2	6	4	4	1
Inmate of institution	-	30	2	-	-	-	116	54	-
Other, in group quarters	-	45	-	2	-	-	5	22	-
FAMILY TYPE BY PRESENCE OF OWN CHILDREN									
Families	**3 163**	**1 888**	**2 262**	**1 670**	**2 235**	**2 436**	**2 129**	**1 784**	**625**
With own children under 18 years	1 765	1 023	1 042	846	1 249	1 350	1 020	976	333
Number of own children under 18 years	3 147	1 826	1 846	1 465	2 318	2 466	1 850	1 813	644
Married-couple families	**2 809**	**1 591**	**1 932**	**1 411**	**1 971**	**2 124**	**1 743**	**1 513**	**555**
With own children under 18 years	1 549	841	871	712	1 124	1 214	849	851	299
Number of own children under 18 years	2 814	1 539	1 567	1 252	2 105	2 221	1 549	1 584	585
Female householder, no husband present	**296**	**244**	**274**	**211**	**199**	**247**	**315**	**215**	**55**
With own children under 18 years	188	158	150	116	100	110	143	99	28
Number of own children under 18 years	290	256	249	184	171	206	263	186	52
MARITAL STATUS									
Male, 15 years and over	**4 864**	**2 454**	**2 884**	**2 135**	**2 918**	**3 192**	**2 835**	**2 284**	**804**
Single	901	561	644	480	654	723	699	503	150
Now married, except separated	2 894	1 657	1 980	1 455	2 029	2 196	1 826	1 570	566
Separated	27	20	24	16	28	30	41	19	10
Widowed	53	72	55	46	65	61	89	57	21
Divorced	189	144	181	138	142	182	180	135	57
Female, 15 years and over	**4 237**	**2 778**	**3 230**	**2 292**	**2 954**	**3 346**	**3 167**	**2 475**	**831**
Single	693	530	581	347	430	538	488	362	126
Now married, except separated	2 877	1 635	1 987	1 447	2 034	2 188	1 826	1 576	572
Separated	43	38	38	22	29	27	55	30	4
Widowed	289	313	314	269	335	409	564	370	67
Divorced	335	262	310	207	126	204	234	137	62

Site No. TND 004934188

Reference No. 13

WATER QUALITY MANAGEMENT PLAN
FOR THE
LOWER TENNESSEE RIVER BASIN

November, 1978

PRODUCED BY
TENNESSEE DEPARTMENT OF PUBLIC HEALTH
DIVISION OF WATER QUALITY CONTROL
309 CAPITOL TOWERS
NASHVILLE, TENNESSEE 37219

Authorization No. 0871 ; 150 copies printed. This document was printed at a cost of 2780.50 , or 18.54 each, to fulfill a requirement of EPA Grant No. P004193010 to the State of Tennessee and Section 208 of the Federal Water Pollution Control Act Amendments of 1972.

Printed by Enviro-Printers, Franklin, Tennessee

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CHAPTER III

WATER USES AND WATER QUALITY

Water Uses

The surface and groundwaters of the Lower Tennessee River Basin may be used in many ways. For purposes of this report, water uses will be discussed for those broad categories considered as being reasonable and necessary under the "General Water Quality Criteria for the Definition and Control of Pollution in the Waters of Tennessee" (see Appendix A). The seven major uses considered in this document are domestic raw water supply, industrial water supply, fish and aquatic life, recreation, irrigation, livestock watering and wildlife, and navigation.

Classification of streams in the Lower Tennessee River Basin have been developed by the Tennessee Water Quality Control Board and are listed in Appendix B. In developing these classifications, the Board considered all known present stream uses as determined by inputs from the public hearing in the basin on March 23, 1972, as reflected in the previous basin plan for the Lower Tennessee River Basin, as well as the Water Quality Criteria of Tennessee as amended December, 1977. Groundwater, because of its complex hydrology, is difficult to classify according to use. Known specific uses are recognized by Tennessee's water quality criteria document cited above.

Domestic Raw Water Supply

Water supply systems taking raw water from the Lower Tennessee River Basin are shown in Table III-2 and Figure III-2. These systems include both public serving municipalities or utility districts, and semi-public serving either schools or institutions. In determining those streams or reaches of streams which are classified for domestic water supply use, the Tennessee Water Quality Control Board has considered several factors. All streams presently being used as a source of domestic raw water supply have been classified for that use. Also, all major streams with sustained year round flow were classified for water supply use, except for relatively short distances below existing wastewater discharges. Minor tributary streams were not classified for this use because of intermittent low flow conditions known to exist in these streams during late summer and early fall. All streams presently classified as a source for domestic raw water supply are listed in Appendix B.

Industrial Water Supply

Industrial water supply systems in the Lower Tennessee River Basin are shown in Table III-3 and Figure III-2. These systems primarily use water for either cooling, process, or washing purposes, with very little being used for sanitary facilities. All streams presently classified as a source for industrial water use are listed in Appendix B.

Fish and Aquatic Life

One of the most important uses of the streams in the basin is for the growth and propagation of fish and other aquatic life. Fishing provides a major recreational outlet for visitors and residents of the area, as evidenced by the 35,977 fishing licenses issued in 1977. But more important than their recreational value, fish and the complex aquatic food chain which supports them represent an important and integral part of our environment.

The waters of the basin support a wide variety of fish species. When considering only those species most important to the fisherman, three broad categories may be established: warm water species, cool water species, and cold water species. The warm water species include the largemouth bass, bluegill, crappie, suckers, and carp. The cool water species include smallmouth bass, rockbass, sauger, walleye and yellow perch. Numerous streams within the basin support good populations of rainbow and brown trout, which are classified as a cold water species.

