

**MONROE COUNTY
SOLID WASTE REGIONAL PLAN**

As Required By

The Solid Waste Management Act of 1991

T.C.A. 68-211-813 (c) and 68-211-815

Monroe County Regional Solid Waste Board

July 1994

MONROE COUNTY REGIONAL SOLID WASTE EXECUTIVE SUMMARY

The State of Tennessee passed the Solid Waste Management Act in 1991, which required the formation of municipal solid waste planning regions. In accordance with the solid waste management act, Monroe County formed a single county region. The Monroe County Solid Waste Board sees the need for some regionalization, but at the present time the uncertainties of surrounding Counties made it unlikely to form any alliances involving solid waste. Furthermore, Monroe County is currently permitting a Class IV landfill and the board felt that they could have better control of the waste stream, if they remained at single county region at this time. The Monroe County Solid Waste Board is made up of the following people, who represent the County and Cities in the region of Monroe County: Chairman Brian Tallent, Vice-Chairman David Cleveland, Joe Helms, R.W. West, Ralph Teague, Glen Moser, Joe Courtney, Dwayne Cardin and Betty Sparks.

After completion of the needs assessment done in 1992 by the East Tennessee Development District with the help of various county and city officials, the Solid Waste Board began dissecting the gathered information and formulating a solid waste plan. It should be noted that County Executive Allan Watson and Administrative Assistant Sandra Ray provided extensive help on the plan, which allowed for a continuous line of communication between the Solid Waste Board and the County Commission. Using the State guidelines, the Monroe County Regional Solid Waste Management Plan consists of five major components: waste reduction, collection disposal, recycling and education. In the following discussion each component will be looked at in terms of what is currently in place, what is needed to meet State guidelines and what is being planned for in the ten (10) year planning period.

Before we begin our discussion some terminology and background information is needed on the Monroe County region. The region of Monroe County is 635.2 square miles and has a population of 31,105. The urban population consist of the following municipalities: Madisonville, Sweetwater, Tellico Plains and Vonore which make up 26.5% of the total population of Monroe County.

Throughout the discussion you will see the terminology Class I, Class II, Class III and Class IV landfills being used to discuss the solid waste management plan. A Class I landfill is a sanitary landfill which serves a municipal, institutional and/or rural population and is used for disposal of domestic wastes, commercial wastes, institutional wastes, municipal wastes, bulky wastes, landscaping and land clearing wastes, industrial wastes, construction\demolition wastes, farming wastes, discarded automotive tires and dead animals. To sum it up, basically, just about anything can go into a Class I landfill. A Class II disposal facility is a landfill which receives waste which is generated by one or more industrial or manufacturing plants and is used for the disposal of solid waste generated by such plants. A Class III disposal facility is a landfill which is used for the disposal of farming wastes, landscaping and land clearing wastes and/or certain special wastes having similar characteristics. The Class IV landfill is used for the disposal of construction\demolition wastes and/or certain special wastes having similar characteristics.

The first component that we will look at is Waste Reduction. Monroe County currently produces nearly 21,494 tons of waste per year that goes to the publicly owned and operated Class I landfill that will be closed by October, 1996. Monroe County also has nearly 26% of un-managed waste that is not going into the Class I landfill, but instead the waste is being discarded along the roadsides and over the mountain bluffs. The Solid Waste Board feels that this un-managed waste could be controlled through education of the public and the placement of convenience centers in the region. The region of Monroe County currently has no publicly supported or operated waste reduction programs, but some private individuals dabble in composting and some industries and commercial establishments have some in-house recycling programs that divert an estimated 20% of waste from the Class I landfill. The State of Tennessee is requiring that all regions meet a 25% reduction of waste from the Class I landfill. The Solid Waste Board feels that there are three ways that the region of Monroe County can meet this 25% reduction goal: source reduction, waste diversion, and recycling. Source reduction is basically the ability to not use virgin material and reuse material, which will help the environment and keep additional items from reaching the Class I landfill. The Solid Waste Board feels that the region can get a 1% reduction of waste from this concept. The Solid Waste Board has contacted CIS with the State and they have assisted some industries to set up their own recycling programs and develop source reduction plans where feasible.

Budget:

A ten year budget, including both capital and annual operating costs, has been prepared below to summarize the total costs of constructing and operating a Class IV landfill.

Table IV-4

Capital and Operating Costs for Waste Reduction Strategies (Class IV Landfill)

Class IV Landfill	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs::										
Equipment Replacement Fund:			\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Total Capital Costs:			\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Operation Costs:										
Operation & Maintenance:			\$69,977	\$69,977	\$69,977	\$69,977	\$69,977	\$69,977	\$69,977	\$69,977
Personnel:			\$42,640	\$42,640	\$42,640	\$42,640	\$42,640	\$42,640	\$42,640	\$42,640
Sub-Total:			\$ 112,617	\$112,617	\$112,617	\$112,617	\$112,617	\$112,617	\$112,617	\$112,617
Cost-of-living:				\$3829	\$7658	\$11,487	\$15,316	\$19,145	\$22,974	\$26,803
Total Operation Costs:			\$112,617	\$116,446	\$120,275	\$124,104	\$127,933	\$131,762	\$135,591	\$139,420
Sinking Fund:			\$36,000	\$36,000	\$36,000	\$36,000	\$36,000	\$36,000	\$36,000	\$36,000
Total Capital and Operation Costs:			\$223,617	\$227,446	\$231,275	\$235,104	\$238,933	\$242,762	\$246,591	\$250,420

Source: Draper Aden Associates: December 17, 1993. Cost Est. Study for Monroe County

Based on 3.4% inflation and Cost-of-living increases.

Budget Information for Class IV landfill

1. Equipment Replacement: Based on equipment being replaced every seven years.

2. Operations & Maintenance: The following is the breakdown on the O&M cost:

1. Fuel & Utilities	=	\$21,000
2. Maintenance	=	\$15,000
3. Supplies	=	\$5,000
4. Professional Ser.	=	\$5,000
5. Insurance	=	\$10,000
6. Professional Dev.	=	\$2,000
7. State Maint. Fee	=	\$2,000
8. State Sur. Tax	=	\$3,616
9. Contingencies (10%)=		\$6,362
Total	=	\$69,977

3. All capital construction work has been completed on the Class IV landfill site.

D. 10-Year Budget

A ten year budget, including both capital and annual operating costs, has been prepared below to summarize the total costs of the regional recycling program. The proposed budget assumes public sector capital and operational costs. All system costs should be evaluated against solicited bids from the private sector to achieve the most cost-effective approach for service delivery.

Table VI-2
Annual Capital and Operating Costs for Recycling Program in Region of Monroe County

Program:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Equipment:		\$8954	\$4477	\$4477	\$	\$	\$	\$	\$	\$
Equipment Replacement Fund:		\$	\$	\$	\$2558	\$2558	\$2558	\$2558	\$2558	\$2558
Total Capital Costs:		\$8954	\$4477	\$4477	\$2558	\$2558	\$2558	\$2558	\$2558	\$2558
Operational Costs:										
Personnel:*										
Transportation:		\$4000	\$4000	\$4000	\$4000	\$4000	\$4000	\$4000	\$4000	\$4000
Education:		\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000
Total Operational Costs:		\$5000	\$5000	\$5000	\$5000	\$5000	\$5000	\$5000	\$5000	\$5000
Total Capital & Operational Costs:		\$13,954	\$9477	\$9477	\$7558	\$7558	\$7558	\$7558	\$7558	\$7558

Budget Information

Assumptions:

1. Recycling Containers = \$4477 for a 4 compartment roll-off.
2. Personnel cost is shown on the convenience center budget.
3. Recycling drop-offs will be integrated with the convenience center sites.
4. Transportation = 400 miles/week x 12 cents a mile = maintenance costs.
5. Recyclables possibly transported to Tennessee Vocational Center in Alcoa or Athens Recycling Center in McMinn County (no resale value).

To summarize the components: waste reduction and recycling are new avenues that the region of Monroe County will be exploring in the future. The Solid Waste Board will play an important role by looking at other program already established and learn form their experiences in order to provide the best possible waste reduction program for the region of Monroe County. To reiterate, currently the region of Monroe has no public waste reduction or recycling program in place. The State of Tennessee is requiring that waste going into Class I landfills be reduced by 25% in the year 1995. Also, the State is requiring at least one recycling drop of site to be established by 1996. The region of Monroe County plans to meet these requirements through the use of source reduction, waste diversion and recycling that will reduce the waste going into the Class I landfill by 29%. The regional plan will also implement recycling drop offs sites at all of the constructed convenience centers.

The next component is collection of which the cities and private haulers make up the current system in the region of Monroe County. Currently, nearly 16,533 residents have door-to-door collection of waste, which still leaves 14,203 or 46% of the residents in Monroe County without garbage service. Using the State formula for the minimum level of solid waste collection service required in the region, the region of Monroe County must have at least one convenience center in place by January 1, 1996. The Solid Waste Board feels that to better serve the public the solid waste plan should provide a total of three convenience centers, phased in over the next 10 year budget period. The Capital and Operating Cost of these centers can be seen on the next page. These convenience centers will allow other components to be integrated into a more complete solid waste system. Such elements as recycling and household hazardous waste drop-off sites at the centers, will make the solid waste management plan and its components more accessible to the general public. The cities will continue to proved door-to-door collection along with the private haulers and may utilize the convenience centers for their recycling of materials, until a door-to-door recycling effort becomes feasible.

In summary, currently the region of Monroe has no county wide collection program for its citizens. The State of Tennessee is requiring that at least one State certified convenience center to be established by 1996. The region solid waste plan is calling for three convenience centers to be built over the next 10 year planning period.

Table V-2

Annual Capital and Operation Costs for Collection System *

Program System:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Property Acq.:		\$4000	\$4000	\$4000						
Construction:		\$28,400	\$28,400	\$28,400						
Equipment:		\$7394	\$7394	\$7394						
Sinking Fund:		\$3169	\$3169	\$3169	\$3169	\$3169	\$3169	\$3169	\$3169	\$3169
Total Capital Cost:		\$42,963	\$42,963	\$42,963	\$3169	\$3169	\$3169	\$3169	\$3169	\$3169
Operational Costs:										
Personnel:		\$9100	\$18,200	\$27,300	\$27,300	\$27,300	\$27,300	\$27,300	\$27,300	\$27,300
Transportation		\$9635	\$9635	\$9635	\$9635	\$9635	\$9635	\$9635	\$9635	\$9635
Sub-Total Operation Costs:		\$18,735	\$27,835	\$36,935	\$36,935	\$36,935	\$36,935	\$36,935	\$36,935	\$36,935
3.4% C.L.I.			\$946	\$2512	\$3767	\$5023	\$6279	\$7535	\$8791	\$10,046
Total Operational Cost:		\$18,735	\$28,781	\$39,447	\$40,702	\$41,958	\$43,214	\$44,470	\$45,726	\$46,981
Total Capital & Operational Costs:		\$61,698	\$71,744	\$82,410	\$43,871	\$45,127	\$46,383	\$47,639	\$48,895	\$50,150

* Specific information used to develop cost is on the next page.

** Table based on convenience centers being built on a phase in plan.

The following represents an explanation of the budget for the convenience centers.

Property Acquisition: This is the cost to buy 2 acres of land.

Construction: The following is a breakdown on the construction:

1. Building = \$5600 for a 160 sq.ft. building.
2. Fencing = \$12,300 for 1230 ft. of fencing.
3. Crushed Rock = \$6500 for 1 acre of crushed stone.

Equipment: 1. 40 cu.yd. open top roll off = \$3260

2. 42 cu.yd. receiver = \$4134

Assuming that we will use the transfer trailer at the transfer station for hauling of waste.

Sinking Fund: This is the cost to put money back for replacement of equipment every seven years.

Personnel: Assuming convenience centers will be open 28 hrs a week, one man per center at \$5/hr + 25% fringe benefits.

Transportation: Assuming 20 miles round, 3 trips per day for 259 days a year.

The next component is disposal of which the region currently has a Class I landfill that will be closed by October, 1996. The Solid Waste Board looked at the possibility of constructing a new Class I landfill, but due to the volatile state of landfills and the new State regulations felt that this would not be an economically feasible situation at this time. The Solid Waste Board is looking at building a transfer station to haul the regional waste of Monroe County to a Class I landfill not owned by the County. Depending on the final site selection for the transferring of Class I waste, a transfer station may not be needed with direct hauling of waste from the convenience centers. The following 10-year budget shows the capital and operating costs of a transfer station for the region of Monroe County.

Table V-3

Annual Capital and Operating Costs for Transfer Station

Program System:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Construction:			\$222,000							
Equipment:			\$326,000							
Equipment Replacement Fund:				\$64,266	\$64,266	\$64,266	\$64,266	\$64,266	\$64,266	\$64,266
Total Capital Costs:			\$548,000							
Operational Costs:										
Personnel:			\$79,300	\$79,300	\$79,300	\$79,300	\$79,300	\$79,300	\$79,300	\$79,300
Transportation:			\$89,925	\$89,925	\$89,925	\$89,925	\$89,925	\$89,925	\$89,925	\$89,925
Disposal Fee:			\$249,600	\$249,600	\$249,600	\$249,600	\$249,600	\$249,600	\$249,600	\$249,600
Sub-Total			\$418,825	\$418,825	\$418,825	\$418,825	\$418,825	\$418,825	\$418,825	\$418,825
3.4% CLI				\$14,240	\$28,480	\$42,720	\$56,960	\$71,200	\$85,440	\$99,680
Total Operational Costs:			\$418,825	\$433,065	\$447,305	\$461,545	\$475,785	\$490,025	\$504,265	\$518,505
Total Capital and Operational Costs:			\$966,825	\$497,331	\$511,571	\$525,811	\$540,051	\$554,291	\$568,531	\$582,771

* Budget Information on next page.

Budget Information

Assumptions:

1. 8,000 households serviced.
2. 40 lbs./household/week = 8320 tons/year disposed for 8,000 households.
3. landfill fee = \$30/ton for transfer station.
4. transportation cost include collection and loading time.
5. Transportation cost for Transfer Station =
\$1.23/ton collection + \$15/ton transportation = \$16.23/ton x 8230 residential tons.
6. 3.4% cost of living increase for operational costs (U.S. Department of Labor, Bureau of Labor Statistics, 1993).
7. Solid Waste Coordinator = \$10/hr
Mechanic = \$8/hr
Operator = \$8/hr
Drivers = \$8/hr

The final component and probably the most important component is education. If the public is not aware of or is not taught the importance of proper solid waste practices, then all of the other components will be unsuccessful. The region of Monroe County has just recently hired a full time director for their Keep America Beautiful solid waste education program. The director of the education program will be instrumental in implementing and facilitating the solid waste plan over the next 10 year planning period. The following 10-year budget represents the capital and operating expenses of the education program.

Table IX-1

Annual Capital and Operating Costs for Education Program in Region of Monroe County

Program:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Audio/Visual Equipment:	\$600	\$1500							\$1500	
KAB Franchise Fee:	\$2500									
Equipment:	\$1000	\$4000	\$1000	\$1000						
Total Capital Costs:	\$4100	\$5500	\$1000	\$1000					\$1500	
Operational Costs:										
Personnel:	\$9000	\$20,000	\$24,000	\$26,000	\$28,000	\$31,000	\$34,000	\$35,590	\$37,000	\$39,000
General office, phone, etc.	\$800	\$1000	\$1250	\$1300	\$1400	\$1500	\$1600	\$1700	\$1800	\$2000
Promotions, publications, etc.:	\$650	\$1000	\$1200	\$1500	\$1750	\$2000	\$2225	\$2500	\$2750	\$3000
Teacher In-Service:	\$1500	\$2250	\$2350	\$2500	\$2600	\$2750	\$3000	\$3000	\$3250	\$3250
Travel/Training:	\$300	\$2250	\$2350	\$2500	\$2600	\$2700	\$2800	\$2900	\$3000	\$3100
Local Mileage::	\$1000	\$1100	\$1200	\$1300	\$1400	\$1500	\$1600	\$1700	\$1800	\$1900
KAB Annual Fee:		\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250
Total operational costs:	\$8800	\$10,392	\$10,733	\$11,075	\$11,417	\$11,759	\$12,100	\$12,442	\$12,784	\$13,125
Total Capital & Operational Costs:	\$17,350	\$33,350	\$33,750	\$36,350	\$38,150	\$41,700	\$45,475	\$47,550	\$51,350	\$52,500

Finally, household hazardous waste (HHW), which for our purposes is used motor fluids and oil filters, but eventually may progress into paint and aerosol cans, etc, needs to be addressed. The region of Monroe County currently does not have a permanent HHW site, but utilizes the State's mobile equipment twice a year. With the exception of tires, all other HHW material is being handled by the private sector. The Solid Waste Board feels that eventually HHW drop-off sites should be integrated into all of the convenience centers. This will be phased in over the next 10-year planning period.

In summary, the region of Monroe County has a lot of deficiencies that need to be addressed in the next ten year planning period. The Solid Waste Board feels that they have come up with a 10 year plan that will solve these deficiencies in the most economical manner possible for the region. The following 10 year budget will show you the overall cost of operating the solid waste management plan for the next 10 year planning period.

Budget

Components:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Class IV Landfill:			\$223,617	\$227,446	\$231,275	\$235,104	\$238,933	\$242,762	\$246,591	\$250,420
Transfer Station:			\$966,825	\$497,331	\$511,571	\$525,811	\$541,051	\$554,291	\$568,531	\$582,771
Convenience Centers:		\$61,698	\$71,744	\$82,410	\$43,871	\$45,127	\$46,383	\$47,639	\$48,895	\$50,150
Recycling:		\$13,954	\$9477	\$9477	\$7558	\$7558	\$7558	\$7558	\$7558	\$7558
Education:	\$17,350	\$33,350	\$33,750	\$36,350	\$38,150	\$41,700	\$45,475	\$47,550	\$51,350	\$52,500
Total Components:	\$17,350	\$109,002	\$1,305,413	\$853,014	\$794,275	\$855,300	\$879,400	\$899,800	\$922,925	\$943,399
Landfill Closure Costs:	\$491,208	\$773,826	\$617,976	\$149,544	\$8152	\$8560	\$8988	\$9437	\$9909	\$10,404
Total Costs:	\$508,558	\$882,828	\$1,923,389	\$1,002,558	\$802,427	\$863,860	\$888,388	\$909,237	\$932,834	\$955,803

2a. The Class IV landfill could be financed through a grant/loan from farmer's home over a 30 year period, which should coincide with the life of the landfill.

b. The closure of the Class I landfill will be funded in part by tipping fees at the transfer station and the rest will be absorbed in the general fund.

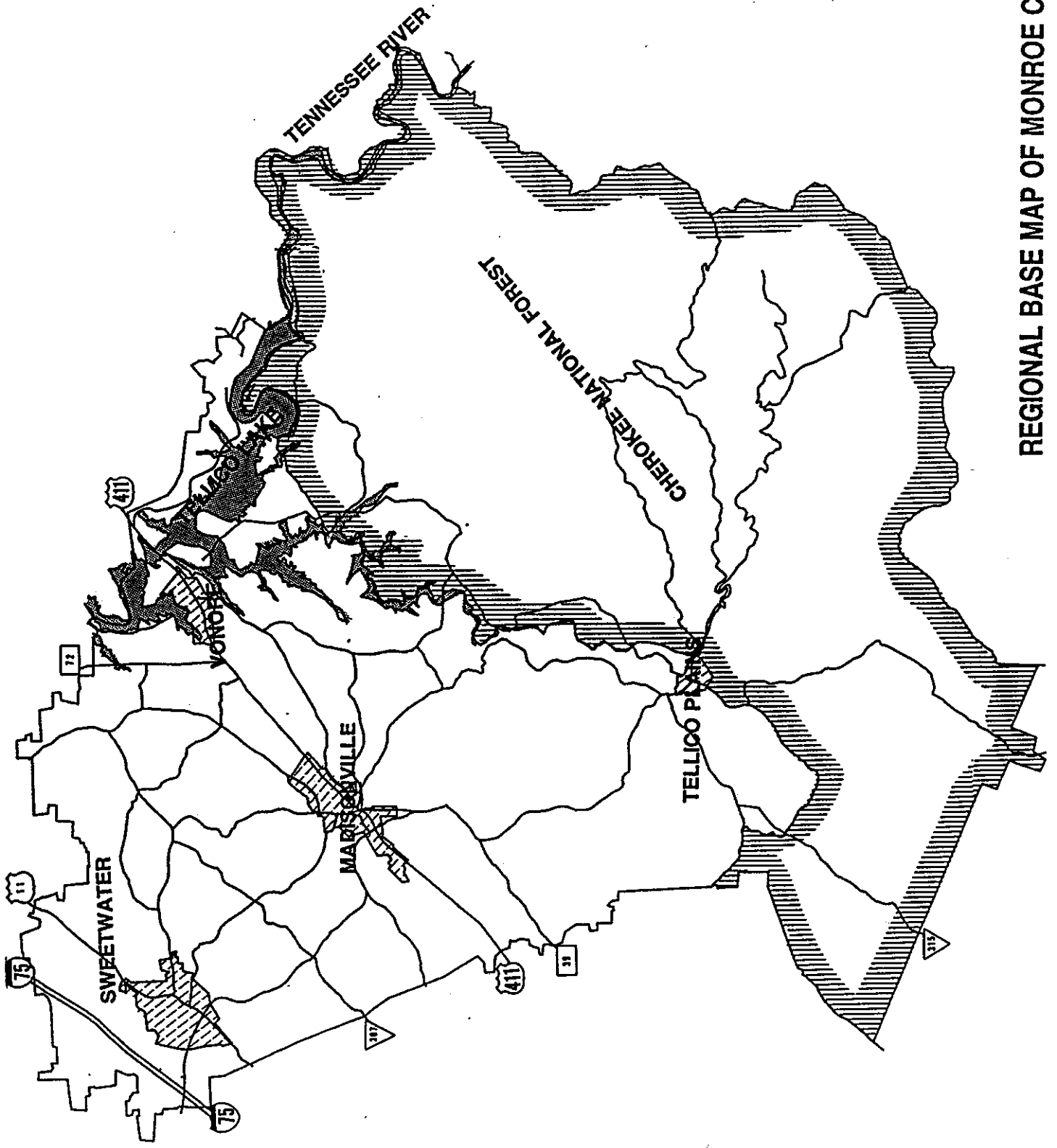
c. The transfer station will be funded in part by tipping fees and the rest will be absorbed in the general fund.

d. The convenience centers will be financed in part by a State grant and the rest by user fees.

e. The integration of the recycling into the convenience centers will be financed through grants from the State.