All streams within the basin, except three which are contained within private ownership boundaries, are classified for fish and aquatic life. The criteria applying to this stream classification includes specific temperature limits. The maximum allowable temperature in these streams, except recognized trout streams, is 30.5 degrees Centigrade. Trout waters must be maintained below a maximum of 20.0 degrees Centigrade. Observations by the Tennessee Wildlife Resources Agency have indicated that cool water fish species are normally found in streams with maximum temperatures of less than 28.0 degrees Centigrade. The Wildlife Resources Agency has recommended to the Tennessee Water Quality Control Board that a number of streams or sections of streams in the basin be classified as coolwater streams, and that criteria be adopted to limit the maximum temperature of these streams to 28.0 degrees Centigrade. A list of these streams is given in Table III-4. The Division of Water Quality Control will be guided by this recommended maximum temperature when effluent limits for coolwater streams are established.

Recreation

The major forms of water related recreation in the basin are boating, swimming, fishing, picnicking, and sightseeing. For these uses, there are available within the basin four large reservoirs of 1,000 acres or more, 35 ponds containing 5 acres or more, approximately 2,580 small ponds under 5 acres in size, and numerous miles of streams having sustained flow the year round.

Although it is difficult to quantitatively express the actual amount of recreational use of all the surface streams in the entire basin, some data is available from the Tennessee Valley Authority for Chickamauga Lake. The annual recreational use of this reservoir is estimated to be approximately 5,745,000 man-day visits. Although this amount of use is considered to be much less for the minor tributary streams in the basin, water oriented recreation is considered to be an important overall use of all the surface streams.

The majority of streams within the basin have been classified for recreation except for: Tennessee River mile 448.0 to mile 460.6; Lookout Creek from its mouth to the Georgia-Tennessee state line; Citico Creek from its mouth to origin; South Chickamauga Creek, West Chickamauga Creek, and Spring Creek from mouth to

Georgia-Tennessee state line; Friar Branch and Royall Springs Branch from mouth to origin; South Mouse Creek from mouth to mile 18.8; and limited sections of certain streams immediately below sewage treatment plant outfalls. These exceptions were allowed by the Water Quality Control Board to prevent water contact recreation where the possibility of pathogenic organisms being present was great. This exception is in no way intended to exempt sewage treatment plants from the requirement of adequate disinfection of their effluents, but rather is an added safety precaution which was deemed necessary because of the lack of knowledge concerning the effectiveness of chlorination upon viruses.

Livestock Water and Wildlife

Disaggregation by area of data from the 1976 Annual Bulletin of Tennessee Agricultural Statistics indicates that there are 156,725 cattle and calves, and 18,575 hogs in the basin. In addition, there are sheep, lambs and goats, horses and ponies within the area but numbers were not reported in the Bulletin by county. Practically all these animals obtain their water from either natural streams or ponds. Maintenance of water quality to meet the requirements of livestock watering is vital to protect this valuable asset in the basin.

Wildlife is abundant in the basin and provides the outdoor enthusiast and hunter a great deal of recreational opportunity. Large game animals and waterfowl make frequent use of the larger streams and ponds, and numerous kinds of smaller wildlife use the streams of the basin either as a source of water or as part of their natural habitat. All streams within the Lower Tennessee River Basin have been designated for livestock watering and wildlife, except Citico Creek, Burra-Burra Creek, Davis Mill Branch, and East Acid Branch.

Irrigation

It is estimated that in 1964 there were about 45 irrigation systems in operation in the Lower Tennessee River Basin. In the following decade there was a 67 percent decrease in the number of systems; only 15 were reported in use in 1974. The primary reasons for this decline is believed to be due to the absence of extended drought periods during recent years and the labor costs associated with irrigation systems. Presently, only 50 acres of farmland are being irrigated in the basin.

Although irrigation presently represents a minor volume use of water in the basin, during drought perods, when stream flows are low, irrigation can become a vital need to save crops. Therefore, all streams, except Citico Creek and those stream sections contained within private boundaries, which have a sustained flow are classified for irrigation use.

Navigation

The U. S. Corps of Engineers has the responsibility of maintaining navigation in the navigable waters of the State. A public notice, listing those tributary streams in the Tennessee Valley which are considered navigable, was issued by the Corps in 1965. The Tennessee Water Quality Control Board has followed this listing in establishing the navigation classification. Those stream sections classified for navigation are: Tennessee River mile 416.5 to mile 499.4; Sequatchie River from mouth to mile 3.5; and the Hiwassee River from mouth to mile 23.9.

DRAFT

Potential Hazardous Waste Site

Site Inspection Report

THE GILMAN COMPANY, INC. CHATTANOOGA, TENNESSEE TND 004934188

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PRELIMINARY SITE INSPECTION REPORT

THE GILMAN COMPAY, INCORPORATED

TND 004934188

On October 16, 1985 a site inspection was conducted at The Gilman Company, Incorporated, in the city of Chattanooga, Hamilton County, Tennessee. Conducting the inspection were Janet Eldridge and Walker Howell. Representing Gilman Company was John Bishop, production and inventory control manager. During the course of the inspection, four (4) grab soil samples plus one duplicate sample were collected. These samples will be analyzed for barium, chromium, copper, lead, mercury, nickel and zinc. A laboratory report outlining the analytical results is expected from the state environmental lab on or about December 1, 1985. Gilman Company declined to split samples.

SSC/lag L/3

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
The Gilman Company, Inc.	Riverfront Parkway

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Chattanooga	TN	37402	Hamilton	033	03

09 COORDINATES — LATITUDE: 35 03 03.0 — LONGITUDE: 085 19 23.0

10 TYPE OF OWNERSHIP (Check one): [X] A. PRIVATE [ ] B. FEDERAL ____ [ ] C. STATE [ ] D. COUNTY [ ] E. MUNICIPAL [ ] F. OTHER ____ [ ] G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 10 16 85 (MONTH DAY YEAR)

02 SITE STATUS: [ ] ACTIVE [X] INACTIVE

03 YEARS OF OPERATION: 1920 (BEGINNING YEAR) present (ENDING YEAR) ____ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply): [ ] A. EPA [ ] B. EPA CONTRACTOR ____ (Name of firm) [ ] C. MUNICIPAL [ ] D. MUNICIPAL CONTRACTOR ____ (Name of firm) [X] E. STATE [ ] F. STATE CONTRACTOR ____ (Name of firm) [ ] G. OTHER ____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
Walker Howell	Geologist II	DSWM	(615) 741-6287

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO
Jan Eldridge	Geologist II	DSWM	(615) 741-6287
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
John Bishop	Production & Inv. Cont. Mgr.	Riverfront Parkway	(615) 756-5185
			( )
			( )
			( )
			( )
			( )

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17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
[X] PERMISSION [ ] WARRANT	2:30 p.m. EST	75°-80°F, sunny, slightly breezy

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
John Bishop	Gilman Company, Inc.	615-756-5185

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO	08 DATE
Walker F. Howell	TDHE	DSWM	615-741-6287	11 14 85 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A SOLID
- ☐ B. POWDER, FINES
- X C SLUDGE
- ☐ E. SLURRY
- X F LIQUID
- ☐ G. GAS
- ☐ D OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 300 (55 gal.)

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- X B CORROSIVE
- ☐ C RADIOACTIVE
- ☐ D PERSISTENT
- ☐ E SOLUBLE
- ☐ F INFECTIOUS
- ☐ G FLAMMABLE
- ☐ H IGNITABLE
- ☐ I HIGHLY VOLATILE
- ☐ J EXPLOSIVE
- ☐ K REACTIVE
- ☐ L INCOMPATIBLE
- ☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	15,000	gal.	trenched, allowed to dry 1 month,
OLW	OILY WASTE			then backfilled
SOL	SOLVENTS	106,000	kg	annually - store for 60 days
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES	38,280	Kg	Annually - store fro 90 days
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Xylene	36.1330-20-7			
SOL	Teluene	35. 108-88-3	DR	93-95	%
SOL	MEK	999			
BAS	NaOH	246. 1310-73-2	DR	10-25	%
SLU	Mercury	21. 7439-97-6	LF	unknown	

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V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

County file (33-135) TnDHE, Nashville Central Office (DSWM)
EPA Generator Notification Report and Hazardous Waste Description Report
Rebecca Harris' Files - TnDHE

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004931488

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: unknown
02 [ ] OBSERVED (DATE: _____) [X] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

Site underlain by Sequatchie Formation, not known to be used as a water source - some possibility of migration to Knox formation, a primary regional aquifer.

01 [ ] B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

N/A

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01 [ ] C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 [ ] E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 [X] F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 0.5 (Acres)
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [X] ALLEGED
04 NARRATIVE DESCRIPTION

Soil in area of disposal trenches contaminated with caustic sludge and toluene.

01 [ ] G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

N/A

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01 [ ] H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 [ ] I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 [ ] OBSERVED (DATE: _____) [ ] POTENTIAL [ ] ALLEGED
04 NARRATIVE DESCRIPTION

N/A

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names of species)

N/A

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: unknown

IV. COMMENTS

Caustic sludge was landfilled in 3 trenches, allowed to dry, then backfilled with dirt. Two trenches capped with 14 feet of earth and a building built over one and an asphalt parking lot over the other. The 3rd trench is covered with 2' of earth and an asphalt parking lot.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

TnDSWM Central Files

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE, DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL	16,500	gal.
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE

1/2 (Acres)

07 COMMENTS

300 ea. 55 gal. drums emptied into trenches in 1976-1977
An unknown amount of toluene from a spill in 1979 soaked into soil in this area.
Clean up was done under TDSWM supervision.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☒ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC

Area covered with earth cap and asphalt parking lot. Building now over one of the trenches.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☐ YES ☒ NO
02 COMMENTS

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VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sampling records, reports)

TDSWM Central Files

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☐	B. ☐	A. ☐	B. ☐	C. ☐	A. _____ (mi)
NON-COMMUNITY	C. ☐	D. ☐	D. ☐	E. ☐	F. ☐	B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☒ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER _____

03 DISTANCE TO NEAREST DRINKING WATER WELL _____ (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
_____ (ft)	_____	_____ (ft)	_____ (gpd)	☐ YES ☐ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☐ NO	COMMENTS	☐ YES ☐ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
	☐	_____ (mi)
	☐	_____ (mi)
	☐	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE A. _____ NO. OF PERSONS

TWO (2) MILES OF SITE B. _____ NO. OF PERSONS

THREE (3) MILES OF SITE C. _____ NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION _____ (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE _____

04 DISTANCE TO NEAREST OFF-SITE BUILDING _____ (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D 004934188

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
_____ (ft)	_____ (ft)	_____

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE		
		SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
_____ (in)	_____ (in)	_____ %		_____ %

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. _____ (mi)	B. _____ (mi)	C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

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VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	4	State Environmental Lab	12/1/85
VEGETATION			
OTHER			

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III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL

02 IN CUSTODY OF _____ (Name of organization or individual)

03 MAPS ☐ YES ☐ NO

04 LOCATION OF MAPS _____

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
The Gilman Company, Inc.		Jones-Blair	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
P.O. Box 1257		P.O. Box 35286	

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Chattanooga	TN	37402	Dallas	TX	75235

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (If applicable)			
01 NAME			02 D+B NUMBER	10 NAME			11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER						

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)			
01 NAME			02 D+B NUMBER	10 NAME			11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD						
01 NAME			02 D+B NUMBER	10 NAME			11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD						
01 NAME			02 D+B NUMBER	10 NAME			11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD						

DRAFT

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
The Gilman Co. Inc.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
P.O. Box 1257	

05 CITY	06 STATE	07 ZIP CODE
Chattanooga	TN	37402

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
NONE			

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

DRAFT

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ D. SPILLED MATERIAL REMOVED — 02 DATE Nov. 1979- Jan. 1980 — 03 AGENCY _____
04 DESCRIPTION
Toluene-contaminated water pumped from excavation after transfer line leak.