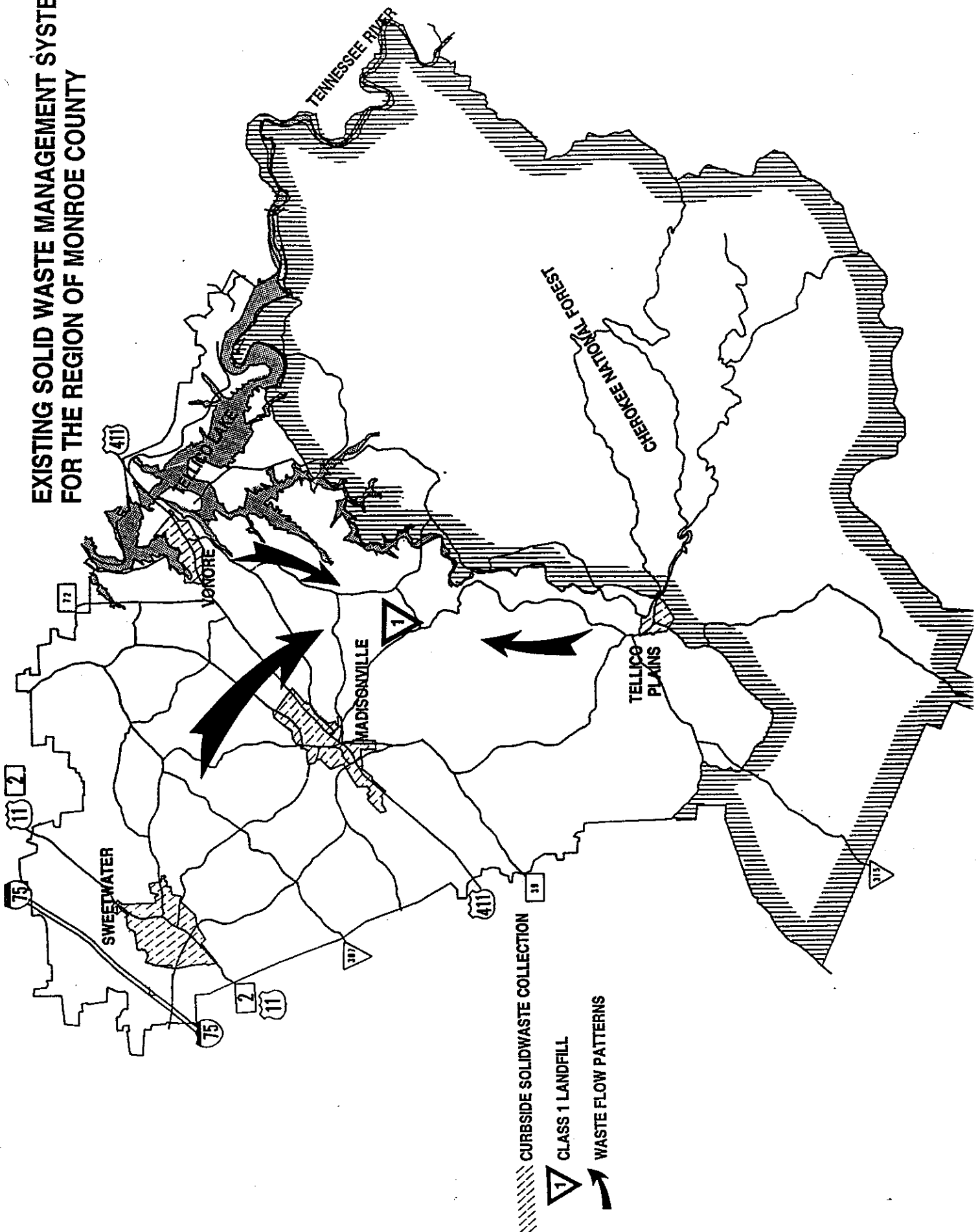
Maps

1. Regional Base Map
2. Existing System Map
3. Proposed System Map
4. Education System Map



REGIONAL BASE MAP OF MONROE COUNTY

EXISTING SOLID WASTE MANAGEMENT SYSTEM FOR THE REGION OF MONROE COUNTY

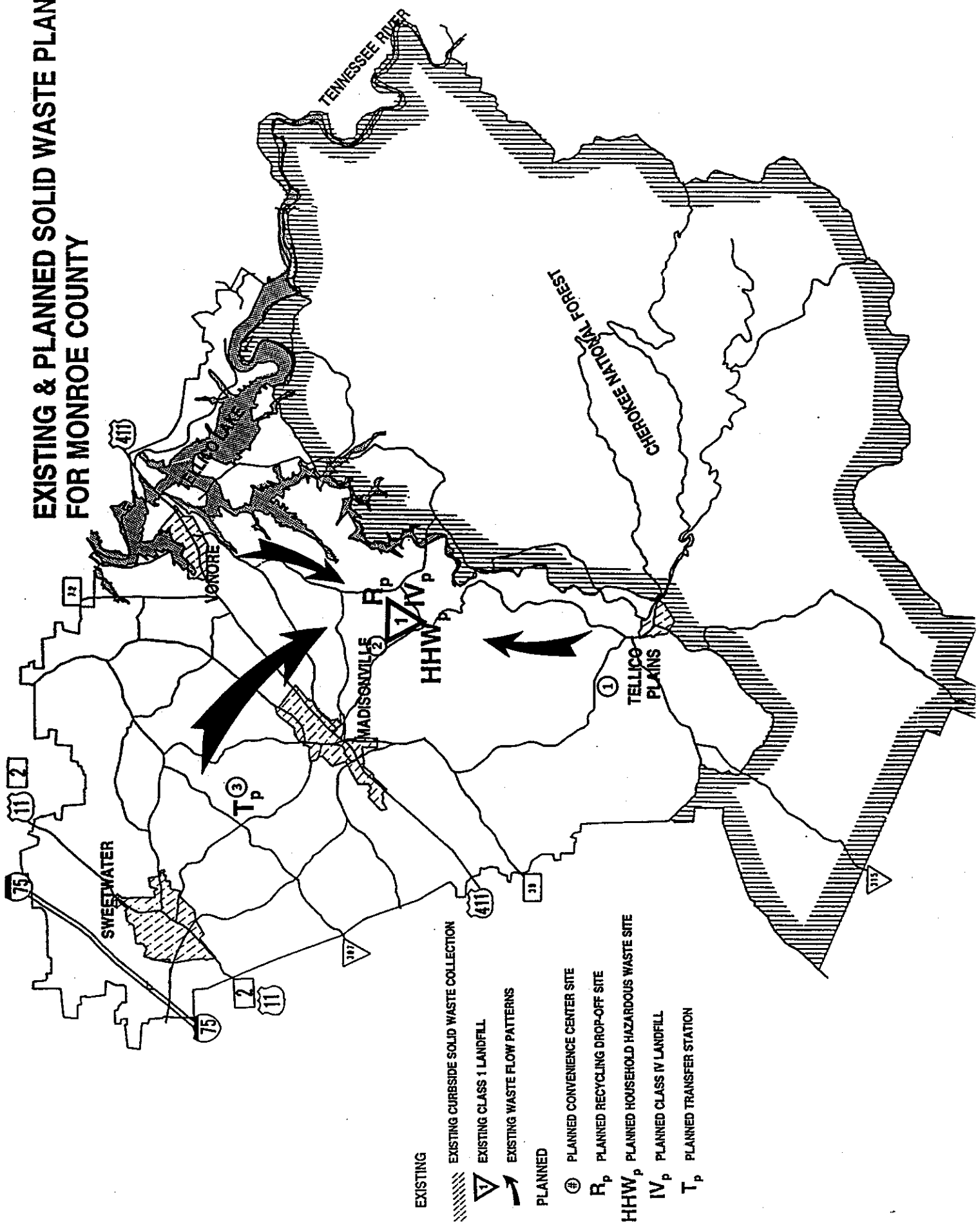


CURBSIDE SOLIDWASTE COLLECTION

CLASS 1 LANDFILL

WASTE FLOW PATTERNS

EXISTING & PLANNED SOLID WASTE PLAN FOR MONROE COUNTY



EXISTING

EXISTING CURBSIDE SOLID WASTE COLLECTION

EXISTING CLASS 1 LANDFILL

EXISTING WASTE FLOW PATTERNS

PLANNED

⊕ PLANNED CONVENIENCE CENTER SITE

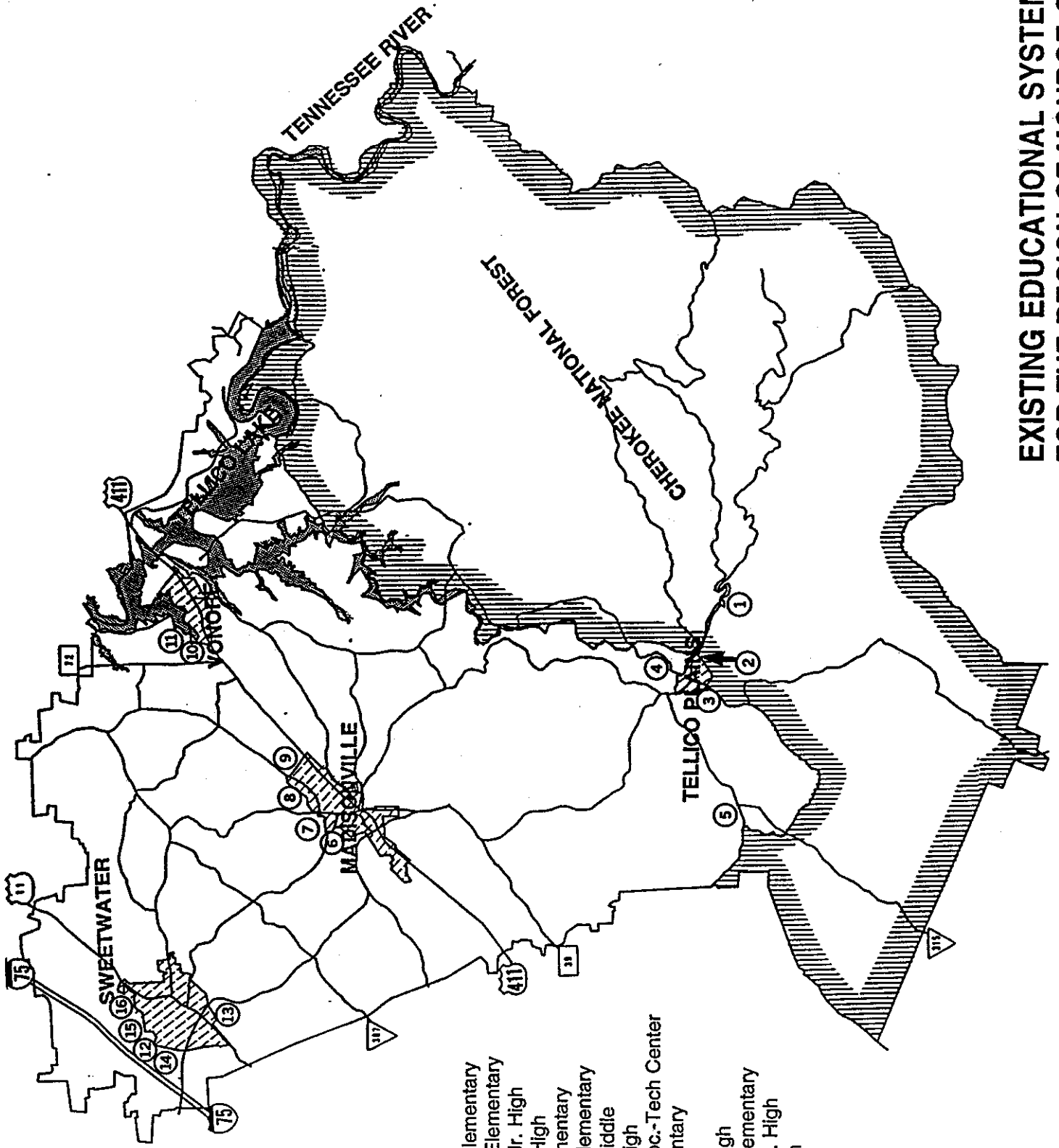
R_p PLANNED RECYCLING DROP-OFF SITE

HHW_p PLANNED HOUSEHOLD HAZARDOUS WASTE SITE

IV_p PLANNED CLASS IV LANDFILL

T_p PLANNED TRANSFER STATION

EXISTING EDUCATIONAL SYSTEM FOR THE REGION OF MONROE COUNTY



1. Coker Creek Elementary
2. Tellico Plains Elementary
3. Tellico Plains Jr. High
4. Tellico Plains High
5. Rual Vale Elementary
6. Madisonville Elementary
7. Madisonville Middle
8. Madisonville High
9. Monroe Co. Voc.-Tech Center
10. Vonore Elementary
11. Vonore High
12. Sweetwater High
13. Sweetwater Elementary
14. Sweetwater Jr. High
15. Brown Jr. High
16. TMG (Japan)

Implementation

Schedule

1. Recycling
2. Collection
3. Disposal
4. Education
5. Household Hazardous Waste

Ten Year Implementation Schedule for Recycling Program

Recycling:	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Encourage Industrial/ Commercial	X										County / CIS	N/A	N/A
Integrate Recycling with Convenience Centers		X		X	X	X	X	X	X		County	\$4,477	General Fund/ Tipping Fees
Integrate Recycling with Door-to-Door Collection	X	X									Cities	\$20,000	Solid Waste Fee
Educate the Public	X										Education Coordinator	\$15,000	State Grants/ Private Donations
Purchase Recycling Equipment		X									County / Cities	\$20,000	State Grants
Join R.M.C.E.T.		X									County	\$10,000	Sale of Recyclable
Communicate with Office of Cooperative Marketing		X									Solid Waste Board	N/A	N/A
Plan Updates	X					X					Solid Waste Board	N/N	N/A
Annual Reports and Data Collection	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

____Ten Year Implementation Schedule for Collection Program

Collection:	9 4	9 5	9 6	9 7	9 8	9 9	0 0	0 1	0 2	0 3	Responsible Party	\$ Annual Amount	Funding Source
Continue Door to Door Collection	X										Cities & Private Haulers	Varies	Solid Waste Fee
Establish Standards for Private Haulers		X									State	N/A	N/A
Construct & Purchase Equipment for Convenience Centers			X	X	X						County	\$41,300	State Grant and General Fund
Manned Convenience Centers	X										County	\$120,907	General Fund
Certification of Staff			X								State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Disposal of Solid Waste

Disposal	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Closure of Monroe County Class I Landfill			X								County	\$141,790	Tipping Fees
Post Closure Care				X	X	X	X	X	X	X	County	\$8000	Tipping Fees
Construction of Transfer Station			X								County	\$222,000	Tipping Fees
Purchase of Equipment			X								County	\$326,000	General Fund
Consider Transferring Ownership to a Solid Waste Authority				X							County	N/A	N/A
Training Personnel			X								State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Report	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

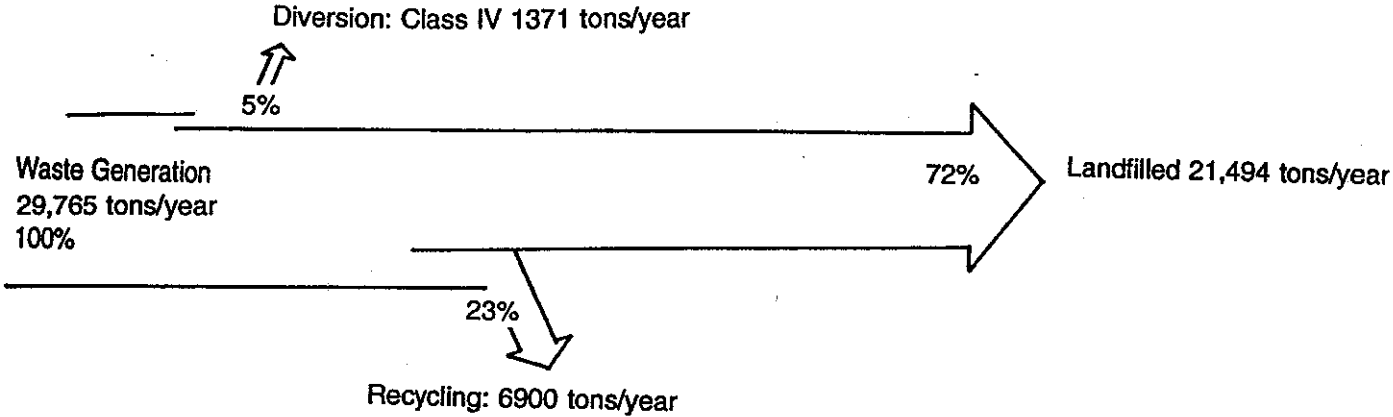
Ten Year Implementation Schedule for Education Program

Education	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Enforce Illegal Dumping	X										County Court	N/A	N/A
Establish KAB Franchise	X										Solid Waste Board	\$2,000	General Funds
Hire Education Coordinator	X										County	\$15,000	General Fund
Educate the Target Groups		X									Education Coordinator	\$1,500	State Grants / Private Donation
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Household Hazardous Waste

HHW	9 4	9 5	9 6	9 7	9 8	9 9	0 0	0 1	0 2	0 3	Responsible Party	\$ Annual Amount	Funding Source
Use State's Mobile Equipment	X										Solid Waste Board	\$1,000	Tipping Fee
Publicize HHW Sites	X										Solid Waste Board	\$1,000	Tipping Fee
Continue Use of Tire Storage Site	X										County	\$15,000	State Grant\ Tipping Fees
Integrate HHW Sites with Convenience Centers			X	X	X						County	\$1,000	State Grant
Contract with Private Hauler For Disposal of HHW		X									County	\$500	Tipping Fee
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	N/A

FLOW DIAGRAM FOR MONROE COUNTY REGION:



MONROE COUNTY SOLID WASTE REGIONAL PLAN

Introduction:

The Solid Waste Management Act of 1991 required the formation of municipal solid waste planning regions, based on the recommendations of a District Needs Assessment prepared under the leadership of the state's nine Development Districts. The planning regions were formed by the end of December 1992.

The purpose of the District Needs Assessment was threefold: (1) to carry out an inventory and analysis of the existing solid waste management system; (2) to define needs for additional services and facilities for the next ten years; and (3) to recommend rational waste disposal areas, which would provide the nucleus for a municipal solid waste planning region.

The purpose of the regional plan is to set forth how planning regions will meet these needs. The regional plan is based on the inventory of facilities, services and programs provided in the District Needs Assessments. The planning region defines its specific needs--quantitatively.

It was only necessary to revise the data collected in the District Needs Assessment when there was a significant change in waste generation or management capacity, in the intervening year, which was not projected in the Assessment (for example, the sudden closure of a major industry, or construction of a new processing facility). The regional plan utilizes Tables from the District Needs Assessments, where appropriate.

The regional plan is more specific and more detailed than the District Needs Assessment. The regional plan addresses all required plan elements and follows the organization format set forth in the Guidelines for Preparation of a Municipal Solid Waste Regional Plan, prepared by The Tennessee State Planning Office. Much of the plan consists of narrative and may be supported by tables, figures, and maps prepared by the Region. The planning horizon is 1994-2003.

The plan consists of three parts: (1) an Executive Summary; (2) a detailed plan; and (3) Appendices.

The plan was submitted to the State Planning Office, after a public hearing had been conducted in the Region.

The Statutory Authority requiring preparation of the plan and describing its content is found in the following sections of the Tennessee Code Annotated: T.C.A. Sections 68-211-813(c); 68-211-814(a); 68-211-814(b)(6); 68-211-815; 68-31-851(b); 68-211-861(f); 68-211-842; 68-211-871(a) and (b); and indirectly, in 68-211-866(b); and 49-7-121.

C. INSTITUTIONAL STRUCTURE:

The description institutional structure of the Monroe County Solid Waste Regional Board, the Administrative Board of the Region, includes details on its membership and their authority and duties. The following individuals are members of the Monroe County Solid Waste Regional Board. The board members, their representation and term of office are listed as follows:

<u>Member</u>	<u>Representation</u>	<u>Term of Office</u>
Brian Tallent	County (<i>Chair</i>)	6
David Cleveland	County (<i>Vice-Chair</i>)	6
Joe Helms	County (<i>Secretary</i>)	6
R. W. West	County	4
Ralph Teague	County	6
Glen Moser	Madisonville	4
Joe Courtney	Sweetwater	2
Dwayne Cardin	Tellico Plains	2
Betty Sparks	Vonore	2

The Solid Waste Board coordinates with local government by having City and County representatives on the Board. The County Executive regularly attends meetings which encourages information to be exchanged between the County Commission and the Board during the planning process. Three members of the Board are County Commissioners (R. W. West, Joe Helms and David Cleveland). These Commissioners also serve to encourage dialogue between the Board members and other County Commissioners. In addition, the City representatives report to their respective councils.

Solid waste management workshops and seminars have been held in the County to bring the Board members into contact with local government officials, and public citizens including industrialists and business people. Meetings are advertised and the public is encouraged to attend. A Solid Waste Advisory Committee has also been established to further link the solid waste board with the public by encouraging local input on the plan.

The Solid Waste Advisory Committee is composed of private citizens who were recommended to serve on the committee by Solid Waste Board members. The Advisory Committee assists the Solid Waste Board in collecting data and determining options for the following sub-committees: Public Education, Finance, Collection, Reduction, and Disposal/Waste Flow. Solid Waste Advisory Committee members include: Shane Burris, Sandra Ray, Larry Hicks, Marsha Standridge, Wayne Covington, Donnie Chambers, Rex Yates, Gary Kimsey, Bette Tedford, and J. Allan Watson.

D. DEMOGRAPHICS:

The current population for the Region, according to U.S. Census Bureau projections, is noted below. Following, are Tables featuring data on average population density, population distribution, housing occupancy, and projected populations.

Name of Region: Monroe County
Regional Population: 31,105 (1993)
Regional Area: 635.2 square miles

CHAPTER I.

DESCRIPTION OF THE MUNICIPAL SOLID WASTE REGION

A. GENERAL DESCRIPTION:

The County and municipalities in the Region include: Monroe County; Madisonville (town); Sweetwater (city); Tellico Plains (town); Vonore (town). The total area in the Region (Monroe County) is 635.2 square miles, or 421,200 acres. The major physiographic features of Monroe County include: the Cherokee National Forest, which is part of the southwestern half of the Great Smoky Mountain section of the Appalachian Mountain Range (Harlan Mountain, Starr Mountain, Cataska Mountain, Whigg Ridge, and Rough Ridge); two ridges known as The Knobs and Bat Creek Knobs; Little Tennessee River; Chilhowee Lake; Tellico Lake; Tellico River; North River; Bald River; and a series of creeks, many of which originate in the mountains.

The breakdown of land uses in the Region are as follows:

Commercial	Residential	Industrial	Recreational	Agricultural	Public	Forest
140 acres	3,130	420	145,700	169,800	2,930	99,080
0.04%	0.8%	0.1%	34.6%	40.3%	0.7%	23.5%

Source: *The East Tennessee Development District Land Use Plan: 1979-2000.*

Note: The information in the above table is from the last comprehensive land use report for Monroe County, dating from 1970. Therefore this does not accurately reflect recent changes which include, the construction of Tellico Lake, the widening of several highways, and the commercial growth along new interchanges.

A Regional base map, indicating political boundaries, major roads and waterways is provided in Chapter 2.

B. RATIONALE FOR REGION FORMATION:

As specified in the Solid Waste Management Act (T.C.A. Section 68-211-815(b)(12)), there are specific reasons to be stated as to why Monroe County failed to adopt a multi-county region. After the completion of the Needs Assessment in 1992, Monroe County chose to form a single-county solid waste region in 1993 for several reasons.

The initial rationale for forming a single-county region was due to the fact that Monroe County was in the process of permitting additional acreage for a Class 1 landfill adjacent to the existing landfill. Another reason the County opted to form a single-county region is because contiguous counties (Loudon and Blount) chose to form a single-county regions leaving Monroe County little choice in forming a multi-county region with another contiguous county in Tennessee.

Table I-1

Average Population Density

County	Area (Sq. Miles)	1993 Population	Avg. Density Population/sq.miles
Monroe	635.2	31,105	49.0
Regional Total	635.2	31,105	49.0

Table I-2

**Distribution of the Total Regional Population, by Urban and Rural Areas
(1993 Projection)**

County	Urban		Rural	
	Population	%	Population	%
Monroe	8,243	26.5	22,862	73.5
Regional Total	8,243	26.5	22,862	73.5

Table I-3

Distribution of Total Regional 1990 Population by Sex and Age

Age	Total	Male	%	Female	%
0 - 4	1,958	1,018	52.0	940	48.0
5 - 17	5,773	2,934	50.8	2,839	49.2
18 - 44	12,165	6,013	49.4	6,152	50.6
45 - 64	6,456	3,138	48.6	3,318	51.4
65 +	4,189	1,736	41.4	2,453	58.6
REGIONAL TOTAL	30,541	14,839	48.6	15,702	51.4

Source: 1990 Census

Table I-6

Regional Population Projections 1994 - 2003

Projection Year

County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Monroe	31,289	31,493	31,661	31,855	32,034	32,224	32,409	32,554	32,683	32,828
Regional Total	31,289	31,493	31,661	31,855	32,034	32,224	32,409	32,554	32,683	32,828

Note: Regional Population 1993: 31,105

Source: *University of Tennessee, Department of Sociology, November 17, 1992.*

According to the population projections compiled by the University of Tennessee, Department of Sociology, Monroe County's population will increase 6.2% between 1990 and 2000 and 4.4% between 2000 and 2010. It is anticipated that the municipalities within the County will decline in population during the next two decades unless major annexations occur. This decline is due to the limited amount of new construction and an overall decline in household size. Greater emphasis on County collection and disposal services will be needed with major increases in population slated for the rural areas of the County.

Between 1980 and 1990, Monroe County's population increased 6.4%. All areas of the County experienced a growth in population. The municipalities of Madisonville and Vonore's population increased 5.2% and 14.6% respectively. On the other hand, the municipalities of Sweetwater and Tellico Plains' population declined 2.1% and 5.9% respectively. With major increases in population projected outside the municipalities for the next 10 years, greater emphasis will need to be given to solid waste planning in the rural areas. Although the last decade experienced growth in Madisonville and Vonore's population, future trends suggest further growth to be concentrated outside the municipalities. Generated waste will likely increase which will place demands on County collection and disposal services.

E. ECONOMIC ACTIVITY

The following information concerns basic economic activity for Monroe County. The following Tables include data on agricultural and non-agricultural employment, employers by industry, health care facilities, local revenue sources, assessed property values, property tax revenue, local sales and sales tax revenues, and number of registered of vehicles.

Table I-7

Basic Economic Information for the Region of Monroe County

County	1993 Population¹	MSA County (yes/no)	Total Employment²	Total Earnings²	Per Capita Income²	% Population Below the Poverty Line³
Monroe	31,105	No	12,891	\$371,682,000	\$12,017	17.8%
Regional Total	31,105	No	12,891	\$371,682,000	\$12,017	19.1%

Source: ¹ University of Tennessee, Department of Sociology, November, 1992
² Bureau of Economic Analysis, U.S. Department of Commerce, 1991
³ 1990 Census

Table I-8

Total Non-Agricultural Employment by Sector and % of Total Employment

County	Manufacturing	Construction	Trade	Finance	Service	Govt.	Transportation Pub. Utilities
Monroe	3,956	523	2,372	694	2,310	1,314	358
Regional Total	3,956	523	2,372	694	2,310	1,314	358
%	30.6	4.1	18.4	5.4	17.9	10.2	2.8

Note: Total Non-agricultural Employment, by Sector, in 1991 11,669.
Source: Bureau of Economic Analysis, U.S. Department of Commerce, 1991.

Table I-9

Agricultural Employees

County	Employment
Monroe	1,222
Regional Total	1,222

Note: Total Agricultural Employment in 1991: 1,222.

Table I-10

Employers by Industry in the Region of Monroe County *

FIRMS BY EMPLOYMENT SIZE CLASS										
Industry	All Firms	1-4	5-9	10-19	20-49	50-99	100-249	250-499	500-999	1000 +
Total	561	325	103	60	47	13	9	3	1	
Ag. Services, Forestry, Fisheries	11	7	2	1	1					
Mining	2	1		1						
Construction	47	31	10	5	1					
Manufacturing	63	17	5	12	13	5	7	3	1	
Transportation, Communication, Utilities	24	13	6	3	2					
Wholesale Trade	31	11	9	5	6					
Retail Trade	185	104	42	20	13	6				
Finance, Insurance, Real Estate	40	25	7	5	3					
Services	142	102	20	8	8	2	2			

* Includes both private and public entities in 1990.

Source: U.S. Department of Commerce, County Business Patterns, 1990, Tennessee

Table I-11

Prepare a Regional Summary of Institutions Housing More than 100 Persons

County	Total Number of Institutions	Total Number of Students Prisoners/Residents	Estimated Quantity of Waste Generated*
Monroe	1	122	111 tpy
Regional Total	1	122	111 tpy

* Estimates from Waste Management, Inc. (5 lbs./person/day)

Table I-12

**Summary Data on Major Health Care Facilities
in the Region of Monroe County (larger than 50 beds)**

County	No. of Facilities	No. of Beds	Infectious Waste Management		Est. Quantity of Solid Waste Generated*
			On Site/Offsite	Type Treatment	
Monroe	3	266	offsite	incineration	361 tpy
Regional Total	3	266	offsite	incineration	361 tpy

* Estimates from Waste Management, Inc.
16 lbs./person/day for hospitals
5 lbs./person/day for nursing homes

Table I-13

Sources of Local Revenue Utilized in the Region of Monroe County

County	Property Tax	Local Sales Tax	Wheel Tax	Local Waste Collection Fee	User Fee/Tipping Fee	Other
Monroe	X	X	X		X	Hotel-Motel & County Mineral Severance Taxes
Regional Total	X	X	X		X	see above

Table I-14

Assessed Property Values, Property Tax Revenue, Local Sales and Sales Tax Revenues, and Number of Registered Vehicles

County	1992 Total Assessed Property Value	1992 Total Property Tax Revenue	1992 Total Sales Subject to Local Sales Tax¹	1992 Total Local Sales Tax Revenue	1992 # Registered Vehicles	1992 Total Wheel Tax Revenue
Monroe	\$244,319,760	\$4,886,395	\$153,700,000	\$10,127,440	26,000	NA ²
Regional Total	\$244,319,760	\$4,886,395	\$153,700,000	\$10,127,440	26,000	NA²

Source: ¹ According to Stan Chervin, Director of Research, Tennessee Department of Revenue

² Collection of the wheel tax began on July 1, 1993.