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☒ F. WASTE REPACKAGED — 02 DATE Nov. 1979 to Jan. 1980 — 03 AGENCY _____
04 DESCRIPTION
Water/toluene pumped into 55-gallon drums.

01 ☒ G. WASTE DISPOSED ELSEWHERE — 02 DATE Jan. 1980 — 03 AGENCY _____
04 DESCRIPTION
Drums of water/toluene disposed of by licensed contractor.

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

DRAFT

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

TDSWM Central Files

DRAFT

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D 004934188

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

None

DRAFT

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

* Update

33-135

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	DOC0934188

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Gilman Co.

03 CITY: Chattanooga

09 COORDINATES LATITUDE: 35 03 03.__ LONGITUDE: 085 19 33.__

Gilman Company
Riverfront Parkway
Chattanooga, TN

10 DIRECTIONS TO SITE (Starting from nearest public road): Intersection of Riverfront Parkway and MLK Blvd.

III. RESPONSIBLE PARTIES

01 OWNER (If known): John Covington - Manager, Gilman Co.	02 STREET (Business, mailing, residential): P.O. Box 1257		
03 CITY: Chattanooga	04 STATE: TN	05 ZIP CODE: 37402	06 TELEPHONE NUMBER: (615) 756-5185
07 OPERATOR (If known and different from owner):	08 STREET (Business, mailing, residential):		
09 CITY:	10 STATE:	11 ZIP CODE:	12 TELEPHONE NUMBER: ( )

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☒ A. RCRA 3001 DATE RECEIVED: 12/1/85 (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: / / (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 9/30/83 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one): Generator
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION: 1920 (BEGINNING YEAR) — (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Caustic sludge from [illegible] Sodium [illegible]
Solvents, NOS
Non-listed Corrosive Wastes

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)			03 TELEPHONE NUMBER: ( )
04 PERSON RESPONSIBLE FOR ASSESSMENT: [illegible]	05 AGENCY: [illegible]	06 ORGANIZATION: [illegible]	07 TELEPHONE NUMBER: [illegible]	08 DATE: [illegible] (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D004934188

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 300 (55 Gal.)

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☒ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
X SLU	SLUDGE	15,000	GJ	Trenched, allowed to dry 1 month, then [illegible]
OLW	OILY WASTE			
X SOL	SOLVENTS	106,000	KG	Intermittently - Store waste for 60 days
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
X BAS	BASES	38,300	KG	Intermittently - Store waste for 60 days
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently used CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Xylene	36.1330-20-7			
SOL	Toluene	35.108-88-3	DP	23-25	%
SOL	MEK	000			
BAS	NaOH	246.1310-73-2	DP	10-25	%
SLU	Mercury	21.7439-97-6	LF	?	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sampling results, reports)

County File (33-135), TN. Dept. of Health and Environment, Division of Solid Waste Control [illegible]

[illegible] Harris [illegible] - TN. Dept. of H. + E.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D004934188

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D004934133

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/runoff/standing liquids/leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION *(Cite specific references, e. g., state files, sample analysis, reports)*

33-135

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: TN
02 SITE NUMBER: D004934188

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Gilman Co.	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: Riverfront Parkway
03 CITY: Chattanooga	04 STATE: TN; 05 ZIP CODE: 37402; 06 COUNTY: Hamilton; 07 COUNTY CODE: 135; 08 CONG DIST: 03
09 COORDINATES LATITUDE: 35 03 03._ LONGITUDE: 085 19 23._	

10 DIRECTIONS TO SITE (Starting from nearest public road):
Intersection of Riverfront Parkway and MLK Blvd.

III. RESPONSIBLE PARTIES

01 OWNER (If known): John Covington - Manager, Gilman Co.	02 STREET (Business, mailing, residential): P.O. Box 1257
03 CITY: Chattanooga	04 STATE: TN; 05 ZIP CODE: 37402; 06 TELEPHONE NUMBER: (615) 756-5185
07 OPERATOR (If known and different from owner):	08 STREET (Business, mailing, residential):
09 CITY:	10 STATE: ; 11 ZIP CODE: ; 12 TELEPHONE NUMBER: ( )

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: ____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: ____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☒ A. RCRA 3001 DATE RECEIVED: 12/1/80 (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: / / (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 8/30/83 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: ____ (Specify)
CONTRACTOR NAME(S): ____

02 SITE STATUS (Check one) Generator
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1920 (BEGINNING YEAR) / — (ENDING YEAR) 70 in 82
☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Caustic sludge from cleaning paint vats with sodium hydroxide (dumped in 1976-1977 in trenches on site)
Solvents, NOS
Non-listed Corrosive Wastes

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

ERRIS list indicates "No Further Action"

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☒ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)			03 TELEPHONE NUMBER
				( )
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Kenneth R. Davis	SWM	TN. Dept. of H. + E.	(615) 741-6287	12/6/83 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
TN	D004934188

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO. OF DRUMS 300 (55 Gal.)

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☒ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
X SLU	SLUDGE	15,000	GA	Trenched, allowed to dry 1 month, then back filled
OLW	OILY WASTE			
X SOL	SOLVENTS	106,000	KG	Annually - Store waste for 60 days
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
X BAS	BASES	38,280	KG	Annually - Store waste for 90 days
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Xylene	36.1330-20-7			
SOL	Toluene	35.108-88-3	DR	93-95	%
SOL	MEK	999			
BAS	NaOH	246.1310-73-2	DR	10-25	%
SLU	Mercury	21.7439-97-6	LF	?	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sampling analysis, reports)

County File (33-135), TN. Dept. of Health and Environment, Nashville Central Office (Division of Solid Waste Management)
EPA's Generator Notification Report and Hazardous Waste Description Report
Rebecca Harris' Files - TN. Dept. of H. + E.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D004934188

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/runoff/standing liquids/leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION *(Cite specific references, e. g., state files, sample analysis, reports)*

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TN	D004934188

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

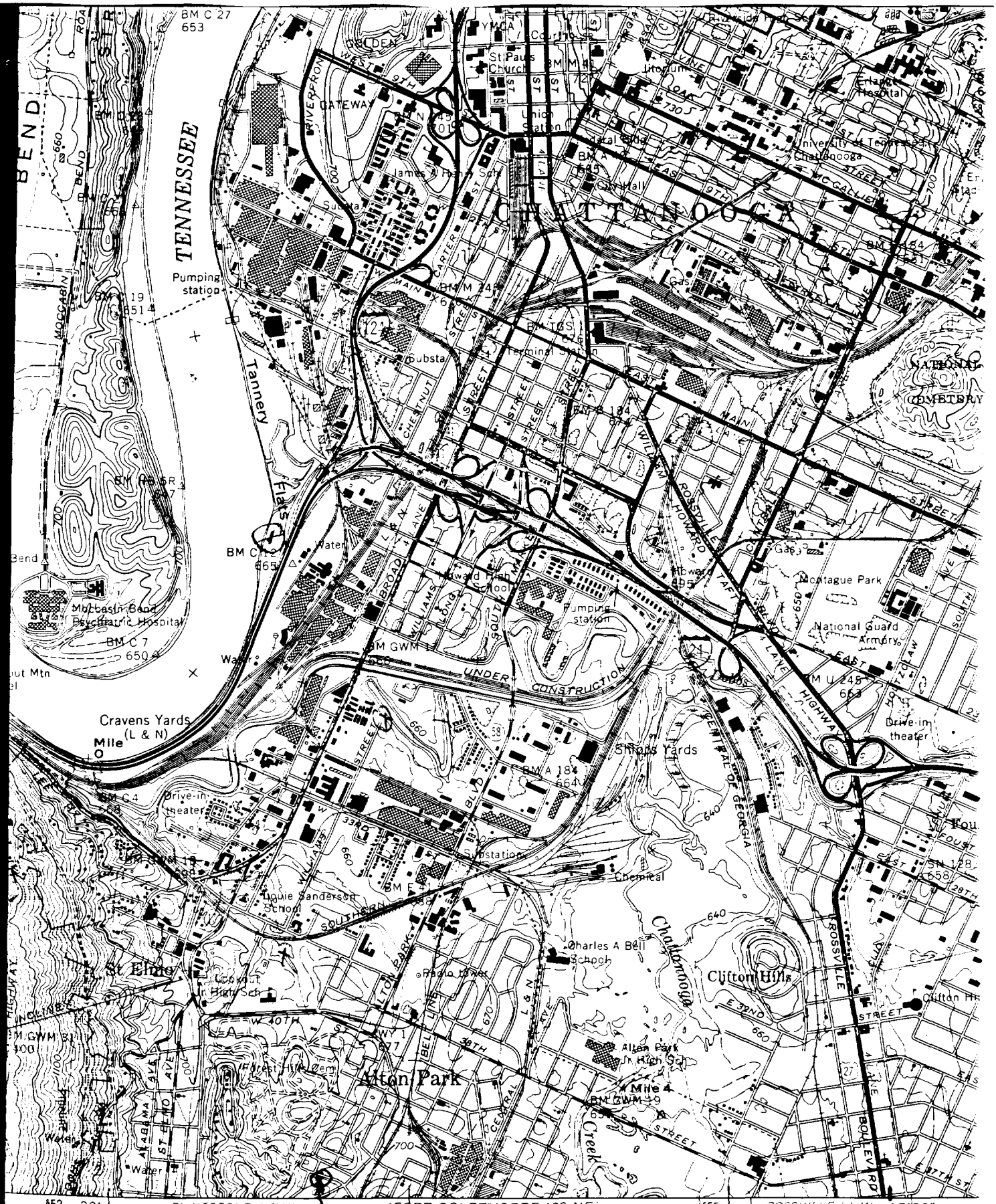
01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION



(FORT OGLETHORPE 106-NE)
3953 IV NE

SCALE 1:24 000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETRE

CONTOUR INTERVAL 20 FEET
DASHED LINES REPRESENT HALF-INTERVAL CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

Chattanooga Quad

THE GILMAN COMPANY, INC.
TELEPHONE (615) 756-5185

AUG 10 1982

9-12
8-18

CORPORATE OFFICES:
P.O. BOX 1257
SUITE 300, INTERSTATE LIFE BLDG.
540 McCallie Ave.
CHATTANOOGA, TN 37401

August 9, 1982

TN Reg IV

Mr. Tom Tiesler, Director
Division of Solid Waste Management
Tennessee Department of Public Health
T.E.R.R.A. Building
150 North Avenue, North
Nashville, Tennessee 37203

Dear Mr. Tiesler:

I have attached a letter to me from your Mr. Steve Baxter which describes our dump site location better than I could with the attached forms.

If there are any further questions please contact me.

Sincerely,

John Covington
Vice-President/Manufacturing

JC/lch
Enclosure

State of Tennessee — Department of Public Health
Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

PART 1 - FACILITY INFORMATION AND ASSESSMENT

1 - No hazard
[illegible] closure
monitoring [illegible]

I. IDENTIFICATION

01 DISPOSAL FACILITY ID NO.

II. FACILITY NAME AND LOCATION

01 FACILITY NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER			
The Gilman Co., Inc.	Riverfront Parkway			
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE
Chattanooga	Tn.	37402	Hamilton	
08 COORDINATES LATITUDE	LONGITUDE			
— — — — — —	— — — — — —			

09 DIRECTIONS TO FACILITY (Starting from nearest public road)
Intersection of Riverfront Parkway and MLK Blvd.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET		
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER ( )
07 OPERATOR (If known and different from owner)	08 STREET		
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ( )

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: Corporation (Specify) ☐ G. UNKNOWN

14 FACILITY STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

15 YEARS OF OPERATION 1976 (BEGINNING YEAR) | 1977 (ENDING YEAR) ☐ UNKNOWN

IV. NOTIFIER INFORMATION

01 NOTIFIER NAME (Company name)	02 STREET OR BOX NO.			03 TELEPHONE NUMBER
The Gilman Co., Inc.	P. O. Box 1257			(615) 756-5185
04 CITY	05 STATE	06 ZIP CODE	07 COUNTY	08 DATE
Chattanooga	Tn.	37401	Hamilton	8 / 6 / 82 (MONTH DAY YEAR)

09 CONTACT NAME	10 CONTACT TITLE
John Covington	Vice-President/Manufacturing

11 SIC CODE AND DESCRIPTION LISTED

12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, ETC.)