During the past few years, the opening of two new industrial parks (Niles Ferry Industrial Park and Tellico Area Development Agency's Industrial Park) in the Vonore area of the County has greatly enhanced industrial recruitment in the County. In addition, the Tennessee Department of Transportation is currently planning to widen U.S. Highway 411 to four lanes. The improvements to this major highway which serves these industrial parks will greatly encourage economic activity in the future. According to the U.S. Department of Commerce's employment projections, Monroe County will experience a steady increase in jobs during the next two decades. Waste projections in the next 10 years will also steadily increase.

CHAPTER II.

**ANALYSIS OF THE CURRENT SOLID WASTE
MANAGEMENT SYSTEM FOR THE REGION**

Statutory Requirements:

"...(E)ach plan submitted by a municipal solid waste region shall include the following:...
(2) a current system analysis of: (A) waste streams, including data concerning types and amounts generated; (B) collection capability, including data detailing the different types of collection systems and the populations and areas which receive and do not receive such services; (C) disposal capability, including an analysis of the remaining life expectancy of landfills or other disposal facilities; (D) costs, using a full-cost accounting model developed by the State Planning Office; including costs of collection disposal, maintenance, contracts, and other costs; and (E) revenues, including cost reimbursement fees, appropriations, and other revenue sources." [T.C.A. Section 68-211-815 (b)(2)]

With a few exceptions, data supporting this chapter is displayed in the Monroe County Profile, prepared for the County as a part of the District Needs Assessments (Chapters III, V, VI, VII, VIII, and IX).

A. WASTE STREAM CHARACTERIZATION

To date, there have been no detailed studies of the composition of Monroe County's solid waste stream. Therefore, for the purpose of this plan the national averages will be used for type of waste and tonnage.

Table II-1

Quantity of Solid Waste Received for Disposal/Incineration in Calendar 1991

Monroe County	Tons Disposed	Population (1991)	Waste Disposed Per Capita
Regional Total	24,960	30,736	.81

Table II-2

Origin of Regional Solid Waste in 1991
TONS PER YEAR

Monroe County	Residential	Institutional/ Commercial	Non-Hazardous Industrial	Special	Other
Regional Total	4,992	4,992	12,480	2,496	---

Table II-3

Acceptance of Certain Categories of Solid Waste for Disposal or Incineration

Monroe County/ Facility	Yard Waste brush-leaf-grass		Sewage Sludge		Construction Demolition		Tires		White Goods*	
	Y/N	Qty	Y/N	Qty	Y/N	Qty	Y/N	Qty	Y/N	Qty
Regional Total	Y	250	N	---	Y	5,000	N	---	Y	10

* White Goods - discarded major appliances, such as refrigerators, ranges, etc.

Table II-4

Description of the Waste Stream By Materials

<u>Waste Category</u>	<u>National %</u>	<u>Calculated Regional Tons</u>
Paper & paperboard	40.0	9,990
Glass	7.1	1,750
Ferrous Metals	6.5	1,625
Aluminum	1.4	350
Other Non-Ferrous Metals	0.6	150
Plastics	8.0	2,000
Rubber & Leather	2.5	625
Textiles	2.1	525
Wood	3.6	900
Food Waste	7.4	1,850
Yard Waste	17.6	4,395
Misc. Inorganic Waste	1.5	375
Other	<u>1.7</u>	<u>425</u>
TOTAL MUNICIPAL SOLID WASTE	100.0	24,960

Table II-5

Unmanaged Waste*

Monroe County	Potential Waste Generation 1991 tpy	Actual Waste Disposed 1991 tpy	Unmanaged Waste 1991 (potential/actual) tpy	Percent of Potential Total
Regional Total	33,656	24,960	8,696	26

* Wastes that are "outside" the collection system such as materials in roadside dumps, litter, etc.

In 1993, a solid waste survey was sent to over 1,000 Monroe County businesses and industries. This survey was regarding waste generated and recycled in the year 1992. There was a return rate of less than four percent (4%) for the survey. Since this was such a small rate of return, the findings can only be used as a complement to other findings and can not stand alone as an overview of Monroe County's waste stream composition. Thus, these figures will likely not have a major impact on any of the Region's decision regarding proposed facilities.

The following information was gleaned from the survey: Most large industries are recycling their largest waste. Paper and wood waste still make up the most significant amount of waste for particular materials, which is in line with the national averages. Amounts of yard waste and food waste were low as might seem the case with business and industries. Other wastes varied somewhat depending on the particular manufacturing done by an individual industry.

Due to the large rural population in Monroe County, yard waste percentages would be less than the national composition. Also because of the three boat manufacturers located in the Region, there are larger quantities of wood waste and other wastes typically found in the industry.

Monroe County is host to several industries. As a result, the County's total waste stream is compromised of nearly 50% non-hazardous industrial waste.

B. WASTE COLLECTION AND TRANSPORTATION SYSTEMS

The existing collection services and facilities in the planning Region of Monroe County (County Profile of the District Needs Assessment, Chapter V, A.1-18.) are provided by the municipalities of Sweetwater, Vonore, Tellico Plains and Madisonville, and several private haulers operating in the County. All four cities and the private haulers offer door-to-door collection service to residents.

The estimated number of residents served in the Region of Monroe County by the existing solid waste collection system is listed below:

<u>Service Provider</u>	<u>Solid Waste Collection System</u>	<u>Number of Residents Served</u>
Sweetwater	Door-to-Door Collection	5,978
Vonore	Door-to-Door Collection	639
Tellico Plains	Door-to-Door Collection	1,118
Madisonville	Door-to-Door Collection	3,711
Superior Sanitation	Door-to-Door Collection	2,367
Carmley Disposal	Door-to-Door Collection	118
V & R Disposal	Door-to-Door Collection	658
J & J Disposal	Door-to-Door Collection	921
Homer Burrell	Door-to-Door Collection	960
Maynard Tipton	Door-to-Door Collection	63
Total Population Served		16,533

Most of the solid waste collected by public and private waste haulers is transported for disposal at the Monroe County Landfill located on Ball Play Road in Madisonville.

From the information gathered in the Needs Assessment, the existing collection system does not appear to service all residents in the Region. Approximately, 14,203 residents (46% of the County population in 1991) have no solid waste collection service provided to them in Monroe County. This percentage has not significantly changed for 1992 & 1993.

A regional map indicating the location of all facilities and service areas can be viewed on page II-14.

C. SOURCE REDUCTION AND RECYCLING SYSTEMS

Neither the County nor any of its municipalities are actively engaged in a source reduction or recycling program. Several industries in Monroe County have instituted private recycling programs, which are having a significant impact on the amount of waste being disposed of in the landfill. Also, private individuals are participating in such activities as home composting and recycling.

D. WASTE PROCESSING, COMPOSTING, AND WASTE-TO-ENERGY/INCINERATION SYSTEMS

It can be concluded from information gathered during the Needs Assessment that there are no existing waste processing, composting, and waste-to-energy/incineration facilities in the Region of Monroe County.

Regional Summary: Facilities

Table II-6 = Operating and Planned Composting Facilities in the Region.

Existing = None
Planned = None

Table II-7 = Municipal Solid Waste Incinerators or Waste-to-Energy Facilities in the region.

Operating Facilities = None
Planned Facilities = None

E. DISPOSAL FACILITIES - LANDFILLS AND BALEFILLS

The existing disposal facility for the solid waste generated in Monroe County is a Class 1 Sanitary Landfill owned and operated by the County. Information regarding the landfill capacity, location and current and future daily use is provided in the Tables below.

Table II-8

Existing Municipal Solid Waste Landfills in the Region

Monroe County	Name of Landfill	Location	Permitted Capacity (Acres)	Current Rate of Waste Accepted (tons/day)	Remaining Capacity (tons)
Regional Total	Monroe County Sanitary Landfill	Ball Play Road, Madisonville	3	80	68,640*

* Source: Flynt Engineering, 1989 (80 tpd X 286 dpy X 3 years).

Table II-9

Existing Landfills Expected to Close Before 2003

Monroe County	Location	Current Use (Tons/Day)	Current Annual Use (Tons/Year)	Anticipated Date of Closure
Regional Total	See Table II-8	80	24,960*	10/6/96

* Based on 312 days/year.

Table II-10

Planned Expansions and Planned New Facilities Which Will Operate for Ten Years or More

Monroe County	Proposed Facility		Location	When Will Capacity be Available	Permitted Capacity Sought (acre)	Design Rate of Waste (tpd) Disposed	Potential Expansion Yes/No
	Expan.	New					
	NA	NA					
Planned New Regional Capacity							

Table II-11

Total Existing and Planned Capacity in the Region at the Close of the Next Ten Years

Year	TONS		
	Existing	Planned	Total
FY 1993	5,720*		5,720
FY 1994	22,880		22,880
FY 1995	22,880		22,880
FY 1996	17,160		17,160
FY 1997		0	0
FY 1998		0	0
FY 1999		0	0
FY 2000		0	0
FY 2001		0	0
FY 2002		0	0
FY 2003		0	0

Total Capacity 68,640**

* Based on 3 month capacity for October through December 1993.

** Source: Flynt Engineering, 1989 (Based on 80 tpd X 286 dpy X 3 Years)

F&G. COSTS AND REVENUES FOR THE CURRENT SYSTEM

The following tables indicate the current system costs and revenues for Monroe County and its four municipalities that are actively involved in solid waste management. In order to be consistent, when possible Costs are broken down into either Operating and Maintenance or Capital. With regard to Revenues, applicable revenue bases and their rates are indicated. Since General Revenue Funds are often composed of a series of different monies, whenever the primary revenue source is property tax, the amount of the tax rate is indicated.

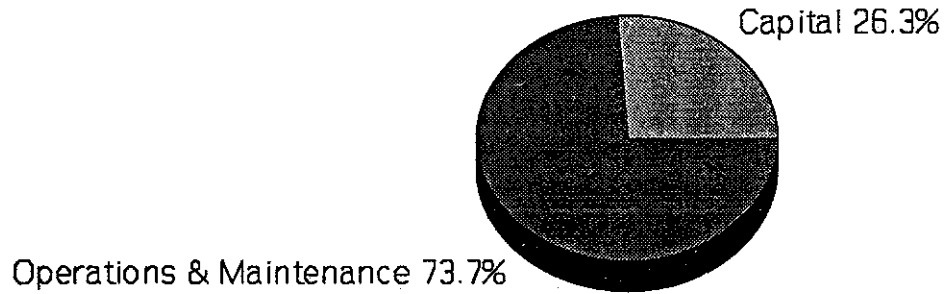
Table II-12

Monroe County System Costs and Revenues for Fiscal Year 1992-93

Monroe County FY'93				
COSTS:	Debits	Credits	Base	Rate
Operations & Maintenance	\$344,028			
Capital	123,000			
<i>Total</i>	\$467,028			
REVENUES:				
Refuse Disposal Charges (Industry Only)		\$277,000	Tipping Fees	\$29.85/ton
State Revenue Sharing-TVA		20,000		
Other State Revenues (i.e. DOT for brush coll.)		1,218		
Contributions (Cities, Indiv. & Priv. Haul)		120,000	Tipping Fees	\$20.85/ton
Fund Balance-Prev. Year		48,810		
<i>Total (Solid Waste Share)</i>		\$467,028		
Net Difference		0		
Total County Revenue(TCR)		\$25,502,078		
Solid Waste Share of TCR		1.8%		

NOTE: Households served in Monroe County: 7,022

Monroe County System Cost



Revenue

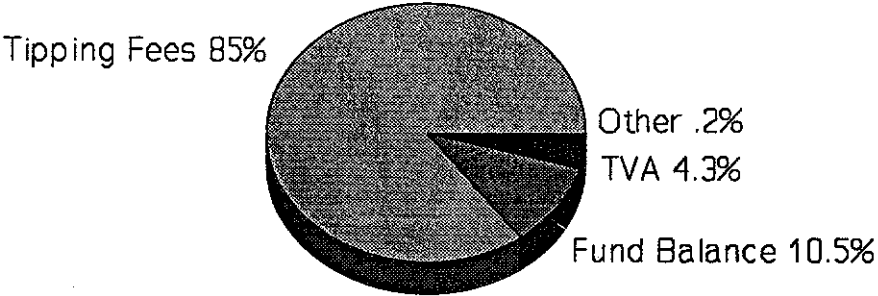


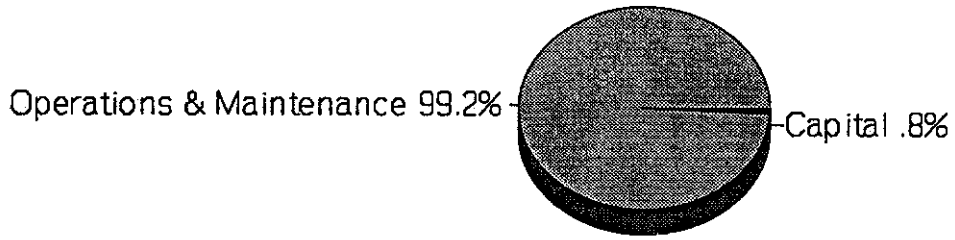
Table II-13

Madisonville System Costs and Revenues for Fiscal Year 1992-93

Madisonville FY'93				
COSTS:	Debits	Credits	Base	Rate
Operations & Maintenance	\$178,205			
Capital	1,450			
<i>Total</i>	\$179,655			
REVENUES:				
Refuse Collection Charges		\$205,009	Mo. Util. Bill	\$7/res. \$14/bus.
<i>Total (Solid Waste Share)</i>		\$205,009		
Net Difference		\$25,354		
Total City Revenue (TCR)		\$3,817,877		
Solid Waste Share of TCR		5.4%		

NOTE: Households served in Madisonville: 1,411

Madisonville System Cost



Revenue

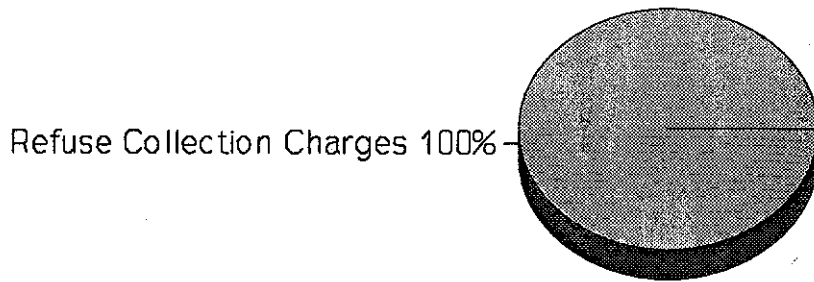


Table II-14

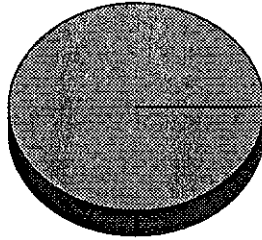
Sweetwater System Costs and Revenues for Fiscal Year 1992-93

Sweetwater FY'93				
COSTS:	Debits	Credits	Base	Rate
Operations & Maintenance	\$197,980			
Capital	0			
<i>Total</i>	\$197,980			
REVENUES:				
Gen. Revenue Appropriation		\$197,980	Property Tax	\$1.10/\$100
<i>Total (Solid Waste Share)</i>		\$197,980		
Net Difference		0		
Total City Revenue (TCR)		\$2,164,856		
Solid Waste Share of TCR		9.1%		

NOTE: Households served in Sweetwater: 2,273

Sweetwater System Cost

Operations & Maintenance 100%



Revenue

Property Tax 100%

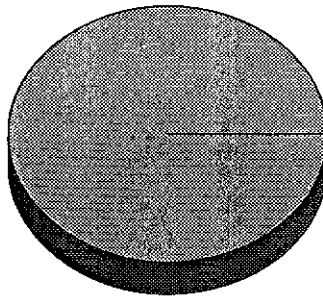


Table II-15

Tellico Plains System Costs and Revenues for Fiscal Year 1992-93

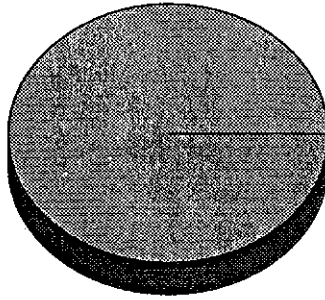
Tellico Plains FY'93				
COSTS:	Debits	Credits	Base	Rate
Operations, Main. & Capital	\$43,000			
<i>Total</i>	\$43,000			
REVENUES:				
Gen. Revenue Appropriation		\$42,038*	Mo. Util. Bill Property Tax	\$8/res. \$12/bus. \$.84/\$100
<i>Total (Solid Waste Share)</i>		\$42,038		
Net Difference	\$962			
Total City Revenue (TCR)		\$262,328		
Solid Waste Share of TCR		16.0%		

* The city does not know what the break down is between the amount received through utility charges and property taxes.

NOTE: Households served in Tellico Plains: 425

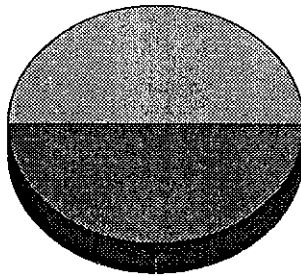
Tellico Plains System Costs

Operations & Maintenance 100%



Revenue

Sanitation Fee 50%



Property Tax 50%

Table II-16

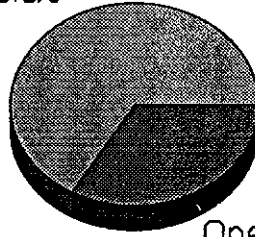
Vonore System Costs and Revenues for Fiscal Year 1992-93

Vonore FY'93				
COSTS:	Debits	Credits	Base	Rate
Operations & Maintenance	\$24,765			
Capital	50,000			
<i>Total</i>	\$74,765			
REVENUES:				
Refuse Collection Charges		\$27,000	R.C. Bill (i&o city)	\$6/res. \$16/bus. in \$10/res \$21/bus out
Gen. Revenue Appropriation		47,756	Prop. Tax	\$.50/\$100
<i>Total (Solid Waste Share)</i>		\$74,765		
Net Difference		0		
Total City Revenue (TCR)		\$673,765		
Solid Waste Share of TCR		11.1%		

NOTE: Households served in Vonore: 232

Vonore System Cost

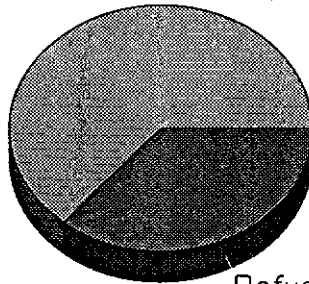
Capital 66.9%



Operations & Maintenance 33.1%

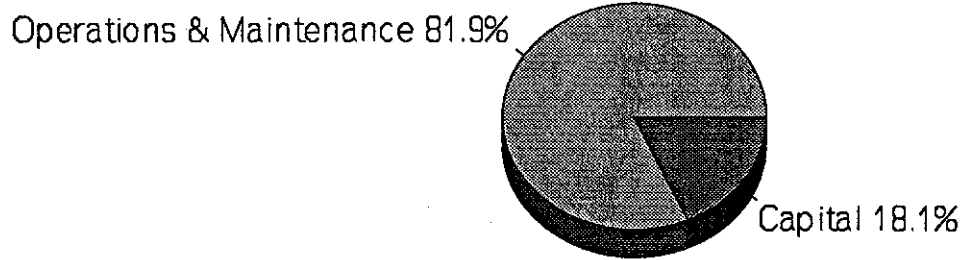
Revenue

Property Tax 63.9%

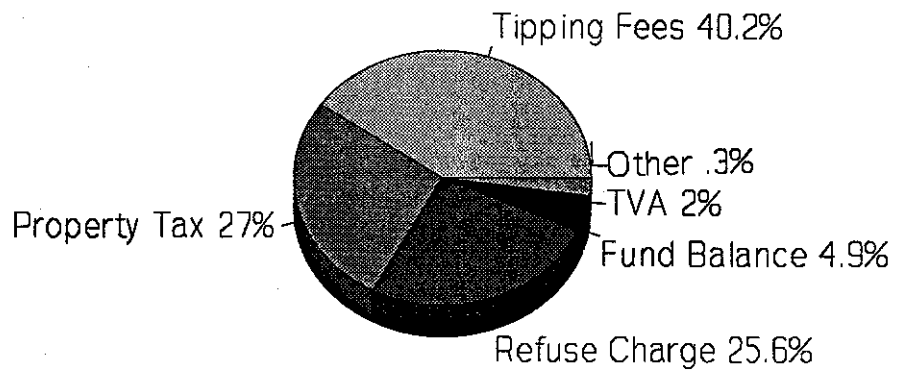


Refuse Charges 36.1

Region of Monroe County Cost



Revenue



G. PUBLIC INFORMATION AND EDUCATION PROGRAMS

Monroe County just recently became a member of the Keep America Beautiful Franchise and is currently interviewing for a public information/education coordinator. The Monroe County Chamber of Commerce offers a program entitled "Quality of Life" that covers such issues as litter and recycling. The primary source of education programs within the County is through the local school systems. Both the Monroe County Schools and the Sweetwater Schools offer a recycling education program as part of their curriculum. Many of these students were involved with an awards program sponsored by the Bowater for Recycling unit, entitled "Most Innovative Ways to Recycle". Travelling exhibits also currently visit all county schools. Both The Democrat/Laker and the Monroe County Advocate publish articles regarding solid waste.

A regional map indicating the location of local school systems and other community based education programs can be viewed on page II-14.

H. PROBLEM WASTES

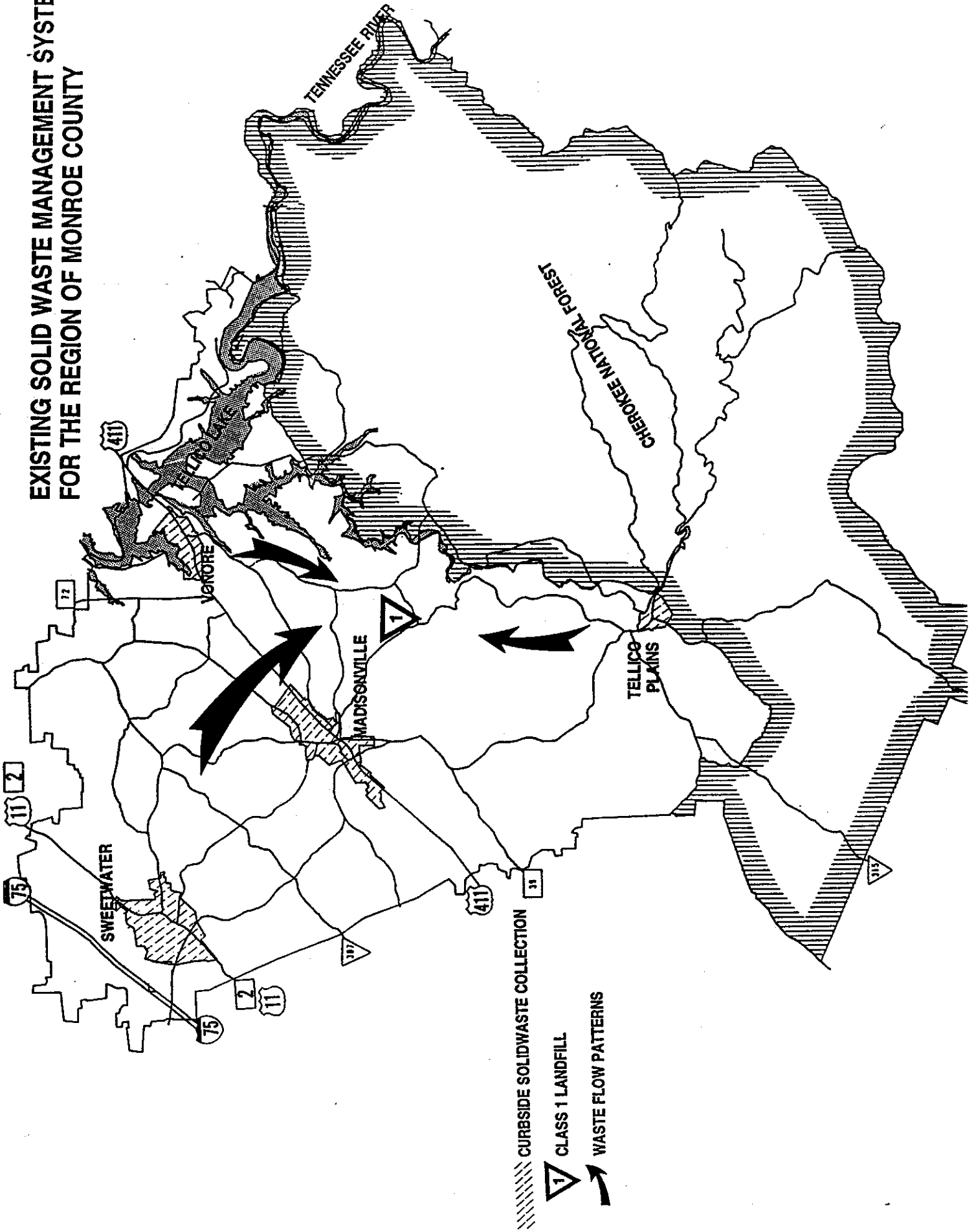
Except for waste tires, no information concerning problem wastes was collected during the Needs Assessment. An analysis of existing solid waste management practices for all problem wastes will be discussed in Chapter X.