Latex Paint
Solvent Paint
Lacquer

PART 2. INFORMATION CONCERNING WASTES DISPOSED AT REFERENCED FACILILTY

I. WASTE STATES, QUANTITIES, AND CHARACTERISTICS AT TIME OF DISPOSAL

01 PHYSICAL STATES (Check all that apply)
☐ A. SOLID ☐ E. SLURRY
☐ B. POWDER, FINES ☐ F. LIQUID
☒ C. SLUDGE ☐ G. GAS
☐ D. OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)
TONS _____
OR CUBIC YARDS _____
OR NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)
☐ Ignitable ☒ Toxic
☐ Reactive ☐ EP Toxic
☒ Corrosive ☐ Other _____

04 DATES OF WASTE DISPOSAL BY NOTIFER AT ABOVE SITE: FROM _____ TO _____

Tennessee Department of Public Health — Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

PART 2 - WASTE INFORMATION—continued

I. IDENTIFICATION

01 DISPOSAL FACILITY ID NO

II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations for Code Numbers)

01 HAZARDOUS WASTE CODE	02 SUBSTANCE NAME	03 SOURCE OF WASTE (Activity Producing Waste)	04 TREATMENT METHOD (Ref. Process Codes)	05 STORAGE/DISPOSAL METHOD (Ref. Process Codes)	06 AMOUNT DISPOSED PER MONTH	07 UNIT OF MEASURE	08 CONCENTRATION AS DISPOSED	09 UNIT OF MEASURE

TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH =

PROCESS CODES:

Treatment:	Code	Treatment	Code	Storage:	Code	Disposal:	Code
TANK	T01	OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the process in the space provided: PART 2-III)*	T04	CONTAINER *(barrel, drum, etc)*	S01	INJECTION WELL	D79
SURFACE IMPOUNDMENT	T02			TANK	S02	LANDFILL	D80
INCINERATOR	T03			WASTE PILE	S03	LAND APPLICATION	D81
				SURFACE IMPOUNDMENT	S04	OCEAN DISPOSAL	D82
				OTHER *(Describe process in the space provided; Part 2-III)*	S05	SURFACE IMPOUNDMENT	D83
						OTHER *(Describe process in space provided; Part 2-III)*	D84

Tennessee Department of Public Health — Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

PART 2—WASTE INFORMATION—Continued

I. IDENTIFICATION

01 FACILITY ID NO

TND004934188

III. EXPLANATION OF PROCESS CODES, PARTICULARLY "OTHER" CODES USED IN PART 2-II.

PART 3—DESCRIPTIVE INFORMATION

I. FACILITY DESCRIPTION

01 DESCRIPTION OF METHOD OF OPERATION, CLOSURE COVER, ETC

See attached.

02 CURRENT USE AND SITE SECURITY (FENCING, LIGHTING ETC.) WHERE APPLICABLE

See attached.

II. CONTAINMENT

01 DESCRIPTION OF DRUMS DIKING LINERS BARRIERS, LEACHATE COLLECTION AND TREATMENT SYSTEMS, ETC

See attached.

III. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE (exposed at surface?) ☐ YES ☒ NO

02 COMMENTS Have already been inspected by Mr. Steve Baxter, your Chattanooga office.

PART 4—DEMOGRAPHIC, WATER, AND ENVIRONMENTAL DATA

I. DEMOGRAPHIC AND PROPERTY INFORMATION

01 ESTIMATED TOTAL POPULATION

A Residents within ½ mi. radius _____ B. Residents within 1 mi. radius _____ C No. Employees on site _____

02 PROVIDE USGS TOPOGRAPHIC MAP FOR 1 MI. RADIUS OF FACILITY SHOWING THE FOLLOWING.

a. 20 ft. contours

b. existing roads, buildings and other major structures

c. drinking water intakes (both groundwater and surface water)

II. GROUNDWATER

01 GROUNDWATER USE IN VICINITY *(Check as applicable)*

☐ A ONLY SOURCE FOR DRINKING ☐ B DRINKING *(Other sources available)* ☐ C COMMERCIAL, INDUSTRIAL, IRRIGATION *(No other water sources available)* ☐ D COMMERCIAL, INDUSTRIAL, IRRIGATION *(Limited other sources available)* ☐ E NOT USED, UNUSEABLE

02 POPULATION WITHIN 1 MI. RADIUS OF FACILITY WHICH IS SERVED BY GROUND WATER _____ (estimate)

03 DISTANCE TO NEAREST DOWN GRADIENT DRINKING WATER WELL _____ (mi) (estimate)

04 DEPTH TO UPPERMOST AQUIFER (ft)	05 DIRECTION OF UPPERMOST AQUIFER FLOW	06 DEPTH TO AQUIFER OF CONCERN _____ (ft)	07 POTENTIAL YIELD OF AQUIFER _____ (gpd)	08 SOLE SOURCE AQUIFER ☐ YES ☐ NO

Tennessee Department of Public Health — Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

PART 4—WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 FACILITY ID NO.

II. GROUNDWATER—Continued

09 DESCRIPTION OF WELLS *(Including usage, depth, and location—latitude and longitude—within 1 mi. radius)*

10 RECHARGE AREA

☐ YES
☐ NO

COMMENTS

11 DISCHARGE AREA

☐ YES
☐ NO

COMMENTS

III. SURFACE WATER

01 SURFACE WATER USE *(Check one)*

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 POTENTIALLY AFFECTED BODIES OF WATER

NAME	DISTANCE TO SITE
	(mi)
	(mi)
	(mi)

IV. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE *(Check one)*

☐ A. 10^{-} to 10^{-} cm/sec ☐ B. 10^{-} to 10^{-} cm/sec ☐ C. 10^{-} to 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK *(Check one)*

☐ A. IMPERMEABLE *(Less than 10^{-} cm/sec)* ☐ B. RELATIVELY IMPERMEABLE *(10^{-} to 10^{-} cm/sec)* ☐ C. RELATIVELY PERMEABLE *(10^{-} to 10^{-} cm/sec)* ☐ D. VERY PERMEABLE *(Greater than 10^{-} cm/sec)*

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
(ft)	(ft)		

06 NET PRECIPITATION/YEAR	07 TEN YEAR 24 HOUR RAINFALL	08 SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
(in)	(in)	%		%

09 FLOOD POTENTIAL

FACILITY IS IN YEAR FLOOD PLAIN

10 DISTANCE TO WETLANDS *(5 acre minimum)* (mi)

11 DISTANCE TO CRITICAL HABITAT *(of endangered species)* (mi)

ENDANGERED SPECIES

12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY

V. PHOTOGRAPHS (Provide copies if readily available)

01 TYPE ☐ GROUND ☐ AERIAL

02 IN CUSTODY OF
(Name of organization and individual contact)

Address

Phone No.

03 DATES *(estimated)*
EARLIEST PHOTO DATE
LATEST PHOTO DATE

Tennessee Department of Public Health — Division of Solid Waste Management

Potential Hazardous Waste Disposal Facility

PART 5—SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 FACILITY ID NO

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 BRIEF SUMMARY OF ANALYTICAL RESULTS	03 SAMPLING DATES
GROUNDWATER			
SURFACE WATER			
AMBIENT AIR			
METHANE			
RUNOFF			
SOIL			
VEGETATION			
OTHER			

III. OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data)

PART 6—OFF-SITE GENERATOR INFORMATION

I. OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY

01 NAME	02 D + B NUMBER	01 NAME	02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	05 CITY / 06 STATE	07 ZIP CODE
01 NAME	02 D + B NUMBER	01 NAME	02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	05 CITY / 06 STATE	07 ZIP CODE

PART 7—SOURCES OF INFORMATION FOR THIS REPORT *(Cite specific references, e.g., company files, sample analysis, reports)*

STATE OF TENNESSEE
DEPARTMENT OF PUBLIC HEALTH
SOUTHEAST REGIONAL OFFICE
2501 MILNE STREET
CHATTANOOGA, TENNESSEE 37406

July 21, 1981

Mr. John Covington
Vice-President, Manufacturing
The Gilman Paint Company, Inc.
801 Riverfront Parkway
Chattanooga, Tennessee 37402

Re: Abandoned Hazardous Waste
Disposal Site
Riverfront Parkway
Chattanooga

Dear Mr. Covington:

This office has completed an evaluation of the abandoned hazardous waste disposal site owned by The Gilman Paint Company, Inc., Chattanooga, Tennessee. The site, located in the vicinity of the company's retail store on Riverfront Parkway, consisted of three parallel trenches, each being approximately ninety (90) feet long, ten (10) feet wide and four (4) feet deep. Over a period of six to eight months from 1976 to 1977, an estimated three hundred (300) drums (55 gallon capacity) of caustic sludge were dumped into the trenches. The sludge, derived from cleaning paint vats with sodium hydroxide was allowed to dry for approximately one month and covered. All trenches were filled back to the original grade and covered with at least two feet of borrowed residuum. Also, while grading for the new retail structure, two trenches received an additional twelve (12) feet of cover material.

Based on site investigations by this office, along with reports submitted by Lynn Lyle, staff geologist, and Norman Travis, staff chemist, the following conclusions were attained.

1. No leachate has been observed on site and the chance of future leaching appears minimal due to abundant surface cover material. Trench (1), located under the store's front parking area was covered with a fourteen (14) foot soil cap and several inches of asphalt surfacing material. Trench (2) also received the fourteen (14) foot cap and is located beneath the building structure. Trench (3) apparently located under the rear parking lot does not have the additional twelve (12) feet of cover but does contain the two foot cap plus a layer of asphalt, which minimizes infiltration.

2. The naturally slow-draining soil in which the trenches are located provides additional protection against leachate movement. However, in the event that leachate should migrate downward into the underlying Sequatchie Rock Formation, it is unlikely that any significant groundwater supply would be contaminated. The Sequatchie is a poor aquifer and there exists structural as well as lithological barriers between it and the leading regional aquifer, the Knox Group.

3. The two wells nearest to the site are approximately two miles away. Each draws its water from the Knox aquifer. Any plume of contamination moving through the Sequatchie would likely be prevented from reaching the Knox by the considerable thickness (597') of the Rockwood Formation and by the impermeable Chattanooga Shale which overlies the Rockwood.

4. Significant contamination of the Tennessee River is unlikely due to:

   a) The small quantity of leachate that could be generated in relation to the streams dilution potential.

   b) The soil nature and gentle slope toward the river.

   c) The bedrock dip away from the stream.

In view of the conclusions outlined above, this office will only require that you continue to monitor the site for any related problems that might possibly occur.

If problems do arise or additional site information is discovered, please contact this office for a re-assessment of the situation.

Your cooperation and openhanded approach regarding this matter was very helpful.

Should you have additional questions, please feel free to call (615) 624-9921.

Sincerely,

Steve Baxter

Steve Baxter
Environmental Consultant
Solid Waste Management

SB/ss

cc: Division of Solid Waste Management, Nashville, c/o Joe Walkup
cc: Hamilton County Health Department, c/o Dr. Frank Failing
cc: Southeast Regional Office, c/o Wayne Everett

EPA Notification of Hazardous Waste Sites

United States Environmental Protection Agency
Washington DC 20460

R

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and must be mailed by June 9, 1981.