I. SYSTEM MAP FOR BASE YEAR (1993)

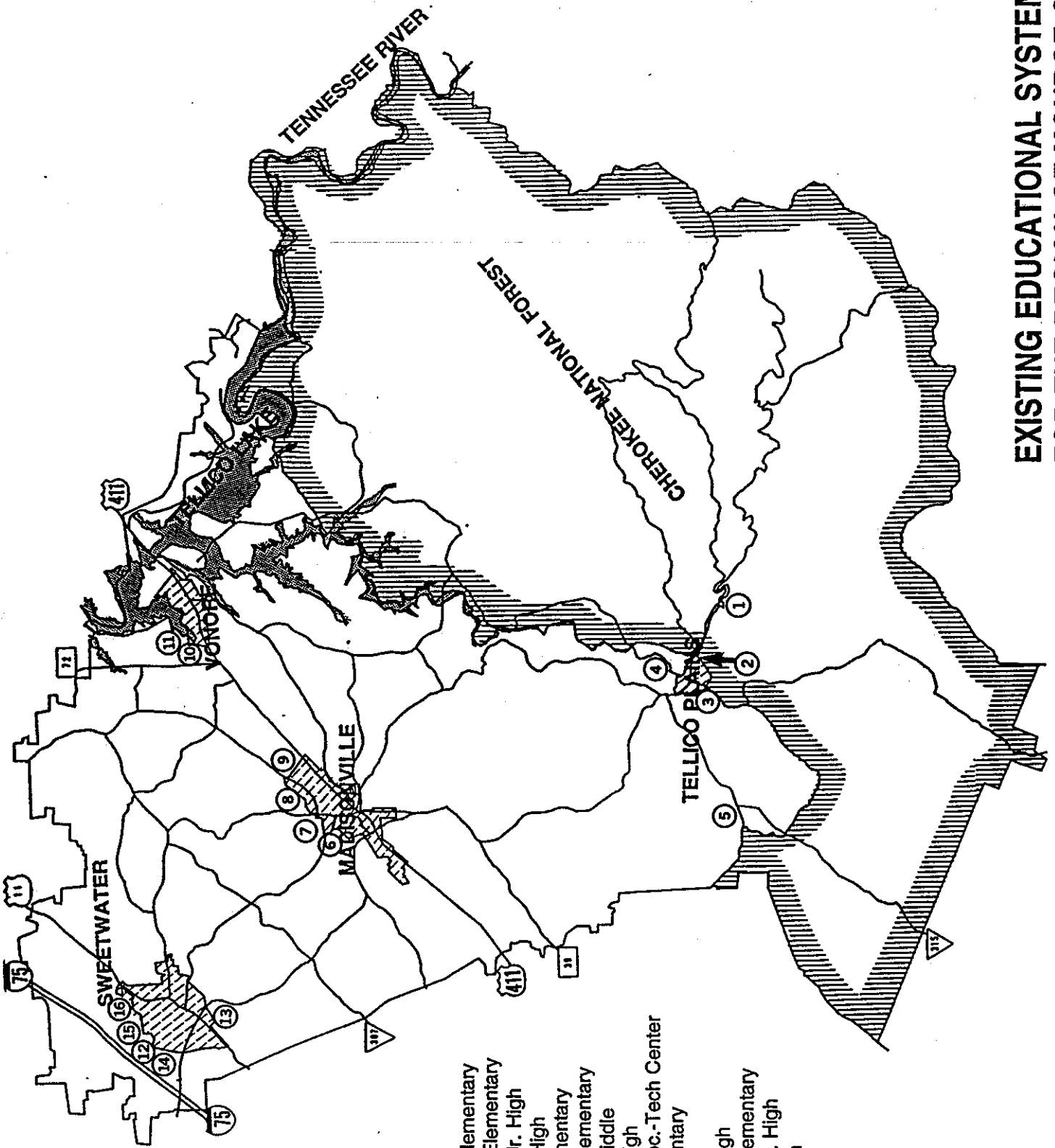
A composite map of the regional solid waste management system is provided on the following page. The map identifies the approximate location of the following existing system components for the Region of Monroe County:

1. Collection service areas for the Cities;
2. Waste flow patterns of solid waste generated and disposed in the County;
3. Class I and IV landfill sites; and
4. Educational program sites.

EXISTING SOLID WASTE MANAGEMENT SYSTEM FOR THE REGION OF MONROE COUNTY



EXISTING EDUCATIONAL SYSTEM FOR THE REGION OF MONROE COUNTY



1. Coker Creek Elementary
2. Tellico Plains Elementary
3. Tellico Plains Jr. High
4. Tellico Plains High
5. Rual Vale Elementary
6. Madisonville Elementary
7. Madisonville Middle
8. Madisonville High
9. Monroe Co. Voc.-Tech Center
10. Vonore Elementary
11. Vonore High
12. Sweetwater High
13. Sweetwater Elementary
14. Sweetwater Jr. High
15. Brown Jr. High
16. TMG (Japan)

J. STRENGTHS AND WEAKNESSES OF EXISTING SYSTEM

25% Waste Reduction: From the available information, it can be determined that 22 percent of the total waste stream was diverted from the Monroe County Landfill in 1991. This significant waste reduction from the landfill was due to major commercial and industrial recycling efforts in Monroe County. Presently, there are no existing public collections programs in the County for recyclable materials.

Sweetwater does operate a Class IV Landfill for disposal of their demolition and yard waste, there is not more than one year remaining in the life of the landfill. Unless, Sweetwater plans to purchase and permit additional-land, the Class IV landfill will close sometime in 1994.

In order for the County (and its cities) to meet and maintain the 25 percent waste reduction per capita by 1995, there needs to be a comprehensive waste reduction program involving all governmental entities, and the residential, commercial and industrial sectors.

County-wide Collection Service: The Cities of Tellico Plains, Madisonville, Sweetwater and Vonore offer door-to-door solid waste collection services to their residents. In addition, there are several private haulers servicing a portion of the households in the County. The County does not offer collection services at this time. Approximately 46 percent of the residents in Monroe County have no collection services available to them. The County will need to address an adequate collection system for the residents in the County by January 1, 1995. At the minimum, the County will be required to provide a network of convenience centers located throughout the County.

Solid Waste Education: Although solid waste and recycling education curriculum is available to any interested teacher, it is left to the individual teacher to decide whether to integrate this into their daily lesson plans. Monroe County Schools have participated in several recycling programs over the past years. Also, the "Quality of Life" organization, represented by the Monroe County Chamber of Commerce, is involved in public education programs on solid waste and environmental issues. Monroe County recently joined A KAB Franchise that should provide immediate impact on solid waste curriculum in the schools.

Household Hazardous Waste: No plans have been made to establish a County collection of household hazardous waste. The County will have to plan a collection program by providing a secure collection site for household hazardous waste in cooperation with the state mobile service for collection, packaging and disposal of household hazardous wastes in each county.

Ten-Year Disposal Capacity Assurance: From the information provided, Monroe County and its Cities are not assured a ten-year disposal capacity unless the existing permit is extended to provide disposal beyond October 1996. The County will need to pursue the option of permitting additional landfill space under new state and federal regulations, or make some arrangements for solid waste disposal in an adjoining county where a Class I landfill exists.

CHAPTER III

GROWTH TRENDS, WASTE PROJECTIONS AND PRELIMINARY SYSTEM STRUCTURE

Statutory Requirements

"...(E)ach plan submitted by a municipal solid waste region shall include... anticipated growth trends for the next ten-(10) year period...and anticipated waste capacity needs." [T.C.A. Section 68-211-815(b)(4) and (5)]

In this chapter, the Region of Monroe County defines probable growth trends, and determines how much waste it will be required to manage in each year of the ten-year planning period (1994-2003). In defining the regional solid waste management demand, the Region of Monroe County carries out a regional analysis following the same methodology and reporting format used by the District Needs Assessment. Next, the regional plan states which of the possible components of an integrated waste management system is considered in the plan, how much of the waste stream might be managed by each, and how components will be evaluated.

A. PROJECTED REGIONAL DEMAND

For the Region of Monroe County, waste projections were reviewed in the County Profile in the District Needs Assessment, Chapter IV, A(1) through (7). A comparison of the annual per capita generation rates from 1989 to 1993 indicates a gradual decrease in per capita from 1989 through 1992, and an estimated increase for 1993, as seen from Table III-1 below. Based on this extreme fluctuation in per capita rates, and a projected population increase expected for the County over the next 10 years, the 1989 per capita is used as the base rate to calculate the 10-year waste projections.

The following Table, summarizes calculations of annual per capita solid waste generation rates for the Region of Monroe County.

Table III-1*

Year	1989	1991	1992	1993*
Annual Tons	28,600	24,960	19,000	20,950
Population	31,400	30,736	30,916	31,105
Per Capita	.91	.81	.61	.67

* Methodology from Items 2, 3 and 4 in chapter IV, A of the Needs Assessment for the Monroe County Profile.

** 1993 data estimated from 6 months of documented information.

The projected quantity of solid waste requiring disposal (generation) in the Region of Monroe County is summarized in each projected year, adjusted for population changes.

Table III-2*

Quantity of Solid Waste Requiring Disposal (tons)

Monroe County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	28,473	28,659	28,812	28,988	29,151	29,324	29,492	29,624	29,741	29,873

* Methodology from Tables IV-1 in District Needs Assessment from Monroe County Profile, as extended.

The projected quantity of solid waste requiring disposal in the Region of Monroe County is summarized for each projection year, adjusted for population and economic growth.

Table III-3*

**Quantity of Solid Waste Requiring Disposal (in tons)
Adjusted for Population and Economic Growth**

Monroe County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	29,544	29,765	29,953	30,166	30,366	30,578	30,786	30,960	31,119	31,295

* Methodology from Table IV-3 in District Needs Assessment from Monroe County Profile, as extended.

The projected quantities of solid waste requiring disposal (= generation) is summarized below for each projection year, adjusted for population growth, economic growth, and source reduction, recycling, and industrial process change.

Table III-4*

**Quantity of Waste Requiring Disposal (in tons) Adjusted for Population Changes,
Economic Growth, and Waste Reduction and Recycling**

Monroe County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	22,778	21,494	21,609	21,741	21,863	21,993	22,119	22,218	22,306	22,405

* Methodology from Table IV-4 in District Needs Assessment from Monroe County Profile, as extended.

Note: 1994 assumes 20% per capita reduction plus additional 3.2% reduction for economic growth.

1995 - 2003 assumes 25% per capita reduction plus additional 3.2% reduction for economic growth.

Projected waste for regulatory and special factor adjustments has been integrated into Table III-4. To date, there are no significant imports or exports of wastes to report for Monroe County.

B. REGIONAL DEMAND/SUPPLY

Table III-5 is not applicable to Monroe County.

Table III-6 is omitted because no special factor adjustments were claimed by the region.

Table III-7 is not applicable to Monroe County.

The Region's adjusted demand is calculated--the total quantity of solid waste that will require collection, treatment and disposal in each projection year from 1994 through 2003. The quantity of waste displayed in Table III-8 below represents the quantity of waste to be managed in each projection year.

Table III-8*

Annual Projections of Solid Waste Requiring Disposal Adjusted for All Applicable Factors (in tons/year)

Monroe County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	22,778	21,494	21,609	21,741	21,863	21,993	22,119	22,218	22,306	22,405

* Methodology from Table IV-4 in District Needs Assessment from Monroe County Profile, as extended.

Note: 1994 assumes 20% per capita reduction plus additional 3.2% reduction for economic growth.
 1995 - 2003 assumes 25% per capita reduction plus additional 3.2% reduction for economic growth.

The projected amount of waste, on the following page, represents the **regional demand** for solid waste management services, facilities and programs. This demand is compared with the **current system supply** and planned additions to the current system (as described in Chapter II) to define the **regional needs in each projection year** as illustrated in Table III-9 below.

Table III-9

Projected Demand and Supply, and Identification of Potential Shortfalls or Surplus in Disposal Capacity

Tons Per Year

Year	DEMAND: Tons of Waste Requiring Disposal	SUPPLY: Existing & Planned Capacity	Surplus (+)	Shortfall (-)
1994	22,778	22,880	102	
1995	21,494	22,880	1,386	
1996	21,609	17,160		4,449
1997	21,741	0		21,741
1998	21,863	0		21,863
1999	21,993	0		21,993
2000	22,119	0		22,119
2001	22,218	0		22,218
2002	22,306	0		22,306
2003	22,405	0		22,405
Total	220,526	68,640*	1,488	159,094

* Source: Flynt Engineering, 1993 (See Chapter II).

With the planned closing of the Monroe County Class 1 Landfill by October 9, 1996, the Region will begin to experience a shortfall in disposal capacity by mid-October 1996. The Region will need to address the projected shortfall in solid waste disposal capacity by permitting additional landfill space under new State and Federal regulations, or by transferring Monroe County waste into another County for disposal.

C. PRELIMINARY SYSTEM DESIGN

The elements of an integrated waste management system to be considered in the Region of Monroe County could include waste reduction (Class IV diversion), recycling and landfilling. The percentages of the total projected quantity of waste to be handled by each major component by 1995 is estimated in the Table below.

Table III-10

Preliminary System Design by 1995 (planned)

System Component	Tons of Total Waste Stream Managed in Planned System Design	% of Total Waste Stream Managed in Planned System Design (by 1995)	% of Total Waste Stream Managed in Existing System Design (1993)
Waste Reduction: Class IV diversion	1,371	5	* 0
Recycling: Commercial/Industrial	6,000	20	20
Residential	900	3	0
Landfilling	21,494	72	80
Total	29,765	100	100

* Information is not available on the amount of waste diverted into the Sweetwater Class IV Landfill. The demolition landfill is predicted to close by mid-1994.

From the Table above, it can be seen that little change is expected between the existing and planned percentages of total waste stream managed by each system component. The major difference between the existing and planned system components involves a Class IV Landfill facility in the Region, and a residential recycling program.

With the predicted closing of the Class IV landfill in Sweetwater by mid-1994, the Region could consider permitting a Class IV landfill for future waste reduction needs. It is expected that an increase could occur in the percentage of waste diverted to a Class IV landfill, if the facility were available for the County and it's Cities to utilize.

The commercial and industrial recycling efforts in the County continue to divert a large percentage of the total waste stream. This effort is expected to continue for the Region. Residential recycling, however, will be an additional system component for the Region.

After each system component has been evaluated in Chapters IV-X, these tentative decisions will be revisited in Chapter XI, where they may be confirmed or revised, as a result of the detailed analyses of each component.

D. EVALUATION CRITERIA FOR THE REGION

The solid waste management system components will be carefully evaluated in the next seven chapters. A final selection of system elements and configurations will be determined in each chapter using evaluation criteria from the planning guidelines published by the State Planning Office. The evaluation criterion includes: institutional compatibility; number and size of facilities needed to meet defined regional needs; evaluation of regional markets for recovered materials, fuel or energy; capital and annual operating costs; unit costs (cost per ton of waste); citing and regulatory requirements; environmental impacts; public acceptance; and any other criteria selected by the regional Board.

CHAPTER IV
WASTE REDUCTION

Statutory Requirements:

"The goal of the state is to reduce by twenty-five percent (25%) the amount of solid waste disposed of at municipal solid waste disposal facilities and incinerators, measured on a per capita basis within Tennessee by weight, by December 31, 1995." [T.C.A. Section 68-211-861(a)]

"...[E]ach plan submitted by a municipal solid waste region shall include...a description of waste reduction activities designed to attain the twenty-five percent (25%) reduction required by Section 25(a) [T.C.A. Section 68-211-861(a)]; and Section 14(b)10. [T.C.A. Section 68-211-815(b) (10)]."

"A county or region shall have the flexibility to design its own plan and methods which take into account local conditions for attaining the waste reduction goal set by this section. This plan shall be included as a part of the county or regional plan required by Section 13 of this act." [T.C.A. Section 68-211-861(f)]

A. ESTABLISHING A BASE YEAR QUANTITY

The quantity of solid waste generated and disposed of in calendar 1989 for the Region of Monroe County is provided below in Table IV-1. (This data is available in the UT Report entitled "Managing Our Waste: Solid Waste Planning in Tennessee," published in February 1990).

Table IV-1

Quantity of Solid Waste Generated and Disposed in Calendar 1989

Monroe County	Tons Disposed	Population (1989)	Waste Disposed Per Capita
Regional Total	28,600	31,400	.91

B. A TARGET 1995 WASTE REDUCTION PER CAPITA DISPOSAL GOAL

To calculate the value of a 25% reduction in the per capita quantity of waste disposed, in tons/person/year, the following equation is use:

$$\begin{array}{l} \text{Average 1989 per capita rate} \times .25 = \text{Target 1995 per capita reduction} \\ \text{(tons/person/year)} \qquad \qquad \qquad \text{(tons/person/year)} \end{array}$$

$$.91 \times .25 = \underline{.2275}$$

The target per capita reduction is then multiplied by the regional population projection for 1995 (from Chapter III, Table III-1, Column 2) to determine the quantity of waste in tons, that must be reduced at the source, or diverted to alternative treatment options, if the Region is to meet the statutory goal by December 31, 1995.

$$\text{1995 target per capita reduction (tons/person/year)} \times \text{1995 population (persons)}$$

$$= \text{1995 target reduction in tons/year}$$

$$.2275 \times 31,493 = \underline{7,165 \text{ target reduction in tons/year}}$$

Note: An additional 1,106 (3.2% annual economic growth index) tons for 1995 needs to be reduced to compensate for the projected annual economic growth in Monroe County.

$$7,165 + 1,106 = \underline{8,271 \text{ total targeted tons/year in reduction for 1995.}}$$

C. HOW THE REGION WILL MEET THE STATEWIDE WASTE REDUCTION GOAL

As indicated in Chapter III of the preliminary system design, the Region plans to reduce waste by 25% per capita by 1995 and continue a 25% per capita reduction through the year 2003 by implementing a regional recycling program for the residential and private sector, as well as designing a waste reduction program to include the diversion of solid waste to a Class IV landfill, and residential, commercial and industrial recycling. The total targeted amount of tons annually for Monroe County to reduce in 1995 is 8,271 tons for 1995 (An additional 3.2% is also added to reflect annual economic growth in Monroe County).

Recycling Program

A quantitative allocation of the 1995 waste reduction target concerning recycling by material (recyclables, yard waste, etc.), by economic sector (residential and private), and by year (1994, 1995, or beyond) is provided below in Table IV-2.

Table IV-2

Waste Reduction Target for Recycling Program

Economic Sector	Residential Sector (Cities and County)		Private Sector (Commercial, Institutional & Industrial)	TOTAL TONS
	Recyclables*	Yardwaste	Recyclables*	
Year				
1994	653	72	4,890	5,615
1995	810	90	6,000	6,900
1996	810	90	6,000	6,900
1997	810	90	6,040	6,940
1998	819	91	6,090	7,000
1999	819	91	6,120	7,030
2000	828	92	6,160	7,080
2001	828	92	6,200	7,120
2002	837	93	6,230	7,160
2003	842	94	6,264	7,200

*Recyclables include newspaper, mixed paper, cardboard, glass, steel cans, aluminum cans, plastic containers, wood pallets, waste oil, etc.

Waste Reduction Program

A description of the combination of strategies (recycling and waste reduction) to be used to meet the target amount is provided in Table IV-3 below.

TABLE IV-3 Estimated Quantities of Waste Removed or Diverted From the Waste Stream (tons)						
Year	Previous Reductions	Recovered & Recycled	Diverted to Alternative Disposal	Economic Incentives	Other	Total
1985 to 1989						
1990						
1991						
1992						
1993						
1994		5,615	1,151			6,766
1995		6,900	1,371			8,271
Subtotal		12,790	2,247			15,037
1996		6,900	1,420			8,344
1997		6,940	1,483			8,423
1998		7,000	1,503			8,503
1999		7,030	1,555			8,585
2000		7,080	1,587			8,667
2001		7,120	1,622			8,742
2002		7,160	1,653			8,813
2003		7,200	1,690			8,890
TOTAL		69,220	17,282			84,004

TABLE IV-4 BELOW ESTIMATES THE QUANTITY OF EACH MATERIAL RECOVERED/RECYCLED IN 1995 (BASED UPON 8273 TONS), WHICH WILL BE ACHIEVED BY EACH SOURCE SECTOR. TABLE IV-5 ESTIMATES THE QUANTITY OF THE 1995 REDUCTION, BY SOURCE SECTOR. ANY ADDITIONAL REDUCTION, SUCH AS A CLASS IV DIVERSION, IS NOT INCLUDED IN THE ALLOCATION.

TABLE IV-4

QUANTITATIVE MATERIAL ALLOCATION (TONS/YEAR)

MATERIAL	QUANTITY OF WASTE	PERCENT OF TOTAL
PAPER	4,161	60.3%
GLASS	697	10.1%
ALUMINUM CANS	324	4.7%
PLASTIC	1042	15.1%
FERROUS METALS	428	6.2%
YARD WASTE	250	3.6%
TOTAL	6,900	100.0%

TABLE IV-5

SOURCE SECTOR (TONS/YEAR)

SOURCE SECTOR	QUANTITY OF WASTE	PERCENT OF TOTAL
RESIDENTIAL	900	13%
COMMERCIAL/INDUSTRY	6000	87%
TOTAL	6900	100%

D. 10-YEAR STAFFING REQUIREMENTS, BUDGET, AND FUNDING PLAN

Staffing Requirements:

The total 10-year staffing for the regional waste reduction strategies (not addressed in other chapters) in Monroe County should include the following:

<u>Program</u>	<u>Number of Staff</u>
<u>Class IV Landfill</u>	
*Coordinator	1/4 time
Operator	1 full-time
Attendant	1 full-time
**Mechanic	1/2 time

* Data collection for plan updates and annual reports should be executed by the solid waste coordinator for all planning elements. The solid waste coordinator will also be over the recycling, transfer station and education program.

** The mechanic will also do maintenance on the transfer station equipment.

Note: Staffing for the regional recycling program will be addressed in Chapter VI.

Budget:

A ten year budget, including both capital and annual operating costs, has been prepared below to summarize the total costs of constructing and operating a Class IV landfill.

Table IV-4

Capital and Operating Costs for Waste Reduction Strategies (Class IV Landfill)

Class IV Landfill	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs::										
Equipment Replacement Fund:			\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Total Capital Costs:			\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Operation Costs:										
Operation & Maintenance:			\$69,977	\$69,977	\$69,977	\$69,977	\$69,977	\$69,977	\$69,977	\$69,977
Personnel:			\$42,640	\$42,640	\$42,640	\$42,640	\$42,640	\$42,640	\$42,640	\$42,640
Sub-Total:			\$ 112,617	\$112,617	\$112,617	\$112,617	\$112,617	\$112,617	\$112,617	\$112,617
Cost-of-Living:				\$3829	\$7658	\$11,487	\$15,316	\$19,145	\$22,974	\$26,803
Total Operation Costs:			\$112,617	\$116,446	\$120,275	\$124,104	\$127,933	\$131,762	\$135,591	\$139,420
Sinking Fund:			\$36,000	\$36,000	\$36,000	\$36,000	\$36,000	\$36,000	\$36,000	\$36,000
Total Capital and Operation Costs:			\$223,617	\$227,446	\$231,275	\$235,104	\$238,933	\$242,762	\$246,591	\$250,420

Source: Draper Aden Associates: December 17, 1993. Cost Est. Study for Monroe County
Based on 3.4% inflation and Cost-of-living increases.

Budget Information for Class IV landfill

1. Equipment Replacement: Based on equipment being replaced every seven years.

2. Operations & Maintenance: The following is the breakdown on the O&M cost:

1. Fuel & Utilities	=	\$21,000
2. Maintenance	=	\$15,000
3. Supplies	=	\$5,000
4. Professional Ser.	=	\$5,000
5. Insurance	=	\$10,000
6. Professional Dev.	=	\$2,000
7. State Maint. Fee	=	\$2,000
8. State Sur. Tax	=	\$3,616
9. Contingencies (10%)=		\$6,362
Total	=	\$69,977

3. All capital construction work has been completed on the Class IV landfill site.

Funding Plan:

The Region's financing plan for capital and operating costs for the Class IV Landfill will include revenues from tipping fees. Financing for the waste reduction program will be addressed in greater detail in Chapter XI.

**Annual Funding Plan for Waste Reduction Program
(Class IV Landfill)**

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
Tipping Fees	\$225,000	100%
Total	\$225,000	100%

E. 10-YEAR IMPLEMENTATION SCHEDULE FOR ALL WASTE REDUCTION STRATEGIES

Table IV-6

Implementation Schedule for All Waste Reduction Strategies

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Operation of Class IV Landfill			•							
Integrate Recycling Services		•								
Collection / Annual Reports	•	1st milestone				2nd milestone				
Purchase New Equipment		•								
Plan Updates						•				

• = when implementation begins.

F. RESPONSIBILITY FOR IMPLEMENTING THE PLAN

The responsibility for implementing the plan will remain with the County. The County will continue to encourage commercial and industrial waste reduction through sponsored waste reduction workshops and waste exchange publications, and will implement a regional recycling program for residential use.

The 1st milestone for meeting the 25% waste reduction goal will occur by December 31, 1995. The 2nd milestone occurs during the period when the plan is to be updated. The County will be primarily responsible for documenting progress of the Region in achieving and maintaining the waste reduction goal identified in this chapter.

G. REGIONAL DATA COLLECTION / ANNUAL PROGRESS REPORTS

As per, T.C.A. Sections 68-211-863(b), the Region of Monroe County must report to the State Planning Office annually the quantities and types of recyclable materials collected. Regional data collection will be maintained in monthly, quarterly and annually reports by quantities and types of recyclables collected in the Region by a qualified staff person. Annual progress reports, utilizing information gathered in Tables IV-2 and IV-3, will be submitted to the State Planning Office. Annual reports will also include the amount of waste diverted to the Class IV landfill.

CHAPTER V

WASTE COLLECTION AND TRANSPORTATION

Statutory Requirements:

"...[E]ach plan submitted by a municipal solid waste region shall include...collection capability, including data detailing the different types of collection systems and the population and areas which receive and do not receive such services..." [T.C.A. 68-211-815(b)(2)(B); and "...as part of the local plan required by Section 13 of the Act, each county or multi-county municipal solid waste disposal region shall submit a plan for the adequate provision of collection services to the State Planning Office. Such plan shall identify unmet needs and shall be updated annually." [T.C.A. 68-211-851(b)

A. EXISTING WASTE COLLECTION AND TRANSPORTATION SYSTEM

The existing collection services and facilities in the planning Region of Monroe County (County Profile of the District Needs Assessment, Chapter V, A.1-18.) are provide by the municipalities of Sweetwater, Vonore, Tellico Plains and Madisonville, and several private haulers operating in the County. All four cities and the private haulers offer door-to-door collection to residents.

The estimated number of residents served in the Region of Monroe County by the existing solid waste collection system is listed below:

<u>Service Provider</u>	<u>Solid Waste Collection System</u>	<u>Number of Residents Served</u>
Sweetwater	Door-to-Door Collection	5,978
Vonore	Door-to-Door Collection	639
Tellico Plains	Door-to-Door Collection	1,118
Madisonville	Door-to-Door Collection	3,711
Superior Sanitation	Door-to-Door Collection	2,367
Carmley Disposal	Door-to-Door Collection	118

B. REGIONAL NEEDS FOR COLLECTION SERVICE

Identified regional needs to provide adequate service to all residents and to meet the criteria of the Convenience Center Rule 1200-1-7 are:

- 1) address unserved areas by January 1, 1995,
- 2) integrate collection system with recycling program,
- 3) expand the collection services for the next 10 years; and,
- 4) cost-effective collection system.

Given the number of convenience centers required by state regulations, the County will need to address the unserved areas in Monroe County with a network of convenience center sites with 1 center at the minimum.

During the planning period, the Solid Waste Board had identified unique characteristics of Monroe County, such as the road system and population distribution, to help determine the best alternative and location for convenience center sites. The Board determined that at least three (3) convenience center sites should be located within the County. The planned collection system will also successfully integrate recycling services at the convenience center sites. The Cities could also utilize the recycling drop-off locations.

The existing collection system will need to expand to meet the changing needs of the County over the next 10 years. With the predicted closing of the County Class 1 Landfill by October 1996, the County could be disposing of its solid waste in another County. Therefore, Monroe County must plan for the construction of a transfer station in a centrally located site within the Region. One site for the transfer station could be at the same location as the existing County Class 1 Landfill. The existing is centrally located, already contains truck scales and the County plans to permit additional land surrounding the planned transfer station for a Class IV landfill.

The most important regional need to provide adequate service to all residents is cost-effectiveness. Information was presented to the Board concerning cost-effective alternatives for solid waste collection services. The preferred collection system supported by the Board was combination of compacting and receiving equipment to minimize loading and transportation costs.

C. COLLECTION SYSTEM IMPLEMENTATION

Ten Year Implementation Schedule for Collection Program

Collection:	9 4	9 5	9 6	9 7	9 8	9 9	0 0	0 1	0 2	0 3	Responsible Party	\$ Annual Amount	Funding Source
Continue Door to Door Collection	X										Cities & Private Haulers	Varies	Solid Waste Fee
Establish Standards for Private Haulers		X									State	N/A	N/A
Construct & Purchase Equipment for Convenience Centers			X	X	X						County	\$41,300	State Grant and General Fund
Manned Convenience Centers	X										County	\$120,907	General Fund
Certification of Staff			X								State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Design and construction of the convenience center system will begin by 1996 with completion scheduled by the end of 1996. The design and construction of the proposed transfer station will begin by 1996 and operation will occur by October 1996.

Training for all collection and transportation staff will be provided by the Department of Environment and Conservation [T.C.A. Section 68-211-851(c)].

Initiation of a funding source for annual operating costs has already occurred with the collection of a tipping fee (\$29.85/ton for industry; \$20.85 for Cities) at the County landfill.

Any solid waste collection plan will be annually updated by the Region as required by T.C.A. 68-211-814. The annual update will consider:

- Survey of roadside dumps;
- Citizen complaints;
- Alternative systems available;
- Volume of waste received or collected by the existing systems.

This evaluation report will be submitted to the State Planning Office on July 1, 1995 and each year thereafter.

The intent of the evaluation is to clearly determine whether the existing system is adequately providing solid waste collection and disposal service to residents of the County.

D. TOTAL 10-YEAR STAFFING AND TRAINING NEEDS

The total 10-year staffing for the regional collection and transportation system in Monroe County should include:

<u>Program</u>	<u>Number of Staff</u>
Convenience Centers (3)	3 full-time (40 hrs/week)
*Solid Waste Coordinator	1/4 time
**Mechanic	1/2 time
Transfer Station Operator	1 full-time
Transfer Truck Haulers	2 full-time

*Solid Waste Coordinator should also oversee the Class IV Landfill, recycling education and data collection.

**Mechanic will also do the maintenance on the Class IV Landfill.

E. 10-Year Budget

A ten year budget, including both capital and annual operating costs, has been prepared on the following page to summarize the total costs of the regional collection system. The proposed budget assumes public sector capital and operational costs. All system costs should be evaluated against solicited bids from the private sector to achieve the most cost-effective approach for service delivery.

Table V-2
Annual Capital and Operation Costs for Collection System *

Program System:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Property Acq.:		\$4000	\$4000	\$4000						
Construction:		\$28,400	\$28,400	\$28,400						
Equipment:		\$7394	\$7394	\$7394						
Sinking Fund:		\$3169	\$3169	\$3169	\$3169	\$3169	\$3169	\$3169	\$3169	\$3169
Total Capital Cost:		\$42,963	\$42,963	\$42,963	\$3169	\$3169	\$3169	\$3169	\$3169	\$3169
Operational Costs:										
Personnel:		\$9100	\$18,200	\$27,300	\$27,300	\$27,300	\$27,300	\$27,300	\$27,300	\$27,300
Transportation		\$9635	\$9635	\$9635	\$9635	\$9635	\$9635	\$9635	\$9635	\$9635
Sub-Total Operation Costs:		\$18,735	\$27,835	\$36,935	\$36,935	\$36,935	\$36,935	\$36,935	\$36,935	\$36,935
3.4% C.L.I.			\$946	\$2512	\$3767	\$5023	\$6279	\$7535	\$8791	\$10,046
Total Operational Cost:		\$18,735	\$28,781	\$39,447	\$40,702	\$41,958	\$43,214	\$44,470	\$45,726	\$46,981
Total Capital & Operational Costs:		\$61,698	\$71,744	\$82,410	\$43,871	\$45,127	\$46,383	\$47,639	\$48,895	\$50,150

* Specific information used to develop cost is on the next page.

** Table based on convenience centers being built on a phase in plan.

BUDGET INFORMATION

A. Convenience Center Capital Costs

Construction:

Clear/Excavating	\$ 8,000 (1/2 acre)
Culvert	\$ 3,000
Rock \$6/ton 10" base	\$ 7,842 (1,307 tons)
Fence \$5.50/lin. ft	\$ 4,246 (772 ft.)
Entrance gate	\$ 500
Shelter & sundries	\$ 2,400
Septic system	\$ 800
Concrete pad	\$ 4,000
Electrical set up	\$ 2,500
Signs	\$ 500
Communication	\$ 600
Landscaping	\$ 1,000
Subtotal	\$34,488

Equipment

2 cu.yd. compactor	\$ 6,000
42 cu.yd. receiver	\$ 4,500
42 cu.yd. open top	\$ 3,500
Subtotal	\$14,000
Roll-off truck	\$72,000

Assumptions:

- 1) 8,000 households serviced
- 2) 40 lbs./household/week = 8,230 tons/year disposed for 8,000 households
- 3) households dispersed throughout the County
- 4) Landfill fee = \$35.00/ton for Convenience Centers
- 5) Landfill fee = \$30.00/ton for Transfer Station
- 6) Transportation costs include collection and loading time
- 7) Transportation for Convenience Centers =
 \$1.23/ton collection + \$4.35/ton transportation = \$5.58/ton X 2,080 tons/center
- 8) Transportation for Transfer Station =
 \$1.23/ton collection + \$15/ton transportation = \$16.23/ton X 8,230 residential tons
- 9) 3.4% cost of living increase for operational costs [U.S. Department of Labor, Bureau of Labor Statistics, 1993.

F. FUNDING PLAN

The Region's financing plan for capital costs will include appropriations from the general fund and revenues from the tipping fee. Funding from property taxes will serve as the basis of Monroe County's collection and transportation system. Also, the County will apply for a convenience center grant from TDEC, Division of Solid Waste Assistance. The estimated amount of the grant is \$50,000 per County to fund the construction of the convenience center sites.

The Region will also fund annual operating and maintenance costs through appropriations from the general fund and revenues generated from the tipping fee.

Detailed information describing how the Region will meet projected capital, operating and maintenance costs, and the sources of revenue used, will be discussed in Chapter XI.

Annual Funding Plan for Collection Program

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
Tipping Fees	\$27,700	46.2%
General Fund	\$27,300	45.5%
State Grants	\$5000	8.3%
Total	\$60,000	100%

G. LOCATION OF EXISTING AND PLANNED COLLECTION SYSTEM

The approximate location of the existing and new elements of the regional collection and transportation system in Monroe County is available on the system map provided in Chapter XI. Arrows are use to indicate probable waste flow patterns within/or between the region and adjoining regions.

Statutory Requirements:

"...[E]ach plan submitted by a municipal solid waste region shall include...a recycling plan, including a description of current public and private recycling efforts and planned efforts to enhance recycling within the county or region." [T.C.A. 68-211-815(b)(7)]

and "Effective January 1, 1996, each county shall provide...one (1) or more sites for collection of recyclable materials..." [T.C.A. 68-211-863(a)]

"Each person or entity operating a collection site for recyclable materials shall annually report the quantities of recyclable materials collected, by type of material, to the region which shall then report...[this information]...to the State Planning Office." [T.C.A. 68-211-863(b)]

A. REGIONAL NEEDS FOR RECYCLING PROGRAMS, FACILITIES, AND SERVICES.

Identified regional needs to provide recycling programs, facilities, and services to residents of Monroe County are:

- 1) provide one or more sites to collect recyclables,
- 2) integrate recycling program with collection system,
- 3) collect information on quantities and types of collected materials; and,
- 4) cost-effective processing and marketing.

Presently, the only significant recycling effort practiced in Monroe County is within the commercial and industrial businesses in the County. In 1991, major businesses in the County diverted an estimated 6,945 tons (22% of total waste generated annually) of recyclables from the waste stream.

The County plans to integrate recycling drop-off locations with the planned convenience center sites. Materials collected will include: newspaper, plastic and glass containers, and aluminum and metal cans. Recyclables will be collected from the convenience center sites by the sanitation workers and transported for processing and marketing to either the Vocational Rehabilitation Center in Alcoa, the Athens Recycling Center located in McMinn County or another yet to be determined site.

With combined public and private recycling efforts, the regional goal of diverting 23% of the wastestream through recycling can be successfully achieved by 1995.

B. EXPANSION AND ENHANCEMENT OF RECYCLING IN THE REGION

Drop-off recycling collection sites will be integrated into the County convenience center system.

A summary of the planned recycling programs to be initiated in the Region are provided in Table VI-1 below:

Table VI-1

Existing and Planned Recycling Programs in Region of Monroe County

Sector	Program Type	Entities Served	Total TPY	% of Total Waste Stream	Service Area
County (planned)	Drop-off	31,493 residents	900	3	County & Cities
Commercial/Industrial (existing)	In-house Waste Reduction	7 businesses	6,000	20	Cities & County
Total			6,900	23	

Each County convenience center will have 1 roll-off compartmentalized container for newspaper, plastic containers and aluminum cans and cardboard. 55 gallon drums will be utilized for colored glass containers (green, white and brown). The roll-off containers and 55 gallon drums will be loaded onto a mini-hoist roll-off recycling trailer, and transported by a used 1 1/2 ton truck to a Recycling Center for processing and marketing. One empty compartmentalized container will always stay with the trailer to be exchanged for a full container located at convenience center sites. A map of the drop-off collection sites is provided on the system map in Chapter XI.

Two possible Recycling Centers (Vocational Rehabilitation Center in Alcoa, and Athens Recycling Center in McMinn County) presently transport and market recyclables processed directly to end-users or secondary material processors in order to economically participate in the market. The Centers annually report the quantities and types of recyclable materials collected to participants in municipal and county programs. This information can be reported to the Region of Monroe County. The Region will then make this information available to the State Planning Office, as well as, to the Office of Cooperative Marketing for Recyclables.

The Region will participate in any other cost-effective marketing contracts sought by either the State's Office of Cooperative Marketing or the Recycling Marketing Cooperative of East Tennessee (RM CET).

The Region will participate in creating and expanding markets for recovered materials or products with a recycled content in a cost-effective manner through local government

purchasing and procurement, or by providing economic incentives for new businesses who manufacture new products from recovered materials. As local businesses increase their waste reduction efforts in Monroe County, the Region will initiate a waste exchange program for recovered materials from the commercial and industrial sector. The County will be responsible for implementing the recycling plan within the planning region.

An integrated regional recycling system will be coordinated through the County's recycling program plan, including; drop-off collection sites, waste reduction workshops for commercial/industrial businesses, as well as, annual progress reports from participating agencies and businesses.

In order to educate children and adults about source reduction and recycling, and to encourage broad participation in a regional recycling program, the County will rely on the recently obtained Keep America Beautiful program.

C. TOTAL 10-YEAR STAFFING AND TRAINING NEEDS

The total 10-year staffing for the regional recycling program in Monroe County should include:

<u>Program</u>	<u>Number of Staff</u>
*Drop-off Locations	3 full-time (40 hrs/week)
Transportation	1 part-time
**Data Collection & Plan Updates	1 full-time

* Same staff utilized at convenience center sites.

** Data collection for plan updates and annual reports to be executed by the solid waste coordinator for all planning elements.

D. 10-Year Budget

A ten year budget, including both capital and annual operating costs, has been prepared below to summarize the total costs of the regional recycling program. The proposed budget assumes public sector capital and operational costs. All system costs should be evaluated against solicited bids from the private sector to achieve the most cost-effective approach for service delivery.

Table VI-2

Annual Capital and Operating Costs for Recycling Program in Region of Monroe County

Program:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Equipment:		\$8954	\$4477	\$4477	\$	\$	\$	\$	\$	\$
Equipment Replacement Fund:		\$	\$	\$	\$2558	\$2558	\$2558	\$2558	\$2558	\$2558
Total Capital Costs:		\$8954	\$4477	\$4477	\$2558	\$2558	\$2558	\$2558	\$2558	\$2558
Operational Costs:										
Personnel:*										
Transportation:		\$4000	\$4000	\$4000	\$4000	\$4000	\$4000	\$4000	\$4000	\$4000
Education:		\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000	\$1000
Total Operational Costs:		\$5000	\$5000	\$5000	\$5000	\$5000	\$5000	\$5000	\$5000	\$5000
Total Capital & Operational Costs:		\$13,954	\$9477	\$9477	\$7558	\$7558	\$7558	\$7558	\$7558	\$7558

Budget Information

Assumptions:

- 1. Recycling Containers = \$4477 for a 4 compartment roll-off.**
- 2. Personnel cost is shown on the convenience center budget.**
- 3. Recycling drop-offs will be integrated with the convenience center sites.**
- 4. Transportation = 400 miles/week x 12 cents a mile = maintenance costs.**
- 5. Recyclables possibly transported to Tennessee Vocational Center in Alcoa or Athens Recycling Center in McMinn County (no resale value).**

E. IMPLEMENTATION SCHEDULE

Ten Year Implementation Schedule for Recycling Program

Recycling:	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Encourage Industrial/ Commercial	X										County / CIS	N/A	N/A
Integrate Recycling with Convenience Centers		X		X	X	X	X	X	X		County	\$4,477	General Fund/ Tipping Fees
Integrate Recycling with Door-to-Door Collection	X	X									Cities	\$20,000	Solid Waste Fee
Educate the Public	X										Education Coordinator	\$15,000	State Grants/ Private Donations
Purchase Recycling Equipment		X									County / Cities	\$20,000	State Grants
Join R.M.C.E.T.		X									County	\$10,000	Sale of Recyclable
Communicate with Office of Cooperative Marketing		X									Solid Waste Board	N/A	N/A
Plan Updates	X					X					Solid Waste Board	N/N	N/A
Annual Reports and Data Collection	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Annual milestones will be reported on the progress of the recycling program. From information gathered in Table IV-2 annually, and on the form provided by the Division of Solid Waste Assistance entitled, Quarterly Inventory of Recycling Operations, progress of the recycling program can be adequately measured. As per, T.C.A. Section 68-211-863(b), the Region will submit these annual reports to the State Planning Office.

F. FUNDING PLAN

The Region's financing plan for capital, operating and maintenance costs will include a combination of revenue sources, such as appropriations from the general fund, grant monies, portion of the tipping fee and potential sales from the recyclable materials marketed. Detailed information describing how the Region will meet the projected costs and sources of revenues utilized will be discussed in Chapter XI.

Annual Funding Plan for Recycling Program

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
Sales of Recyclables	\$2,500	25%
State Grants	\$2,500	25%
General Fund	\$2,500	25%
Solid Waste Fee	\$2,500	25%
	\$10,000	100%

G. LOCATION OF EXISTING AND PLANNED REGIONAL INFRASTRUCTURE

The approximate locations of the existing and new elements of the regional recycling program are provided on the composite map in Chapter XI.

CHAPTER VII

**COMPOSTING, SOLID WASTE PROCESSING,
WASTE-TO-ENERGY AND INCINERATION CAPACITY**

Statutory Requirements:

"...[Each plan submitted by a municipal solid waste region shall include...any other information as the Director of the State Planning Office may deem relevant..." [T.C.A. 68-211-815(b)(15)]

Neither composting facilities, solid waste processing facilities, or incineration facilities are included in the statutory list of planning requirements. However, because these facilities are viable options which may be considered in designing an integrated, regional waste management system, the Director of the State Planning Office has determined that this information is relevant, and should be included in the regional plan.

A. REGIONAL NEEDS FOR COMPOSTING, WASTE PROCESSING AND/OR INCINERATION

From information gathered during the Needs Assessment in 1991, there were no composting, solid waste processing or incineration facilities available in the Region of Monroe County. Due to the small percentage of yardwaste disposed at the landfill, there is little need for a composting facility. Many of the residents in the County (including the Cities) manage yardwaste generated on their own property.

Statutory Requirements:

"Each plan submitted by a municipal solid waste region shall include [a] planned capacity assurance, including descriptions of planned or needed facilities." [T.C.A. 68-31-815(b)(6)]

A. Regional Needs and Goals

The Monroe County landfill is nearing mandated closing in October, 1996. A permit has already been submitted to the State for the operation of a Class IV landfill. Although, Monroe County has some adjacent land that could get permitted with the State for the continued operation of a Class I landfill. The Monroe County Regional Solid Waste Board feels that due to the volatile nature of landfills in the area and the new regulations that come into effect in 1996 governing Class I landfills, that at the present time the region of Monroe County should build a transfer station and haul their waste to a Class I landfill facility. The following tables illustrate the disposal capacity for the region of Monroe County within the next 10-year planning period.

Table VIII-1

Projected Demand and Supply, and Identification of Potential Shortfalls or Surplus in Disposal Capacity (tons per year)

Year	Demand: Tons of Waste Requiring Disposal	Supply: Existing & Planned Capacity	Surplus (+)	Shortfall (-)
1993	N/A			
1994	22,778	22,880	102	
1995	21,494	22,880	1,386	
1996	21,609	17,160		4,449
1997	21,741	0		21,741
1998	21,863	0		21,863
1999	21,993	0		21,993
2000	22,119	0		22,119
2001	22,218	0		22,218
2002	22,306	0		22,306
2003	22,405	0		22,405

Table VIII-2

**Projected Net Disposal Capacity for Region
(Tons per Year)**

Year	Cocke County	Regional Total
1993	N/A	N/A
1994	22,778	22,778
1995	21,494	21,494
1996	21,609	21,609
1997	21,741	21,741
1998	21,863	21,863
1999	21,993	21,993
2000	22,119	22,119
2001	22,218	22,218
2002	22,306	22,306
2003	22,405	22,405

The Passage of the Resource and Recovery Act Subtitle D Final Rule for Municipal Solid Waste Landfills on October 9, 1991, has made the expenses of operating a Class I landfill increase dramatically. For that reason more counties will look at the disposal of solid waste on a shorter time period so that they don't make long term investments that turn out to be unwise due to new regulations. The following budget outlines the expense of closing a Class I landfill and the capital and operating cost of a transfer station.

B. Disposal Strategy

The Monroe County Regional Solid Waste Board has decided that due to the volatile nature of landfills and the new state regulations that at the present time Monroe County should plan to haul their waste to another Class I landfill. Talks have already begun with Loudon County for use of their Class I landfill, but other landfills will be contacted before the final decision is made. It should be noted that if a landfill is found within close proximity to Monroe County, the region may be able to haul directly from the convenience centers, saving the expense of building a transfer station.

Table V-3

Annual Capital and Operating Costs for Transfer Station

Program System:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Construction:			\$222,000							
Equipment:			\$326,000							
Equipment Replacement Fund:				\$64,266	\$64,266	\$64,266	\$64,266	\$64,266	\$64,266	\$64,266
Total Capital Costs:			\$548,000							
Operational Costs:										
Personnel:			\$79,300	\$79,300	\$79,300	\$79,300	\$79,300	\$79,300	\$79,300	\$79,300
Transportation:			\$89,925	\$89,925	\$89,925	\$89,925	\$89,925	\$89,925	\$89,925	\$89,925
Disposal Fee:			\$249,600	\$249,600	\$249,600	\$249,600	\$249,600	\$249,600	\$249,600	\$249,600
Sub-Total			\$418,825	\$418,825	\$418,825	\$418,825	\$418,825	\$418,825	\$418,825	\$418,825
3.4% CLI				\$14,240	\$28,480	\$42,720	\$56,960	\$71,200	\$85,440	\$99,680
Total Operational Costs:			\$418,825	\$433,065	\$447,305	\$461,545	\$475,785	\$490,025	\$504,265	\$518,505
Total Capital and Operational Costs:			\$966,825	\$497,331	\$511,571	\$525,811	\$540,051	\$554,291	\$568,531	\$582,771

* Budget Information on next page.

Budget Information

Assumptions:

1. 8,000 households serviced.
2. 40 lbs./household/week = 8320 tons/year disposed for 8,000 households.
3. landfill fee = \$30/ton for transfer station.
4. transportation cost include collection and loading time.
5. Transportation cost for Transfer Station =
\$1.23/ton collection + \$15/ton transportation = \$16.23/ton x 8230 residential tons.
6. 3.4% cost of living increase for operational costs (U.S. Department of Labor, Bureau of Labor Statistics, 1993).
7. Solid Waste Coordinator = \$10/hr
Mechanic = \$8/hr
Operator = \$8/hr
Drivers = \$8/hr

APPENDIX A

10-YEAR BUDGET

A ten year budget, including both capital and annual operating costs, should be prepared below to summarize the total costs of the Monroe County Class 1 landfill under new State and Federal Regulations.

Table 1

Capital and Operating Costs for Monroe County Class I Landfill (Dollars)

CLASS I LANDFILL	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<i>Capital Costs</i>										
CLOSURE COSTS (a)	141,790	141,790	141,790							
POST CLOSURE CARE (a)				7,764	8,152	8,560	8,988	9,437	9,909	10,404
EQUIPMENT/FUEL/OIL (b)	82,000	84,624	65,499							
BONDS/DEBT SERVICE	132,713	132,713	132,713							
MATERIALS (c)	27,500	28,380	21,966							
MOTOR VEHICLES	10000	0	0							
SITE DEVELOPMENT (d)	250,000	107,000	110,424							
OTHER EQUIPMENT (d)	39,390	16,512	17,040							
TOTAL CAPITAL COSTS	683,393	511,019	489,432	7,764	8,152	8,560	8,988	9,437	9,909	10,404
<i>Operating Costs:</i>										
SALARIES/WAGES/BENEFITS (c)	107,841	111,292	86,140							
OVERHEAD/ADMIN/MISCELL (c)	44,510	45,934	35,553							
TESTING	30,000	30,000	30,000							
ENGINEERING (c)	50,000	30,000	31,000							
TOTAL OPERATING COSTS	232,351	217,226	182,693	0	0	0	0	0	0	0
TOTAL CAPITAL & OPERATING COSTS	915,744	728,245	672,125	7,764	8,152	8,560	8,988	9,437	9,909	10,404

- (a) these figures include 5.0 percent growth multiplier
- (b) portions of these figures include 3.2 percent growth multiplier
- (c) these figures include 3.2 percent growth multiplier
- (d) costs allotted for vertical expansion of the landfill to October 1996

APPENDIX B

FUND 207 SOLID WASTE DISPOSAL

MONROE COUNTY, TENNESSEE

STATEMENT OF PROPOSED OPERATIONS
FOR THE FISCAL YEAR ENDING JUNE 30, 1994

ACCOUNT NUMBER DESCRIPTION	ACCRUAL BASIS ESTIMATED OPERATIONS 1993 - 1994	CASH BASIS ESTIMATED CASH FLOWS 1993 - 1994
BEGINNING CASH BALANCE 7-1-93		\$ _____

(If the total of the cash column is used to set tipping fees, then enter a zero for beginning cash balance. Assuming the cash in the cash account on July 1, 1993 was donated by another fund, then that cash should not be included when determining a tipping fee.)