Please type or print in ink. If you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

810609

TNS000001143

A Person Required to Notify:

Enter the name and address of the person or organization required to notify.

Name: The Gilman Co. Inc.
Street: P.O. Box 1257
City: Chattanooga State: Tn Zip Code: 37402

B Site Location:

Enter the common name (if known) and actual location of the site.

Name of Site: under Gilman RiverFront Store
Street: RiverFront Parkway
City: Chattanooga County: Hamilton State: Tn Zip Code: 37402

TND004934188

C Person to Contact:

Enter the name, title (if applicable), and business telephone number of the person to contact regarding information submitted on this form.

Name (Last, First and Title): Covington, John, V.P./Manufacturing
Phone: 615/756-5185

D Dates of Waste Handling:

Enter the years that you estimate waste treatment, storage, or disposal began and ended at the site.

From (Year): Fall 1976 To (Year): Spring 1977

E Waste Type: Choose the option you prefer to complete

Option I: Select general waste types and source categories. If you do not know the general waste types or sources, you are encouraged to describe the site in Item I—Description of Site.

General Type of Waste:
Place an X in the appropriate boxes. The categories listed overlap. Check each applicable category.

1. ☐ Organics
2. ☐ Inorganics
3. ☐ Solvents
4. ☐ Pesticides
5. ☐ Heavy metals
6. ☐ Acids
7. ☐ Bases
8. ☐ PCBs
9. ☐ Mixed Municipal Waste
10. ☐ Unknown
11. ☒ Other (Specify) Caustic sludge from stripping paint tanks

Source of Waste:
Place an X in the appropriate boxes.

1. ☐ Mining
2. ☐ Construction
3. ☐ Textiles
4. ☐ Fertilizer
5. ☐ Paper/Printing
6. ☐ Leather Tanning
7. ☐ Iron/Steel Foundry
8. ☐ Chemical, General
9. ☐ Plating/Polishing
10. ☐ Military/Ammunition
11. ☐ Electrical Conductors
12. ☐ Transformers
13. ☐ Utility Companies
14. ☐ Sanitary/Refuse
15. ☐ Photofinish
16. ☐ Lab/Hospital
17. ☐ Unknown
18. ☒ Other (Specify) Paint Manufacturing

Option 2: This option is available to persons familiar with the Resource Conservation and Recovery Act (RCRA) Section 3001 regulations (40 CFR Part 261).

Specific Type of Waste:
EPA has assigned a four-digit number to each hazardous waste listed in the regulations under Section 3001 of RCRA. Enter the appropriate four-digit number in the boxes provided. A copy of the list of hazardous wastes and codes can be obtained by contacting the EPA Region serving the State in which the site is located.

K-086

RECEIVED
EPA/REGION IV
JUN 3 12 37 PM '81
ENTOMOLOGY
DIVISION

0001 35

Form Approved
OMB No. 2000-0138

EPA Form 8900-1

Notification of Hazardous Waste Site **Side Two**

F Waste Quantity:

Place an X in the appropriate boxes to indicate the facility types found at the site.

In the "total facility waste amount" space give the estimated combined quantity (volume) of hazardous wastes at the site using cubic feet or gallons.

In the "total facility area" space, give the estimated area size which the facilities occupy using square feet or acres.

Facility Type

1. ☐ Piles
2. ☐ Land Treatment
3. ☐ Landfill
4. ☐ Tanks
5. ☐ Impoundment
6. ☐ Underground Injection
7. ☐ Drums, Above Ground
8. ☐ Drums, Below Ground
9. ☒ Other (Specify) Sludge poured in trenches and covered.

Total Facility Waste Amount

cubic feet

gallons 15,000

Total Facility Area

square feet

acres ≈ 1/3

G Known, Suspected or Likely Releases to the Environment:

Place an X in the appropriate boxes to indicate any known, suspected, or likely releases of wastes to the environment. The State of Tennessee Dept. of Public Health is checking the site for us.

☐ Known ☐ Suspected ☐ Likely ☒ None

Note: Items H and I are optional. Completing these items will assist EPA and State and local governments in locating and assessing hazardous waste sites. Although completing the items is not required, you are encouraged to do so.

H Sketch Map of Site Location: (Optional)

Sketch a map showing streets, highways, routes or other prominent landmarks near the site. Place an X on the map to indicate the site location. Draw an arrow showing the direction north. You may substitute a publishing map showing the site location.

I Description of Site: (Optional)

Describe the history and present conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing. Include such information as how waste was disposed and where the waste came from. Provide any other information or comments which may help describe the site conditions.

1. In Fall of 1976 three trenches were dug ≈ 150 ft long, 4-5 ft below original grade, 6-7 ft wide. Four in. of sand put in each trench.
2. 100 drums of caustic sludge (≈ 50 gal/drum) was poured into each trench.
3. The trenches were left open 1-2 months.
4. The trenches were filled with dirt to original grade.
5. In Fall of 1978 grade was built up and a store was built on site.
6. We are working with Michael S. Baxter, Division of Solid Waste Management, Tennessee Department of Public Health (615/741-3721), to insure there is no existing hazards.

J Signature and Title:

The person or authorized representative (such as plant managers, superintendents, trustees or attorneys) of persons required to notify must sign the form and provide a mailing address (if different than address in item A). For other persons providing notification, the signature is optional. Check the boxes which best describe the relationship to the site of the person required to notify. If you are not required to notify check "Other".

Name John W. Covington VP/Manufacturing
John W. Covington

Street P.O. Box 1257

City Chattanooga State Tn Zip Code 37402

Signature [signature] Date 6/8/81

☐ Owner, Present
☐ Owner, Past
☐ Transporter
☐ Operator, Present
☐ Operator, Past
☐ Other