BEGINNING RETAINED EARNINGS 7-1-93 \$ 246,276.00

ESTIMATED OPERATING REVENUES (Revenues directly related to the fund's primary activities. They consist primarily of user charges for goods & services.)	REVENUES	RECEIPTS
<u>CHARGES FOR CURRENT SERVICES</u>		
GENERAL SERVICE CHARGES		
43103 Sale of Methane Gas	_____	_____
43104 Sale of Electricity	_____	_____
43105 Sale of Steam	_____	_____
43110 Tipping Fees	<u>377,000.00</u>	_____
46851 State Revenue Sharing - TVA	<u>20,000.00</u>	_____
46990 Other State Revenues	<u>1,218.00</u>	_____
48130 Contributions	<u>130,000.00</u>	_____
RECURRING ITEMS		
44145 Sale of Recycled Materials	_____	_____
TOTAL OPERATING REVENUES	<u>528,218.00</u>	_____

ESTIMATED OPERATING EXPENSES (Expenses related directly to the fund's primary activities.)	EXPENSES	DISBURSEMENTS
<u>SANITATION SERVICES</u>		
WASTE DISPOSAL		
55754 LANDFILL OPERATION & MAINTENANCE		
105 Supervisor / Director	(_____)	(_____)
119 Accountants / Bookkeepers	(_____)	(_____)
141 Foremen	(_____)	(_____)
142 Mechanic	(_____)	(_____)
143 Equipment Operators	(_____)	(_____)
144 Equipment Operators - Heavy	(_____)	(_____)
145 Equipment Operators - Light	(_____)	(_____)
147 Truck Drivers	(_____)	(_____)
149 Laborers	(<u>84,480.00</u>)	(_____)
161 Secretary	(_____)	(_____)
162 Clerical Personnel	(_____)	(_____)
164 Attendants	(_____)	(_____)
187 Overtime Pay	(_____)	(_____)
188 Temporary / Part--Time Personnel	(_____)	(_____)
189 Other Salaries & Wages	(_____)	(_____)
201 Social Security	(<u>6,463.00</u>)	(_____)
202 Handling & Administrative Costs	(_____)	(_____)
204 State Retirement	(<u>253.00</u>)	(_____)
205 Employee & Dependent Insurance	(<u>9,200.00</u>)	(_____)
206 Life Insurance	(_____)	(_____)

FUND 207 SOLID WASTE DISPOSAL

MONROE COUNTY, TENNESSEE

STATEMENT OF PROPOSED OPERATIONS FOR THE FISCAL YEAR ENDING JUNE 30, 1994

ACCOUNT NUMBER	DESCRIPTION	ACCRUAL BASIS ESTIMATED OPERATIONS 1993 - 1994	CASH BASIS ESTIMATED CASH FLOWS 1993 - 1994
207	Medical Insurance	()	()
208	Dental Insurance	()	()
209	Disability Insurance	()	()
210	Unemployment Compensation	(945.00)	()
211	Local Retirement	()	()
212	Employer Medicare	()	()
299	Other Fringe Benefits	()	()
301	Accounting Services	()	()
302	Advertising	()	()
306	Bank Charges	()	()
307	Communication	()	()
308	Consultants	()	()
309	Contracts with Government Agencies	()	()
310	Contracts with Other Public Agencies	()	()
312	Contracts with Private Agencies	()	()
317	Data Processing Services	(500.00)	()
318	Debt Collection Services	()	()
320	Dues & Memberships	()	()
321	Engineering Services	(50,000.00)	()
322	Evaluation & Testing	()	()
325	Fiscal Agent Charges	()	()
327	Freight Expenses	()	()
328	Janitorial Services	()	()
329	Laundry Services	()	()
330	Operating Lease Payments	()	()
331	Legal Services	()	()
333	Licenses	()	()
334	Maintenance Agreements	()	()
335	Maintenance & Repair Services - Buildings	()	()
336	Maintenance & Repair Services - Equipment	(40,000.00)	()
337	Maintenance & Repair Service - Office Equipment	()	()
338	Maintenance & Repair Services - Vehicles	()	()
348	Postal Charges	()	()
349	Printing, Stationery & Forms	()	()
351	Rentals	()	()
353	Tow-In Services	()	()
355	Travel	(1,000.00)	()
359	Disposal Fees	()	()
360	Brokerage Fees - Recyclables	()	()
361	Permits	()	()
362	Penalties	()	()
363	Contracts for Landfill Facilities	()	()
364	Contracts for Development Costs	()	()
365	Contracts for Final Cover Costs	()	()
366	Contracts for Postclosure Care Costs	()	()
399	Other Contracted Services	()	()
402	Asphalt	()	()
408	Concrete	()	()
409	Crushed Stone	(25,000.00)	()
410	Custodial Supplies	()	()

FUND 207 SOLID WASTE DISPOSAL

MONROE COUNTY, TENNESSEE

STATEMENT OF PROPOSED OPERATIONS FOR THE FISCAL YEAR ENDING JUNE 30, 1994

ACCOUNT NUMBER	DESCRIPTION	ACCRUAL BASIS ESTIMATED OPERATIONS 1993 - 1994	CASH BASIS ESTIMATED CASH FLOWS 1993 - 1994
411	Data Processing Supplies	()	()
412	Diesel Fuel	(25,000.00)	()
414	Duplicating Supplies	()	()
415	Electricity	()	()
416	Equipment Parts - Heavy	()	()
417	Equipment Parts - Light	()	()
418	Equipment & Machinery Parts	()	()
420	Fertilizer, Lime, & Seed	(1,000.00)	()
423	Fuel Oil	()	()
424	Garage Supplies	()	()
425	Gasoline	(5,000.00)	()
426	General Construction Materials	()	()
427	Ice	()	()
433	Lubricants	(10,000.00)	()
434	Natural Gas	()	()
435	Office Supplies	(3,000.00)	()
437	Periodicals	()	()
438	Pipe	()	()
439	Pipe - Concrete	()	()
440	Pipe - Metal	()	()
442	Propane Gas	()	()
443	Road Signs	()	()
445	Sand	()	()
446	Small Tools	(500.00)	()
450	Tires & Tubes	(2,000.00)	()
451	Uniforms	()	()
452	Utilities	(3,500.00)	()
453	Vehicle Parts	()	()
454	Water & Sewer	()	()
455	Wood Products	()	()
456	Gravel & Chert	()	()
457	In-Service / Staff Development	()	()
458	Daily Cover Material	()	()
459	Drainage Materials	()	()
460	Geotextile Materials	()	()
461	Liner Materials	()	()
462	Wire	()	()
463	Testing	()	()
464	Top Soil	()	()
465	Clay	()	()
466	Synthetic Membrane	()	()
467	Fencing	()	()
468	Chemicals	()	()
499	Other Supplies & Materials	(1,000.00)	()
502	Building & Contents Insurance	(2,200.00)	()
503	Excess Risk Insurance	()	()
505	Judgements	()	()
506	Liability Insurance	(10,896.00)	()
507	Medical Claims	()	()
508	Premiums on Corporate Surety Bonds	()	()

FUND 207 SOLID WASTE DISPOSAL

MONROE COUNTY, TENNESSEE

STATEMENT OF PROPOSED OPERATIONS FOR THE FISCAL YEAR ENDING JUNE 30, 1994

ACCOUNT NUMBER	DESCRIPTION	ACCRUAL BASIS ESTIMATED OPERATIONS 1993 - 1994	CASH BASIS ESTIMATED CASH FLOWS 1993 - 1994
509	Refunds	()	()
510	Trustee's Commission	(6,500.00)	()
511	Vehicle & Equipment Insurance	(13,783.00)	()
512	Withholding Tax	()	()
513	Workmen's Compensation Insurance	(9,631.00)	()
* 514	Depreciation (This expense does not decrease cash)	()	()
515	Liability Claims	()	()
602	Principal on Notes	(123,213.00)	()
599	Other Charges	(309,430.00)	()

(The following expenditures for equipment, buildings, etc. that do not meet the long-term asset policy to be classified as a long-term asset. These will be fully expensed in the year they are purchased.)

701	Administration Equipment	()	()
707	Building Improvements	()	()
708	Communication Equipment	()	()
709	Data Processing Equipment	()	()
711	Furniture & Fixtures	()	()
712	Heating & Air Conditioning Equipment	()	()
717	Maintenance Equipment	()	()
719	Office Equipment	()	()
724	Site Development	()	()
727	Surplus Equipment	()	()
733	Solid Waste Equipment	()	()
790	Other Equipment	()	()
791	Other Construction	()	()
799	Other Capital Outlay	()	()
55770	POSTCLOSURE CARE COSTS	()	()
463	Testing	()	()
	(Add any other expenses from the list above)		
	TOTAL OPERATING EXPENSES	(774,494.00)	

OPERATING INCOME (LOSS)

-0-

(An operating loss means that landfill operation must be subsidized by transfers, selling capital assets, or borrowing.)

C. Funding and Implementation Schedule

Table VIII - 3

10 Year Implementation Schedule for the Disposal Program

Disposal	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Closure of Monroe County Class I Landfill			X								County	\$141,790	Tipping Fees
Post Closure Care				X	X	X	X	X	X	X	County	\$8000	Tipping Fees
Construction of Transfer Station			X								County	\$222,000	Tipping Fees
Purchase of Equipment			X								County	\$326,000	General Fund
Consider Transferring Ownership to a Solid Waste Authority				X							County	N/A	N/A
Training Personnel			X								State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Report	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Table VIII-4

Annual Funding Plan for Disposal Program

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
General Fund	\$79,300	14%
Tipping Fees	\$473,200	86%
Total	\$550,000	100%

D. Location of Existing and Planned Infrastructure

The locations of the Class IV landfill and the transfer station are shown on the composite map located in Chapter XI of the Region Plan.

Statutory Requirements:

"...[E]ach plan submitted by a municipal solid waste region shall include...a description of education initiatives aimed at business, industry, schools, citizens, and others, which address recycling, waste reduction, collection, and other goals..."[T.C.A. Section 68-31-815(b)(11)]

"...Each solid waste regional plan shall include an education program to assist adults and children to understand solid waste issues, management options and costs, and the value of waste reduction and recycling." [T.C.A. Section 68-211-842]

Monroe County has just recently employed a public information/education coordinator. Also, the Monroe County Chamber of Commerce offers a program entitled "Quality of Life" that covers such issues as litter and recycling. The primary source of education programs within the County is through the local school systems. Both the Monroe County Schools and the Sweetwater Schools offer a recycling education program as part of their curriculum. Many of these students were involved with an awards program sponsored by the Bowater for Recycling unit, entitled "Most Innovative Ways to Recycle". Travelling exhibits also currently visit all county schools. Both The Democrat/Laker and the Monroe County Advocate publish articles regarding solid waste.

Since only a small part of the community is being covered by current educational programs, more broad based goals and objectives must be established. In order to meet the goal of proper solid waste management, the public must develop a heightened awareness of, and sense of responsibility for, conserving the environment. Through education the public can learn to solve many of the problems associated with solid waste. The objective of creating a more enlightened public can be reached by expanding upon the following basic tenets:

1. Reduce solid waste by altering purchasing and consumption habits. Buy products which create the least amount of solid waste.
2. Reuse products whenever possible before discarding them.
3. Recycle solid waste items which can be made into new products. Recover organic matter to soil composition.

4. Review our disposal practices to insure that unusable solid waste is not polluting the environment, but make sure that it is placed in a safe sanitary landfill.
5. Evaluate our present lifestyles to determine how they can be changed to become more kind to the environment.

There are five major target groups for educational purposes. Through these five groups the issues of proper solid waste management can be spread to a large section of the community. These five groups are:

1. School children (pre-school, elementary *the main focus*, and secondary)
2. Government officials (i.e. County Commission, planning officials, city councils)
3. Civic groups (i.e. Kiwanis, AmVets, church groups, garden clubs)
4. Business and industry (i.e. industrial associations, Chamber of Commerce)
5. At-large community (i.e. community halls, parks, shopping centers)

The Keep America Beautiful program should best reach all of these groups in the most efficient and effective way. While the Keep America Beautiful (KAB) program becomes established, an assortment of programs will be used to help disseminate information to these groups. The focus of this information will be on finding alternatives to disposing of waste in Class 1 landfills and eliminating environmentally hazardous practices. This includes reducing waste at the source, recycling (residential, institutional, and industrial), lessening the impact of litter, and illustrating the harm caused by illegal burning and dumping.

Within the school system a series of different grades should be targeted for instruction. By choosing Fourth, Seventh, and Tenth Grades similar materials can be used for up to three years without becoming repetitive. Using established environmental curriculum (i.e. V.E. Vivian's Solid Waste/Energy Curriculum), and locally oriented presentations, most students needs can be met. Most curriculums can be ordered through ERIC or Keep America Beautiful at a fairly minimal cost.

A series of workshops and conferences will be provided for merchants, industrialists, public official, and the public at large. Some of these seminars will focus on waste reduction and recycling. Other programs will focus on local services, regional services and national solutions to solid waste management problems. Audio-visual presentations should include TVA's video "Rural America: The Solid Waste Issue Hits Home." The local media will need to be constantly updated on events through a series of monthly or bi-monthly news releases.

In cooperation with the education programs at both the local school level and for the adult community, a series of award programs will be instituted. These awards will honor local individuals, groups, and businesses for progress they have made in improving the region through better waste management practices. The awards presentations would best fit as part of the workshops and conferences. To assure a broad approach at the seminars, local input should be complemented with exhibits and demonstrations from outside the region. Also, a list of possible speakers should be developed, including individuals from the region, state, and even the national level.

The newly hired staff person will be responsible for these programs. For the initial few years, this individual would work on primarily the school education requirements and on establishing some basic adult oriented workshops. The staff person would also be responsible for quarterly evaluation reports to the Monroe County Solid Waste Regional Board.

A 10-year implementation schedule, with specific milestones for measuring progress toward implementation of the education element of the plan is shown on the following page.

A ten year budget, including both capital and annual operating costs, has been prepared to summarize the total costs of the regional education program. Monies to cover these educational services, should consist of a combination of: a fee attached to waste disposal, in-kind services and donations, memberships, increased revenue from recycling, grants (i.e. litter grant), and revenue from city and county general funds. The 10 year budget can be found on the page following the implementation schedule.

Ten Year Implementation Schedule for Education Program

Education	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Enforce Illegal Dumping	X										County Court	N/A	N/A
Establish KAB Franchise	X										Solid Waste Board	\$2,000	General Funds
Hire Education Coordinator	X										County	\$15,000	General Fund
Educate the Target Groups		X									Education Coordinator	\$1,500	State Grants / Private Donation
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

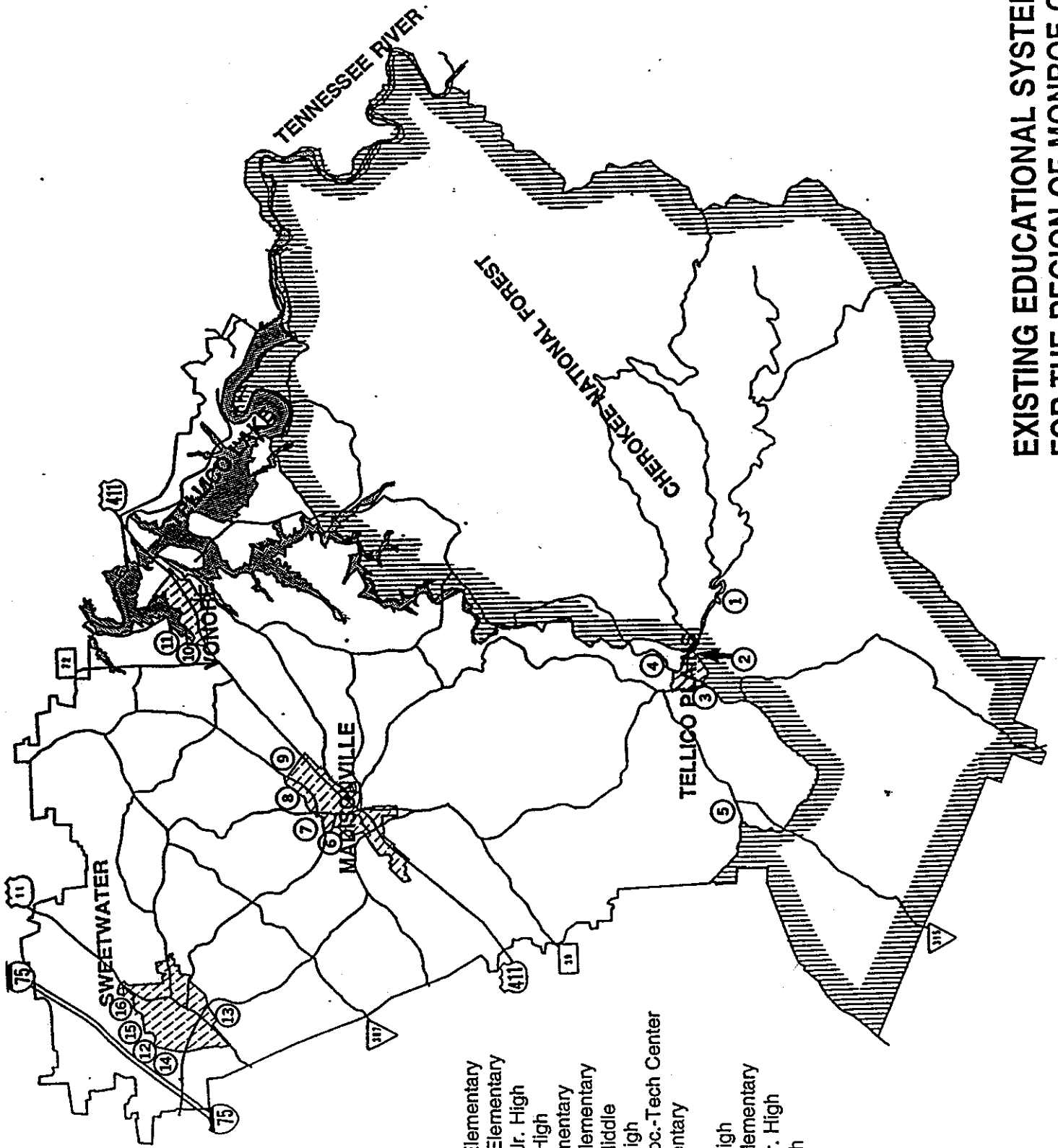
Table IX-1

Annual Capital and Operating Costs for Education Program in Region of Monroe County

Program:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Audio/Visual Equipment:	\$600	\$1500							\$1500	
KAB Franchise Fee:	\$2500									
Equipment:	\$1000	\$4000	\$1000	\$1000						
Total Capital Costs:	\$4100	\$5500	\$1000	\$1000					\$1500	
Operational Costs:										
Personnel:	\$9000	\$20,000	\$24,000	\$26,000	\$28,000	\$31,000	\$34,000	\$35,590	\$37,000	\$39,000
General office, phone, etc.:	\$800	\$1000	\$1250	\$1300	\$1400	\$1500	\$1600	\$1700	\$1800	\$2000
Promotions, publications, etc.:	\$650	\$1000	\$1200	\$1500	\$1750	\$2000	\$2225	\$2500	\$2750	\$3000
Teacher In-Service:	\$1500	\$2250	\$2350	\$2500	\$2600	\$2750	\$3000	\$3000	\$3250	\$3250
Travel/Training:	\$300	\$2250	\$2350	\$2500	\$2600	\$2700	\$2800	\$2900	\$3000	\$3100
Local Mileage::	\$1000	\$1100	\$1200	\$1300	\$1400	\$1500	\$1600	\$1700	\$1800	\$1900
KAB Annual Fee:		\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250
Total operational costs:	\$8800	\$10,392	\$10,733	\$11,075	\$11,417	\$11,759	\$12,100	\$12,442	\$12,784	\$13,125
Total Capital & Operational Costs:	\$17,350	\$33,350	\$33,750	\$36,350	\$38,150	\$41,700	\$45,475	\$47,550	\$51,350	\$52,500

Annual Funding Plan for Education Program

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
General Fund	\$14,000	47%
Grants	\$1000	3%
Private Donations	\$15,000	50%
Total	\$30,000	100%



1. Coker Creek Elementary
2. Tellico Plains Elementary
3. Tellico Plains Jr. High
4. Tellico Plains High
5. Rual Vale Elementary
6. Madisonville Elementary
7. Madisonville Middle
8. Madisonville High
9. Monroe Co. Voc.-Tech Center
10. Vonore Elementary
11. Vonore High
12. Sweetwater High
13. Sweetwater Elementary
14. Sweetwater Jr. High
15. Brown Jr. High
16. TMG (Japan)

**EXISTING EDUCATIONAL SYSTEM
FOR THE REGION OF MONROE COUNTY**

Statutory Requirements:

"...[E]ach plan submitted by a municipal solid waste region shall include...a plan for the disposal of household hazardous wastes; [T.C.A. 68-211-815(b)(8)]

"...Each county...shall provide a service site and shall advertise...the day(s) and hours and location where the household hazardous wastes will be collected...[and]...furnish at least one(1) person...who will assist...[at the] collection unit." [T.C.A. 68-211-829].

"...Effective January 1, 1995, no municipal solid waste disposal facility or incinerator shall accept for disposal any whole waste tires, lead acid batteries, or used oil..." [T.C.A. 68-211-866(a)]

"...By January 1, 1995, each county shall provide at least one (1) site to receive and store waste tires, used automotive oils and fluids, and lead-acid batteries...[and]...shall sell and/or cause the transfer of the recyclable materials...to a commercial recycler or a regional receiving facility..." [T.C.A. 68-211-866(b)]

"...(E)ach plan submitted by a municipal solid waste region shall include...any other information as the Director of the State Planning Office may deem relevant to the implementation of the Act." [T.C.A. 68-211-815(b)(15)]

The Solid Waste Management Act directly addresses four problem wastes. The Region of Monroe County, in its plan, must describe how the regional programs will interface with the state household hazardous waste collection service. The Act also bans disposal of scrap tires, batteries and waste oil in landfills after January 1, 1995, and requires the County to develop an infrastructure for accepting, storing, recycling or safe disposal of these materials by the end of 1994. The regional plan addresses these requirements.

The Act does not address litter prevention/education/remedial action programs. However, the community efforts funded by the litter grants are acknowledged, evaluated, and incorporated into the regional plan.

No data on current handling of waste tires, used oil or lead acid batteries was collected in the District Needs Assessment. The Act bans these materials from landfills or incinerators by the end of 1994, and requires the County to provide a site to receive and store them for ultimate recycling and disposal. The regional plan describes how the Region will collect necessary data to locate, design and open these collection sites by the statutory deadline. Specific information included for each problem waste is provided in the pages that follow. A more detailed plan will be required when the regional plan is updated in 5 years.

A. HOUSEHOLD HAZARDOUS WASTE (HHW)

Regional Needs for a HHW Management Program

- 1) Identify an appropriate temporary site for collection,
- 2) Promote the collection event through advertisement and education, and
- 3) Provide County site representative during Collection Event.

Several potential temporary locations have been identified by the County for the collection, sorting and packaging of HHW. Given the minimum requirements of a temporary site required by the Tennessee Department of Environment and Conservation, as cited in the Policy Guide on County Responsibilities for the Tennessee HHW Collection Program, 1993, appropriate locations in Monroe County could be:

Walmart (Madisonville)
Monroe County Schools
Sweetwater Schools
Local Grocery Stores

Since the Walmart, Sweetwater Schools and local grocery store locations are not County-owned, the County will be responsible for all leasing arrangements. The leasing arrangement will be in writing and submitted to the Special Waste Section Manager (Department of Solid Waste Assistance, TDEC) 15 working days prior to the Collection Event. Seven to fifteen days prior to the Collection Event, the County will allow the HHW collection contractor to inspect the site in order to finalize plans for the Event.

The County will have a site location identified when submitting a request in writing to the State for the collection service. The request will identify any of the site criteria that are impossible for the County to meet. The County will provide one or more waste containers for the collection of nonhazardous household waste at each Collection Event and provide for the proper disposal of the nonhazardous wastes.

The County will advertise in the local newspapers the date, hours and location of the Collection Event. The advertisement will be published at least two full weeks preceding the event date and during the week of the event. The ad will specify that only 110 pounds of waste will be accepted from each household during the event and list the items excluded from the program, as well as examples of acceptable items. The ad will indicate that the collection and disposal costs will be paid by the State of Tennessee.

The County will provide educational materials and brochures concerning HHW collection and disposal to the public. Educational materials provided by the contractor and the State will also be made available for use by the County. In addition, the proposed Keep America Beautiful program for Monroe County will support and promote the HHW through the local schools, to businesses, civic organizations and the general public.

A site representative will be provided by the County and available on site to represent the County during the Collection Event. The site representative will safeguard the County property used by the collection contractor (land and waste containers) and manage problems that may arise during the collection of HHW with County-owned utilities and the nonhazardous waste containers.

The site representative will be available to assist the collection contractor in the event of an emergency. Telephone numbers for the local law enforcement, emergency response, and nearest medical facilities and the address of the medical facilities will be provided to the collection contractor. The site representative will be responsible for notifying the proper authorities if necessary.

Provided below is an estimate of the program costs to the County for a HHW collection program.

HOUSEHOLD HAZARDOUS WASTE COLLECTION

<u>PROGRAM ELEMENTS</u>	<u>PROGRAM COSTS</u>
Site (containers)	Leasing \$150 (service solid waste containers)
Advertisement	\$200 (newspaper article, brochures)
Site Representative	<u>\$ 60</u> (\$6/hr @ 10hrs.)
Total	\$410

Potential site locations: Walmart (Madisonville)
 Monroe County Schools
 Sweetwater Schools
 Local Grocery Stores

Site Criteria:

- Be accessible by paved roads
- Convenient location
- Paved working area (100 ft. X 100 ft.)
- Accommodate at least 15 cars
- Clean water source
- Toilet facilities
- Telephones
- 110 electrical outlet

Program to be held twice a year at potential site location(s) = **\$820** (no leasing costs)

Progress of the program will be reported annually to the State on the types and amounts of HHW collected and the number of people served by the program. As per, T.C.A. Section 68-211-863(b), the Region will submit these annual reports to the State Planning Office.

B. WASTE TIRES

The current (1993) waste tire handling and disposal practices in Monroe County are supported by a waste tire storage site located at the Monroe County Landfill in Madisonville. The approximate size of the site is 220' X 220'. The site can store approximately 43,354 tires. During the fiscal year 92/93, 14,534 tires were sold in Monroe County (This quantity was calculated from the annual amount of the tire pre-disposal fees paid into the Solid Waste Management Fund each year. The annual revenues was obtained from the Department of Revenue, 1993). The existing storage site is capable of handling the current discard rate.

The County will continue to inventory illegal tire piles and estimate the quantity of tires in each through the operations of the County litter prevention program. Education efforts to impact illegal dumping will be coordinated with the Keep America Beautiful program in Monroe County.

The County estimated annual capital costs of the storage site to be \$16,275. A grant for \$5,000 was given to the County in 1993 to reimburse expenses for constructing the site location. An additional \$5,000 grant will be pursued by the County for the waste tire storage site after the plan is approved in 1994.

Tire shredding operations have not been implemented at the site to date. When enough tires are stored at the site (approximately 5,000), the tire shredding contractor will be notified to begin operations. The County Landfill Operator will be on site to assist the contractor if necessary. Shredded tires will be disposed at the Monroe County Landfill.

Estimated operational costs on the maintenance of the storage site, vector control, and shredding operation support will be integrated into the daily activities of the landfill operator already on site at the County landfill.

C. WASTE OIL

Waste oil (and other used automotive fluids) is currently managed in the County at local gasoline and automobile service stations who supply waste oil tanks for temporary disposal. No estimate on the quantity of oil that was recovered in 1993 is available for Monroe County. The waste oil is currently being handled efficiently by the private sector. The County will continue to support the existing efforts through education and information provided to the public on possible locations. Also, the County will provide oil collection tanks at each of the three convenience center sites for the public to utilize. These sites will be available for public use by January 1, 1995.

Industrial Waste Oil in Knoxville will supply a 300 gallon tank, or 55-gallon drums, at each site, pump once to twice weekly, and provide receipts for amounts at no charge (tank agreement signed).

Other automobile fluids:

Used oil filters - 55 gallon drums @ \$55 - \$75/drum (up to 100 miles)

Antifreeze - 55 gallon drums @ \$25/drum

Pumped two (2) to four (4) times a year.

In addition, the County will encourage the public to bring waste oil and other automobile fluids at the scheduled HHW collection events to be held in the County at least twice yearly.

D. LEAD ACID BATTERIES

Lead-acid batteries are not currently managed efficiently in the County. The County will provide at least one collection site, the receive and store discarded batteries as required by T.C.A. 68-211-866(b) through the scheduled HHW collection program scheduled at least twice yearly.

E. LITTER

The County will continue to operate the litter prevention program for the collection of roadside litter and the clean-up of identified roadside dumps. The County Highway Department administrates the litter prevention grant. In 1993, approximately 15 illegal dump sites were identified (approximate amount of trash unknown). Nearly 72 tons of roadside litter was collected by the Highway Department. The Highway Department utilizes volunteers from the JPTA summer work program to collect litter. During the other months, prisoners are used to gather roadside litter and clean-up illegal dump sites. Also, an Adopt-A-Highway program operates within the County.

During the fiscal year 93/94 the County must designate at least 10% (\$4,800) of the litter prevention budget to educational efforts. The Highway Department has identified several educational methods to inform the public about littering and illegal dumping: litter bags to be distributed to school children by the County Sheriff Department; and paid advertisements concerning littering behavior in local newspapers monthly.

In addition, the Keep America Program for the County will integrate efforts with the existing County programs to encourage non-littering behavior.

F. TIMETABLE FOR PROBLEM WASTE COLLECTION PROGRAM

Provided on the next page is a timetable to indicate the schedule of events planned with regards to problem waste collection.

Ten Year Implementation Schedule for Household Hazardous Waste

HHW	9 4	9 5	9 6	9 7	9 8	9 9	0 0	0 1	0 2	0 3	Responsible Party	\$ Annual Amount	Funding Source
Use State's Mobile Equipment	X										Solid Waste Board	\$1,000	Tipping Fee
Publicize HHW Sites	X										Solid Waste Board	\$1,000	Tipping Fee
Continue Use of Tire Storage Site	X										County	\$15,000	State Grant/ Tipping Fees
Integrate HHW Sites with Convenience Centers			X	X	X						County	\$1,000	State Grant
Contract with Private Hauler For Disposal of HHW		X									County	\$500	Tipping Fee
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	N/A

G. Funding Plan

Annual Funding Plan for Household Hazardous Waste

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
Tipping Fees	\$15,000	94%
Grants	\$1000	6%
Total	\$16,000	100%

IMPLEMENTATION: SCHEDULE, STAFFING AND FUNDING

The Solid Waste Board for the Region of Monroe County has developed the following components into an integrated solid waste management system:

1. Disposal
2. Waste Reduction
3. Collection
 - Problem Waste
4. Recycling
5. Education

A. Disposal

The Region of Monroe County currently generates about 29,765 tons of waste per year of which 72%% of this waste ends up at the Class I landfill site. The Region of Monroe County currently has a publicly owned Class I landfill that has an estimated closing of October, 1996. The region of Monroe County is currently working with the State to achieve a Class IV Landfill permit near the existing Class I landfill site. The Solid Waste Board of Monroe County felt that the region of Monroe County would be better off planning to haul their Class I waste to another Class I landfill, rather than the County building a County owned landfill for Class I waste. The region of Monroe County has enough land to use for a Class I landfill site, but would like to wait and see how surrounding landfills handle the new State regulations and how much competition there will be for Class I waste.

The current funding of the landfill is made up largely of three sources: city and county general funds and tipping fees. This method of funding should remain constant in the upcoming 10 year planning period with possibly a little more emphasis being placed on tipping fees. The Class IV landfill should operate solely on tipping fees with some money being used for the operation of the transfer station out of the County's general fund.

B. Waste Reduction and Recycling

In order for the Region of Monroe County to meet the 25% waste reduction mandate by the State, an integrated waste reduction and recycling system must be in place. The region of Monroe County will continue to rely heavily on industrial\commercial recycling, from which a 20% rate of waste reduction is being achieved, in the future. As the education programs become established in the public arena, an estimated 3% waste reduction can be achieved in the near future. Finally, through the use of the Class IV landfill another 5% of waste can be diverted from the Class I landfill. The Cities will be expected to continue their recycling programs and greater emphasis will be placed on recycling as tipping fees increase and better marketing of recycleable material is established. Also, the County will be phasing in recycling drop off sites at all of their convenience centers in the next 10 years. It is estimated that nearly 28% of the waste can be diverted in the region of Monroe County by the private sector, industrial/commercial sectors, and the institutional sector.

The Solid Waste Board recognizes the need to recycle material and with the help of the recently formed Keep America Beautiful (KAB) franchise it should see some increase in recycling efforts by the public in the future. The region of Monroe County will continue to support the private sector in terms of establishing a working relationship for recyclable materials and publicizing the private sector ability to handle recyclable materials, either through collection or processing.

Finally, the region of Monroe County will continue to work with the industries on ways to reduce waste through source reduction. The Center for Industrial Services will be contacted to help those industries willing to find ways to reduce their waste and possible save the company money.

C. Collection

Currently, the cities and private haulers make up the collection system in the region of Monroe County with nearly, 16,533 residents being provided door-to-door collection of waste. This leaves 14,203 or 46% of the residents in the region of Monroe County without any kind of collection system. Using the State formula for the minimum level of solid waste collection service required in the region, the region of Monroe County must have at least one convenience center in place by January 1, 1996. The Solid Waste Board feels that to better serve the public the solid waste plan should provide a total of three convenience centers, phased in over the 10 year planning period.

Not only do the convenience centers give the public more accessible access for the disposal of their waste, but the convenience centers will also allow the region to integrate other solid waste programs in the future for the public.

Besides the integration of recyclable material drop offs at the convenience centers. The convenience centers will also be used to drop off household hazardous waste (HHW) in the region of Monroe County. The Region of Monroe County still plans to utilize the State's mobile equipment for disposal of HHW; but with the integration of HHW sites at the convenience centers, greater public participation should occur due to the easier access county wide. All HHW material from the convenience centers will be transported to a central location, such as the transfer station site for the proper disposal of the material.

D. Education

Education, as in most aspects of life, plays a major role in the success and failure of programs, such as the solid waste program. The ability to educate the people on the proper disposal of solid waste will decide the fate of the solid waste management plan for the Region of Monroe County. The Regional Solid Waste Board, realizing the importance of a solid waste education program, formulated and implemented an education program under the franchise of Keep America Beautiful.

Besides holding some public functions within the region of Monroe County that gets the public involved. The education coordinator will be focusing on the school children during the upcoming school year. It is the hope of the education coordinator that with the help of the teachers the school kids can be taught the correct way to handle solid waste and make it an everyday practice. The education coordinator will also target the older generation within the upcoming years.

Managed Waste Stream

System Components:	Tons of Total Waste Stream Managed:	% of Total Waste Stream Managed:
Class IV Landfill	1500	6%
Convenience Centers	8230	33%
Recycling	7000	28%
Direct hauling to Transfer Station	8230	33%
Total System Components	24,960	100%
Total Hauling From Transfer Station	16,460	

Staffing and Training Requirements

Components:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Data Collection:	XY									
Class IV landfill :		3X								
Equipment Operator:		1X								
Attendant :		1Y								
Mechanic:		1X								
Convenience Centers:		1XY	1XY	1XY						

Budget

Components:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Class IV Landfill:			\$223,617	\$227,446	\$231,275	\$235,104	\$238,933	\$242,762	\$246,591	\$250,420
Transfer Station:			\$966,825	\$497,331	\$511,571	\$525,811	\$541,051	\$554,291	\$568,531	\$582,771
Convenience Centers:		\$61,698	\$71,744	\$82,410	\$43,871	\$45,127	\$46,383	\$47,639	\$48,895	\$50,150
Recycling:		\$13,954	\$9477	\$9477	\$7558	\$7558	\$7558	\$7558	\$7558	\$7558
Education:	\$17,350	\$33,350	\$33,750	\$36,350	\$38,150	\$41,700	\$45,475	\$47,550	\$51,350	\$52,500
Total Components:	\$17,350	\$109,002	\$1,305,413	\$853,014	\$794,275	\$855,300	\$879,400	\$899,800	\$922,925	\$943,399
Landfill Closure Costs:	\$491,208	\$773,826	\$617,976	\$149,544	\$8152	\$8560	\$8988	\$9437	\$9909	\$10,404
Total Costs:	\$508,558	\$882,828	\$1,923,389	\$1,002,558	\$802,427	\$863,860	\$888,388	\$909,237	\$932,834	\$955,803

2a. The Class IV landfill could be financed through a grant/loan from farmer's home over a 30 year period, which should coincide with the life of the landfill.

b. The closure of the Class I landfill will be funded in part by tipping fees at the transfer station and the rest will be absorbed in the general fund.

c. The transfer station will be funded in part by tipping fees and the rest will be absorbed in the general fund.

d. The convenience centers will be financed in part by a State grant and the rest by user fees.

e. The integration of the recycling into the convenience centers will be financed through grants from the State.

Implementation

Schedule

1. Recycling
2. Collection
3. Disposal
4. Education
5. Household Hazardous Waste

Ten Year Implementation Schedule for Recycling Program

Recycling:	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Encourage Industrial/ Commercial	X										County / CIS	N/A	N/A
Integrate Recycling with Convenience Centers		X		X	X	X	X	X	X		County	\$4,477	General Fund/ Tipping Fees
Integrate Recycling with Door-to-Door Collection	X	X									Cities	\$20,000	Solid Waste Fee
Educate the Public	X										Education Coordinator	\$15,000	State Grants/ Private Donations
Purchase Recycling Equipment		X									County / Cities	\$20,000	State Grants
Join R.M.C.E.T.		X									County	\$10,000	Sale of Recyclable
Communicate with Office of Cooperative Marketing		X									Solid Waste Board	N/A	N/A
Plan Updates	X					X					Solid Waste Board	N/N	N/A
Annual Reports and Data Collection	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Collection Program

Collection:	9 4	9 5	9 6	9 7	9 8	9 9	0 0	0 1	0 2	0 3	Responsible Party	\$ Annual Amount	Funding Source
Continue Door to Door Collection	X										Cities & Private Haulers	Varies	Solid Waste Fee
Establish Standards for Private Haulers		X									State	N/A	N/A
Construct & Purchase Equipment for Convenience Centers			X	X	X						County	\$41,300	State Grant and General Fund
Manned Convenience Centers	X										County	\$120,907	General Fund
Certification of Staff			X								State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Disposal of Solid Waste

Disposal	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Closure of Monroe County Class I Landfill			X								County	\$141,790	Tipping Fees
Post Closure Care				X	X	X	X	X	X	X	County	\$8000	Tipping Fees
Construction of Transfer Station			X								County	\$222,000	Tipping Fees
Purchase of Equipment			X								County	\$326,000	General Fund
Consider Transferring Ownership to a Solid Waste Authority				X							County	N/A	N/A
Training Personnel			X								State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Report	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Education Program

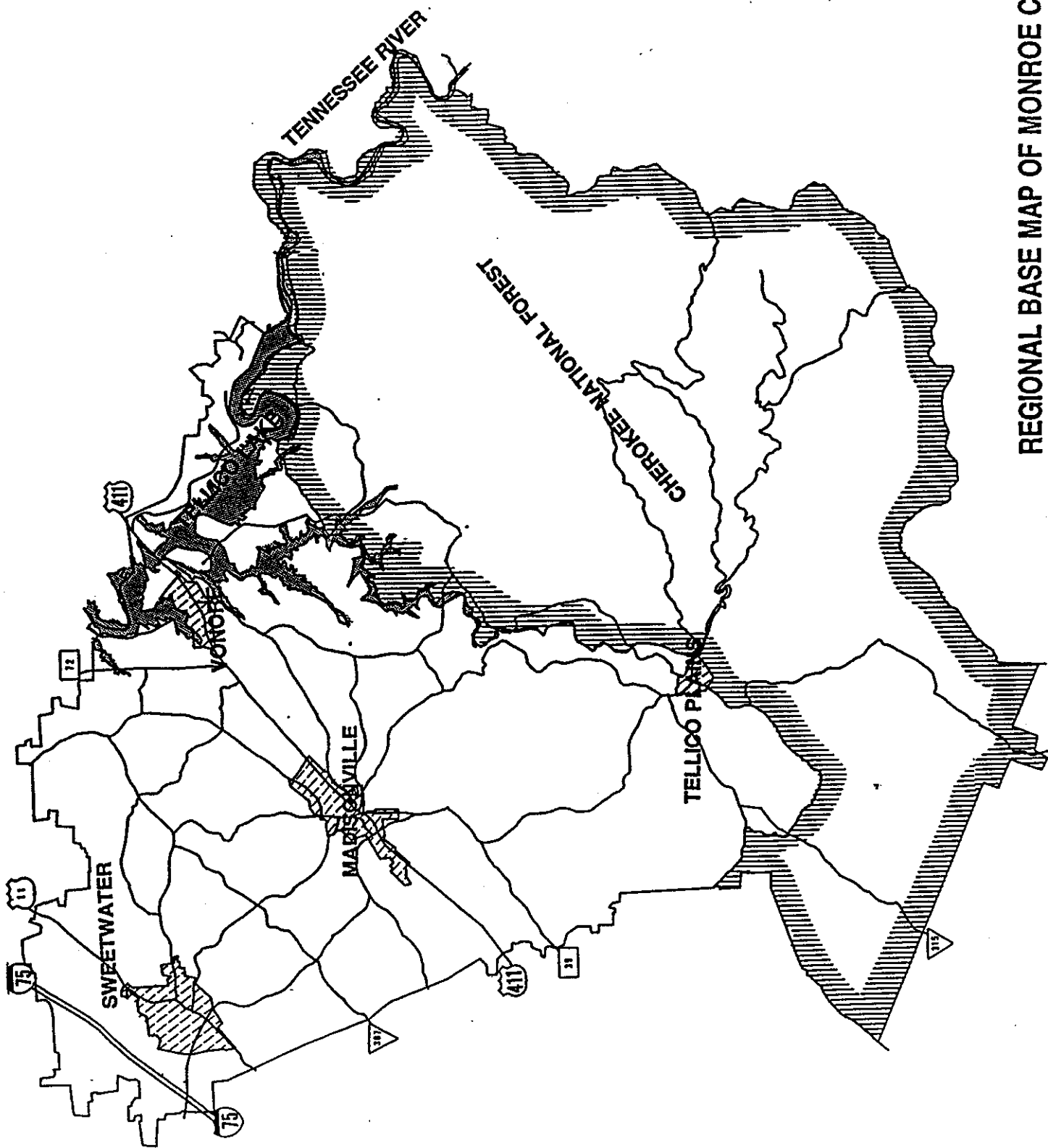
Education	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Enforce Illegal Dumping	X										County Court	N/A	N/A
Establish KAB Franchise	X										Solid Waste Board	\$2,000	General Funds
Hire Education Coordinator	X										County	\$15,000	General Fund
Educate the Target Groups		X									Education Coordinator	\$1,500	State Grants / Private Donation
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	Tipping Fees

Ten Year Implementation Schedule for Household Hazardous Waste

HHW	9 4	9 5	9 6	9 7	9 8	9 9	0 0	0 1	0 2	0 3	Responsible Party	\$ Annual Amount	Funding Source
Use State's Mobile Equipment	X										Solid Waste Board	\$1,000	Tipping Fee
Publicize HHW Sites	X										Solid Waste Board	\$1,000	Tipping Fee
Continue Use of Tire Storage Site	X										County	\$15,000	State Grant/ Tipping Fees
Integrate HHW Sites with Convenience Centers			X	X	X						County	\$1,000	State Grant
Contract with Private Hauler For Disposal of HHW		X									County	\$500	Tipping Fee
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	Y	Y	X	X	X	X	X	X	X	X	Y = Solid Waste Board X = Solid Waste Coordinator	\$25,000	N/A

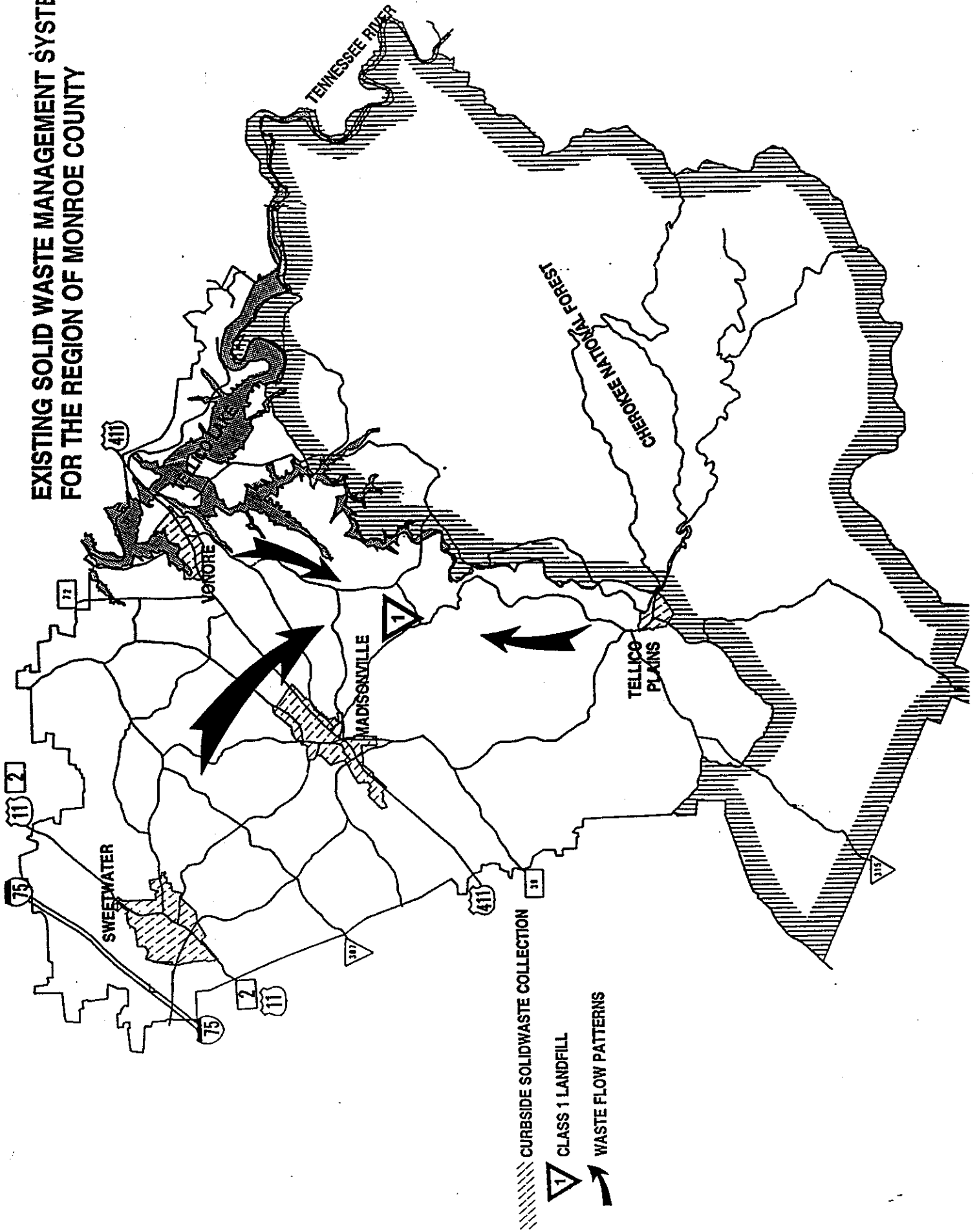
Maps

1. Regional Base Map
2. Existing System Map
3. Proposed System Map
4. Education System Map

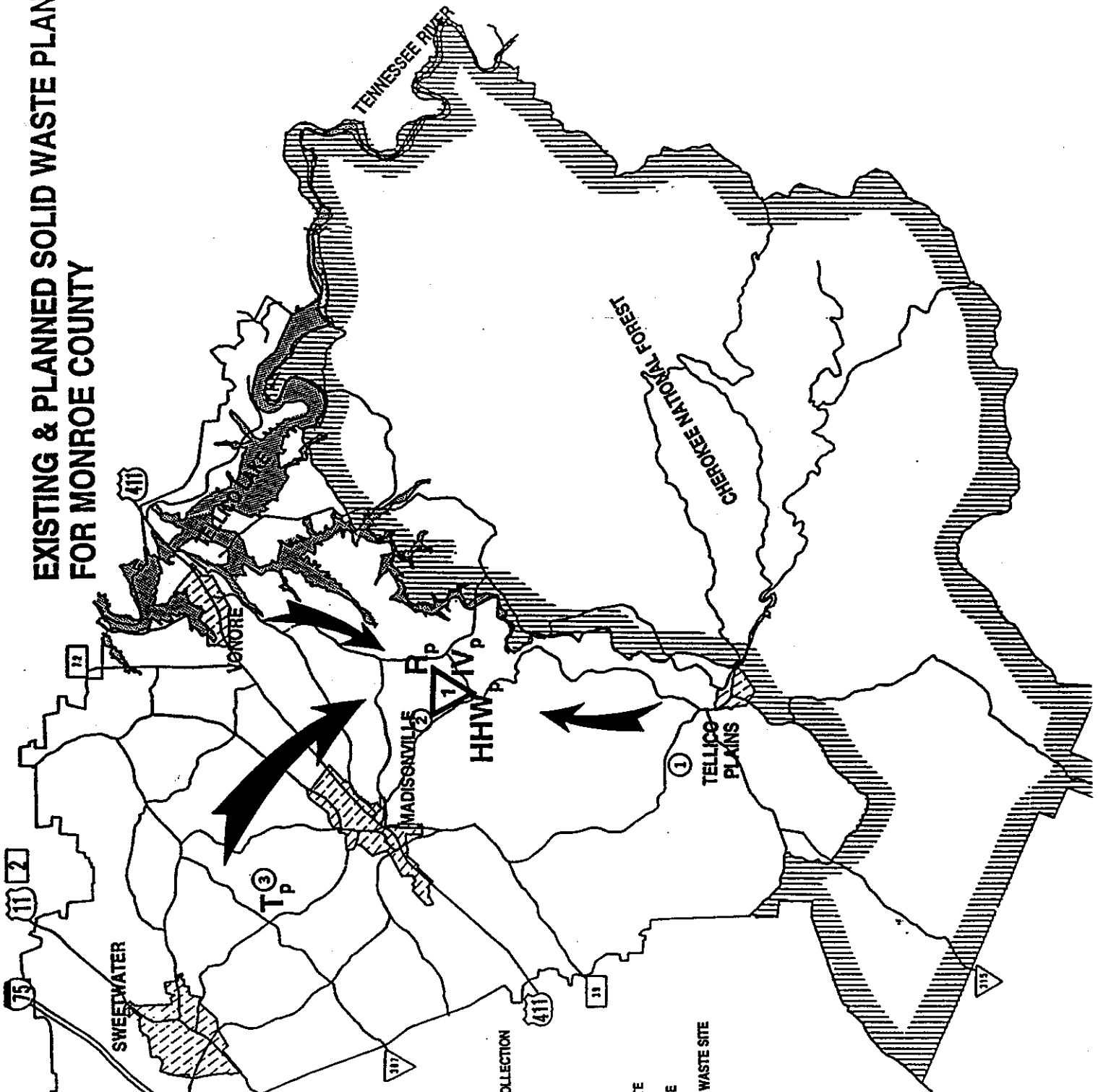


REGIONAL BASE MAP OF MONROE COUNTY

EXISTING SOLID WASTE MANAGEMENT SYSTEM FOR THE REGION OF MONROE COUNTY

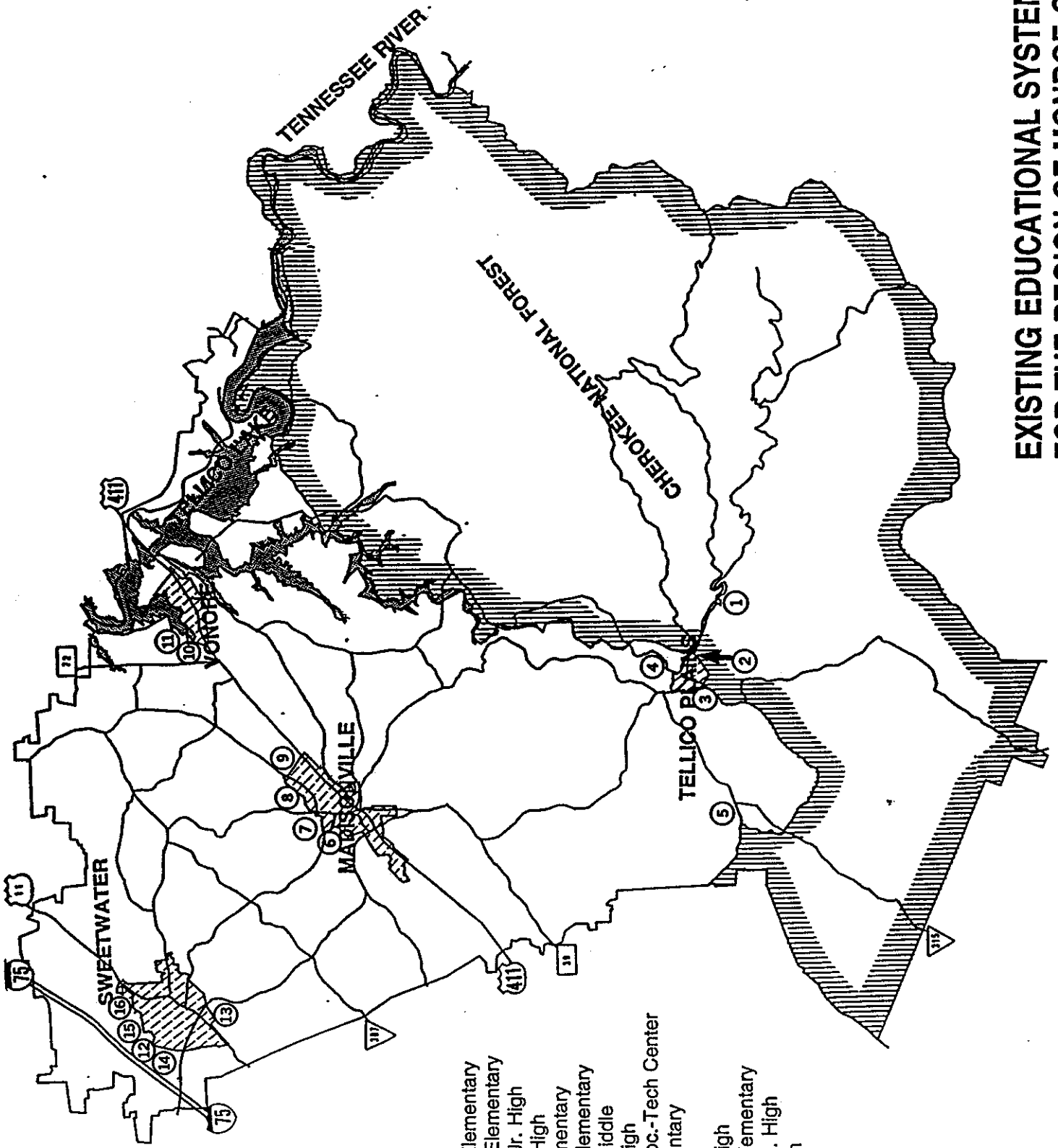


EXISTING & PLANNED SOLID WASTE PLAN FOR MONROE COUNTY



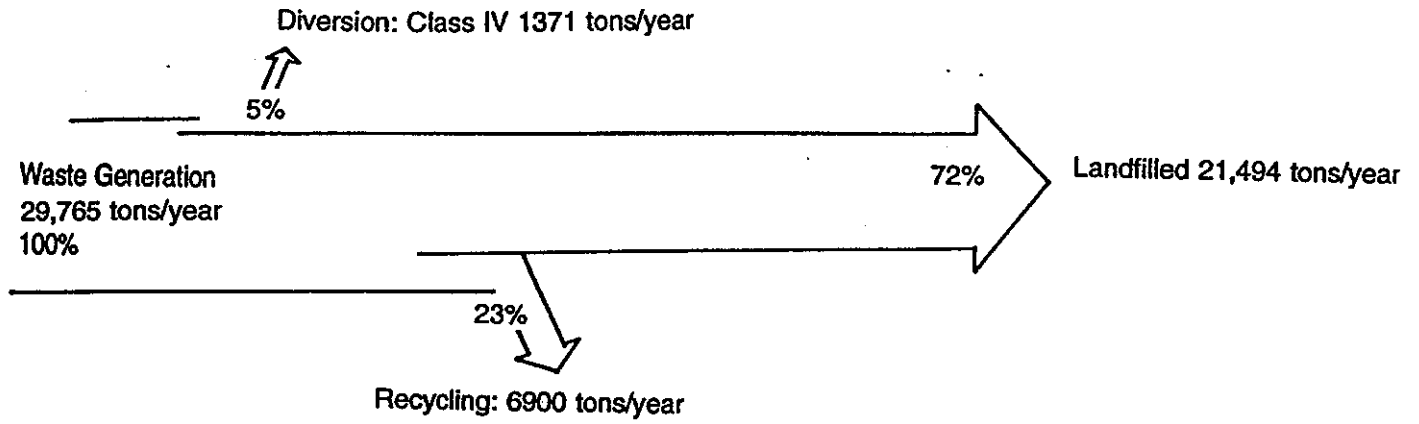
- EXISTING**
- EXISTING CURBSIDE SOLID WASTE COLLECTION
 - EXISTING CLASS 1 LANDFILL
 - EXISTING WASTE FLOW PATTERNS
- PLANNED**
- ⊕ PLANNED CONVENIENCE CENTER SITE
 - R_p PLANNED RECYCLING DROP-OFF SITE
 - HHW_p PLANNED HOUSEHOLD HAZARDOUS WASTE SITE
 - IV_p PLANNED CLASS IV LANDFILL
 - T_p PLANNED TRANSFER STATION

EXISTING EDUCATIONAL SYSTEM FOR THE REGION OF MONROE COUNTY



1. Coker Creek Elementary
2. Tellico Plains Elementary
3. Tellico Plains Jr. High
4. Tellico Plains High
5. Rual Vale Elementary
6. Madisonville Elementary
7. Madisonville Middle
8. Madisonville High
9. Monroe Co. Voc.-Tech Center
10. Vonore Elementary
11. Vonore High
12. Sweetwater High
13. Sweetwater Elementary
14. Sweetwater Jr. High
15. Brown Jr. High
16. TMG (Japan)

FLOW DIAGRAM FOR MONROE COUNTY REGION:



**ALLOCATION OF IMPLEMENTATION RESPONSIBILITIES:
PLAN ADOPTION AND SUBMISSION**

A. ONE-COUNTY REGION

1. Adoption of Solid Waste Management Plan by the Solid Waste Regional Board.
2. Adoption of Solid Waste Management Plan by the County Commission.
3. Minutes of the Regional Planning Commissions showing that the Solid Waste Management Plan was presented to them for review and comment.

Regional Board Approval

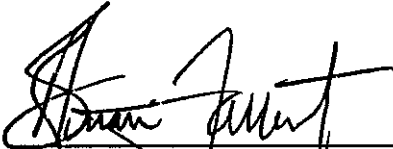
Resolution

A RESOLUTION ENDORSING THE MONROE COUNTY REGIONAL SOLID WASTE PLAN.

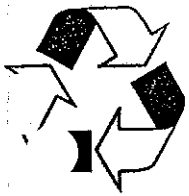
WHEREAS, the Monroe County regional solid waste board was created to evaluate the existing solid waste system and develop a 10 year plan and,

WHEREAS, the Monroe County regional solid waste board has formulated a 10 year solid waste management plan that meets all State and Federal regulations.

NOW THEREFORE BE IT ORDAINED, that the Monroe County regional solid waste board does fully endorse the Monroe County regional solid waste management plan. By signatures below the solid waste management plan will become an official document of record this 16th day of June, 1994.


Chairman Brian Tallent

Attest: _____
Vice-Chairman David Cleveland



**MONROE COUNTY
SOLID WASTE REGIONAL BOARD
MADISONVILLE, TENNESSEE**

*City of Madisonville, Glenn Moser
City of Vonore, Betty Sparks
Monroe County, Ralph Teague*

*Monroe County, Joe Helms
Monroe County, David Cleveland
Monroe County, Brian Tallent*

*City of Sweetwater, John Courtney
City of Tellico Plains, Dewayne Cardin
Monroe County, R.W. West*

**ADVISORY
COMMITTEE
MEMBERS:**

**LARRY HICKS
MARSHA STANDRIDGE
SHANE BURRIS**

**WAYNE COVINGTON
J. ALLAN WATSON
DONNIE CHAMBERS**

**REX YATES
GARY KIMSEY
BETTE TEDFORD**

**CONSULTANT
TO THE BOARD:
CHRIS GARKOVICH**

**Solid Waste
Minutes
June 16, 1994**

PRESENT
Joe Helms
David Cleveland
R. W. West
Glen Moser

ABSENT
Ralph Teague
Dewayne Cardin
Alvin Fox
Betty Sparks

OTHERS
Mitch Loomis
Sandra Ray
Lori Chambers

Chairman Brian Tallent called the meeting to order. Minutes were approved. Chairman Tallent told the Board about a public meeting prior to the County Commission Meeting, at which time the plan will be submitted.

Mitch Loomis of ETDD presented the revised plan to the Board. David Cleveland questioned the Landfill Construction Cost in 1996. That figure will be revised before the plan is presented to the Commission.

Loomis told Commissioner West that the plan could be altered at any time. A MOTION was made by David Cleveland to accept the plan after changes and to present to County Commission. SECONDED Joe Helms. Passed



County Commission Approval

Resolution No. 628-9

**A RESOLUTION RATIFYING THE MONROE COUNTY PLANNING REGION'S
MUNICIPAL SOLID WASTE PLAN**

Whereas, Tennessee Code annotated 68-211-801 et.seq. requires that each county in the State of Tennessee form solid waste planning regions, and

Whereas, said regions are responsible for developing a ten (10) year plan for the management of solid waste, and



Whereas, by resolution, the Monroe County Board of County Commissioners created the Monroe County Solid Waste Planning Region, and

Whereas, the resolution creating the Monroe County Planning Region also established a Board with the responsibility of developing, administering and updating the Region's plan as per the requirements of T.C.A. 68-211-801 et.seq., and

Whereas, the guidelines promulgated by the Tennessee State Planning require that the municipal solid waste plan prepared by the Monroe County Planning Region be ratified by the Board of County Commissioners of the County composing said Region.

Now, Therefore, Be It Resolved, by the Monroe County Board of County Commissioners that it hereby ratified the Monroe County Planning Regions solid waste plan and acknowledges Monroe County's participation and responsibilities under this plan.

Resolved, this 28th day of June, 1994, the welfare of the citizens of Monroe County, Tennessee requiring it.


CHAIRMAN

County Executive

ATTEST: 
County Clerk

Regional Planning Commission Minutes

MINUTES
MADISONVILLE REGIONAL PLANNING COMMISSION
May 31, 1994

MEMBERS PRESENT

Leonard Blevins
Sarah Denton
Linda Garrett
William Johnston
Frances Maxwell
Alfred McClendon
William Stewart

MEMBERS ABSENT

Ralph Edwards
Charlie Lee

OTHERS PRESENT

Mitch Loomis
Jenies McConkey
Mr. Watson
Rita Evans
Lena Watson
Rena Morgan
Ron Pearson

Staff Representative: Jim Bryant

CALL TO ORDER AND REVIEW OF MINUTES

At approximately 6:30 pm the meeting was called to order by Mr. Johnston, and the minutes of the April planning commission meeting were reviewed by the commissioners. Subsequently, Mayor Maxwell made a motion to approve the minutes, followed by a second, and the commission unanimously accepted the minutes of the May meeting.

PRESENTATION BY MITCH LOOMIS OF THE EAST TENNESSEE DEVELOPMENT DISTRICT-MONROE COUNTY SOLID WASTE PLAN

Mitch Loomis gave a brief presentation of the Monroe County Solid Waste Plan, which was followed by a discussion of various aspects of the plan. Several commissioners, along with Mr. Pearson and staff, asked questions relating to the funding of some of the elements noted on a handout sheet. Mr. Loomis stated that the bulk of funding would not be derived from tax increases, but would be generated from fees or other sources of revenue. After further queries and explanations, Mr. Loomis concluded by saying that no action was needed by the commission, since his presentation was meant to inform the members of the general nature of the solid waste plan.

PETITIONS OR COMMUNICATIONS FROM THE PUBLIC

A group of residents from the Pine Street and Mill Street areas of Madisonville (Rita Evans, Lena Watson, and Rena Morgan) discussed their view of unsanitary and unkempt conditions near a vacant trailer and associated lots. According to the complaints of the residents, the lots were occupied by substantial debris and rodents. They were concerned that the value of their property was being reduced by the poor conditions of nearby lots. Numerous mosquitos were also noted by the residents as a previous nuisance. Mr. Pearson, codes compliance officer, stated that he was aware of the problems and was in the process of taking action which would probably help alleviate the difficulties in the future. In particular, Mr. Pearson noted that anticipated changes in the city code would provide a means of forcing noncompliant property owners to improve unhealthy and disorderly conditions.

CODES COMPLIANCE REPORT

Mr. Pearson reviewed codes compliance activities during the past month in Madisonville. Among these activities were consultations with the city attorney, Mr. Buckley, concerning a revision of the city ordinance on leins attached to property belonging to owners in violation of the city code. Mr. Pearson also commented on a letter sent to Mr. Eddie Harrill for codes violations, and the issuance of four building permits. Also, Mr. Pearson briefly discussed an article he had read and distributed to the commissioners, describing some methods of revitalizing the central business districts of cities.

REZONING REQUEST-PARCELS 25 AND 26 (MAP 67-D)-MAXWELL STREET-R-2 TO C-3-JENIES McCONKEY

Mr. Watson, representing Mr. McConkey, described the request to rezone the property on Maxwell Street currently occupied by a cabinet shop, which is a non-conforming use within the R-2 zoning district. The spokesman for Mr. McConkey stated that Mr. McConkey may attempt to sell the lot occupied by the cabinet shop, and noted that the property would be difficult to sell under its current zoning. Mr. Watson also contended that a rezoning would simply recognize a commercial use that had existed prior to the adoption of the zoning ordinance, and would do no harm to the residential neighborhood adjacent to it.

In response, staff recommended that the property should not be rezoned, and that such a rezoning to C-3 (Highway Commercial) was undesirable for the following reasons: (1) the residential street was inappropriate for C-3 zoning; (2) the other uses on the side of Maxwell Street occupied by the cabinet shop were residential; (3) spot zonings were to be avoided and coherent neighborhood edges were to be maintained; (4) potential future commercial uses would probably be detrimental to the residential neighborhood; and, (5) Mr. McConkey's commercial operation was intended to be a non-conforming use (at the time of its inclusion in a residential zone) which would terminate when the original commercial activity ceased operation.

Action Taken

Following discussion on the topics noted above, the chairman asked for a motion regarding the request and no motion was made. Thus the request failed for lack of a motion, and no change was recommended to the zoning map. Staff noted that Mr. McConkey's request would logically go to the city council for a decision.

NOTE ON DOYLE HUNT'S TOOMEY ROAD/WARREN STREET PROPERTY

Mr. Hunt had requested that he be allowed to discuss his proposals for his property with the planning commission, however he did not appear at the meeting.

COMMENT ON MOBILE HOME AMENDMENT TO THE ZONING ORDINANCE

Staff briefly stated that an amendment to the existing ordinance dealing with mobile homes was a relatively simple matter, which he would draft for the June commission meeting. He observed that the

amendment would disallow single lot sitings of mobile homes in the R-1 zoning district, while allowing them in the R-2 district.

ADJOURNMENT

Since there was no further business to address by the planning commission, the meeting was adjourned with the unanimous consent of the commissioners.

FLOW CONTROL AND PERMIT APPLICATION REVIEW**I. New Facility Permit Application Review****A. Basis For Review**

The review of any application for landfill approval with the Monroe County Regional Solid Waste Board will be based upon compliance with the intent of the plan as written, approved, and adopted. The primary questions which must be answered will be as follows:

1. Will the additional landfill volume be needed for the region to maintain environmentally acceptable and cost-effective Class I disposal volume for the waste generated within the region?
2. Will the location of the new landfill or extension within the region provide for more cost-effective disposal of Class I waste without sacrificing environmental acceptability?
3. Is the location of the facility suitable for a landfill to serve the Monroe County Region?
4. Will the cost impacts for providing infrastructure (roads, water, etc.) for bringing out-of-region waste into the region exceed the cost savings provided by the additional landfill facility?

B. Application and Review Procedure

1. A copy of the Part 1 Solid Waste Disposal Facility Permit Application shall be submitted to the chairman of the Monroe County Solid Waste Regional Board prior to submittal of said document to the Division of Solid Waste Management. In addition to the DSWM Part 1 application, this submittal shall include the following:
 - a. Estimated total volume of the facility in tons of waste.
 - b. Proposed daily tonnage of the facility.
 - c. Proposed service area of the facility.
 - d. Map showing the location of the site suitable for advertisement.
 - e. Map showing current zoning of the site with a description of any special permits of re-zoning required and the status of same.
 - f. General site layout map showing proposed approximate landfill footprint, access roads, and solid waste management facilities proposed, etc.
 - g. Any preliminary site evaluation studies available.
 - h. An application fee will be established to cover the costs of the advertisement, public hearing, etc.

2. The Solid Waste Board Chairman will advertise the proposal in the local newspapers of the county in which the disposal facility is proposed as well as in the newspapers of any region which has a portion of their land mass within 5 miles of the proposed facility. This advertisement will include the following information:
 - a. General description of the proposed facility.
 - b. Road address and location relative to incorporated or unincorporated municipalities.
 - c. Map showing the location of the site.
 - d. Date, time, and location of public hearing (must be at least 28 days after advertisements runs).
 - e. Dates of public comment period.
 - f. Address for mailing of public comments.
3. The Planning Board Chairman will send copies of the application to each member of the Solid Waste Planning Board, county executive(s) in the region, and the Tennessee Division of Solid Waste Management.
4. The Solid Waste Planning Board will call a special meeting which will act as the public hearing.
5. The public hearing will be in presentation format. The applicant will present a 15 minute discussion of the proposed project. This will be followed by a fifteen minute report from a representative of the Solid Waste Planning Board. The public comment period will follow with comments limited to 5 minutes per person.
6. At the end of the public hearing, the Solid Waste Planning Board will schedule another special meeting to be a minimum of two weeks and a maximum of four weeks after the public hearing.
7. At the second special meeting the Solid Waste Planning Board will discuss the issue and then will vote to reject or not to reject the application.
8. The Solid Waste Planning Board may reject an application for a new solid waste disposal facility or incinerator or expansion of an existing solid waste disposal facility or incinerator within the region only upon determining that the application is inconsistent with the solid waste management plan adopted by the region and approved by the State Division of Solid Waste Assistance. The region shall document in writing the specific grounds on which the application is inconsistent with the plan. The vote will be decided by simple majority. In the event of a tie vote, any abstentions will be repolled for a vote. In the event that the vote remains tied, a new special meeting will be called within two weeks and the application will be voted on again. In the event that the outcome remains a tie, the application will automatically be rejected. The outcome will be provided to the owner and the Tennessee Division of Solid Waste Management.

9. Upon either the rejection or approval of the Solid Waste Board, the applicant shall proceed to the County Commission for final approval or denial. Any additional procedures that are needed for County Commission approval will be carried out by the applicant.
10. Approval of the application will allow the applicant to proceed with the full permitting process of the State. The State review process will determine the technical acceptability of the proposal. The Solid Waste Board's decision is based on siting and need for the facility.
11. Rejection of the proposal by the County Commission will result in the decision that the proposal is not consistent with the region's solid waste management plan; and, therefore, the facility cannot proceed through the State permitting process. Where a region rejects an application, the DSWM shall not issue the permit unless they find that the decision of the region is arbitrary and capricious and unsupported in the record developed before the region.
12. Appeal of final actions of the region, shall be taken by an aggrieved person within thirty (30) days to the Monroe County Chancery Court. The court shall exercise the same review as it would in a case arising under Tennessee Code Annotated, Title 4, Chapter 5. For the purposes of this section, an "aggrieved person" shall be limited to persons applying for permits, persons who own property or live within a three (3) mile radius of the facility or site that is proposed for permitting, or cities and counties in which the proposed facility is located.

II. Flow Control

Currently the Monroe County Regional Solid Waste Board does not see the need to suggest either an out of region ban or an intra-region flow control ordinance. It is understood that the plan does show the flow control avenues that will be taken in the ten year plan. If these flow control avenues are threatened in the future, such ordinance by the County Commission may need to be passed and enforced.

Appendix A

Legal Documentation and Organization of the Region

1. Certified Copy of the Resolution establishing the region.
2. Members and Officers of the Board.
 - a. Appointment Letters.
3. Role of the Board.
 - a. Mission Statement
 - b. Summary of Activities
4. Certification of Financial Accounting in Region.

Resolution

RESOLUTION NO. 1124-6

A RESOLUTION CREATING MONROE COUNTY'S MUNICIPAL SOLID WASTE PLANNING REGION.

WHEREAS, the adoption of the Subtitle D landfill regulations by the United States Environmental Protection Agency and companion regulations adopted by the Tennessee Solid Waste Control Board will impact on both the cost and method of disposal of municipal solid waste; and

WHEREAS, at the urging and support of a coalition of local government, environmental, commercial, and industrial leaders, the 97th Tennessee General Assembly enacted T.C.A. Section 68-211-801 et seq. titles "Solid Waste Management Act of 1991"; and

WHEREAS, with the view that better planning for solid waste will help control the additional costs that will be imposed by the new landfill regulations, help protect the environment, provide an improved solid waste management system, better utilize our natural resources, and promote the education of the citizens of Tennessee in the areas of solid waste management including the need for and desirability of reduction and minimization of solid waste, local governments in Tennessee supported and work for the passage of this Act; and

WHEREAS, one of the stated public policies of this Act is to institute and maintain a comprehensive, integrated, statewide program for solid waste management; and

WHEREAS, as per T.C.A. Section 68-211-811 the nine development districts in the State of Tennessee have completed a district needs assessment which are inventories of the solid waste systems in Tennessee; and

WHEREAS, Monroe County's Board of County Commissioners has given consideration to the needs assessment prepared by the East Tennessee development district; and

WHEREAS, T.C.A. Section 68-211-813, requires that counties in the State of Tennessee form municipal solid waste regions no later than December 12, 1992; and

WHEREAS, the Act's stated preference is the formation of multi-county regions with counties having the option of forming single or multi-county municipal solid waste regions; and

WHEREAS, the State of Tennessee will provide grant monies of varying amounts to single county, two county, and three or more county municipal solid waste regions to assist these regions in developing their municipal solid waste region plans; and

WHEREAS, the primary and prevailing purpose of the municipal solid waste regions are the preparation of municipal solid waste regional plans which among other requirements must identify how each region will reduce its solid waste disposal per capita by twenty-five percent (25%) by December 31, 1995, and a planned capacity assurance of it's disposal for a ten (10) year period; and

WHEREAS, the development of a municipal solid waste regional plan that results in the most cost effective and efficient management of municipal solid waste is in the best interest of the citizens of Monroe County.

NOW, THEREFORE BE IT RESOLVED, by the Board of County Commissioners of Monroe County, Tennessee, acting pursuant to T.C.A. Section 68-211-801 et seq., that there is hereby established a Municipal Solid Waste Region for and by Monroe County, Tennessee; and

BE IT FURTHER RESOLVED, that pursuant to T.C.A. Section 68-211-813(a)(2), that the Board of County Commissioners of Monroe County, Tennessee finds and determines that Monroe County shall be and shall constitute a single county municipal solid waste region due to the following; That the East Tennessee Development District needs assessment indicates that Monroe County should be a single county region.

BE IT FURTHER RESOLVED, that pursuant to T.C.A. Section 68-211-813(b)(1), a Municipal Solid Waste Region Board is hereby established to administer the activities of this Region; and

BE IT FURTHER RESOLVED, that this Municipal Solid Waste Region Board shall be composed of nine (9) members; and

BE IT FURTHER RESOLVED, that pursuant to T.C.A. Section 68-211-813(b)(1) Monroe County Board members shall be appointed by the County Executive and approved by this Board of County Commissioners and, due to the fact that the Sweetwater, Madisonville, Tellico and Vonore cities collect or provides disposal services through it's own initiative or by contract, the cities of Sweetwater, Madisonville, Tellico and Vonore shall have a Board member appointed by the Mayor of Sweetwater, Madisonville, Tellico and Vonore and approved by the City Council of Sweetwater, Madisonville, Tellico and Vonore; and

BE IT FURTHER RESOLVED, that members of the Board of the Municipal Solid Waste Region shall serve a six (6) year term except that one (1) member appointed by the County Executive shall have a four (4) year term, that four (4) members appointed by the County Executive shall have a six (6) year term, that one (1) member appointed by the Mayor of Sweetwater shall have a two (2) year term, that one (1) member appointed by the Mayor of Tellico Plains shall have a two (2) year term, that one (1) member appointed by the Mayor of Vonore shall have a two (2) year term, that one (1) member appointed by the Mayor of Madisonville shall have a four (4) year term; and

BE IT FURTHER RESOLVED, that this Municipal Solid Waste Region Board shall have all powers and duties as granted it by T.C.A. Section 68-211-813 et seq. and in addition, in the performance of its duty to produce a municipal solid waste region plan, it shall be empowered to utilize existing Monroe County governmental personnel, to employ or contract with persons, private consulting firms, and/or governmental, quasi-governmental, and public entities and agencies and to utilize Monroe County's services, facilities and records in completing this task; and

BE IT FURTHER RESOLVED, that at the Municipal Solid Waste Region's Board's initial organizational meeting it shall select from its members a chair, vice-chair, and

secretary and shall cause the establishment of a municipal solid waste advisory committee whose membership shall be chosen by the Board and whose duties are to assist and advise the Board; and

BE IT FURTHER RESOLVED, that the Municipal Solid Waste Region Board, in the furtherance of its duty to produce a municipal solid waste region plan, is authorized to apply for and receive funds from the State of Tennessee, the federal government, Monroe County, the cities of Sweetwater, Madisonville, Tellico Plains, Vonore, and to apply for and receive donations and grants from private corporations and foundations; and

BE IT FURTHER RESOLVED, that Monroe County shall receive, disburse, and act as the fiscal agent for the administration of the funds of the Municipal Solid Waste Region and the Region's Board; and

BE IT FURTHER RESOLVED, that upon the passage of this Resolution and at no later date than December 31, 1992, the County Clerk of Monroe County shall transmit a copy of this Resolution to the Tennessee State Planning Office.

RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MONROE COUNTY, TENNESSEE, THIS 24th DAY OF NOVEMBER, 1992, THE WELFARE OF THE CITIZENS OF MONROE COUNTY REQUIRING IT.

Robert E Lee

Robert Lee, Chairman

J. Allan Watson

J. Allan Watson, County Ex

ATTEST:

Brian Tallent

Brian Tallent, County Clerk

**Members
and
Officers
of
Regional
Board**

REGION OF MONROE COUNTY SOLID WASTE BOARD MEMBERS

Member	Representation	Terms of Office
1. Brian Tallent	County (Chair)	6
2. David Cleveland	County (Vice-Chair)	6
3. Joe Helms	County (Secretary)	6
4. R.W. West	County	4
5. Ralph Teague	County	6
6. Glen Moser	Madisonville	4
7. Joe Courtney	Sweetwater	2
8. Dwayne Cardin	Tellico Plains	2
9. Betty Sparks	Vonore	2

Meetings were held the 3rd Thursday of each month at 7:00 pm at the Monroe County Courthouse.

Appointment Letters

City Meeting 12-08-92

4

Meeting called to order at 7:00pm by Mayor Marcus Kennedy, Minutes of the previous were read Alderman Alvin Thomas motioned to accept the minutes as read and Alderman Betty Sparks, seconded. City Recorder gave the financial report.

Attorney Charles Ridenour attending meeting to discuss and answer any questions on the Community Health Agency, a program designed to make health care more accessible to the working poor in our County. The program is supported by physicians, dentist and pharmacies that are willing to treat patients on a sliding fee scale based on their ability to pay and to furnish a pharmacy card with a minimal rate of \$3.91 per prescription. Due to a cutback in state funds for the next fiscal year there is a need for more local monies to help this segment of our society. After discussion the board agreed to donate \$1,000.00 after February of 1993. Alin Thomas 1st and Betty Sparks 2nd.
A Toll free number is to be given to individuals who could use these services:
1-800-828-4528

Ann Hastings was present representing Barge Waggoner, Sumner and Cannon. She brought with her some HOME applications for those interested to fill out. She said if the Town is approved for the home project there will be some meetings to work out the details of how the monies will be allocated and any payback procedures. Outstanding bills were read and Betty motioned to pay bills and Alvin 2nd. Old Business: Mark said that the beer board has issued a beer permit to Bo Henreys Shell Station on 11-23-92.

New Business:

Mayor Kennedy told board that we need to set up a price for the use of the FAX machine to the public. After discussion it was decided to table until prices by other firms have been ck'ed out. In the mean time charge \$2.00 per sheet. (if local \$2.00 first sheet \$1.00 thereafter.)
Mayor Kennedy motioned to give all employees a \$50.00 Christmas bonus on pay period of 12-10-92. Alvin 1st and Betty 2nd.

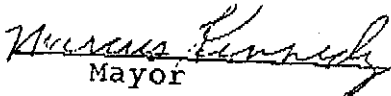
Mayor Kennedy said the Christmas parade sponsored by the Volunteer Fire Dept. will be December 12th at 9:00AM.

Mayor Kennedy said the Town will be accepting bids on Dec. 18th at 10.00am to resurface 3,500 L Feet of City Streets.

Mayor Kennedy request approval from board to purchase two new police cars from Ted Russel at State Bid Price of \$28,318.37 for two 1992 Crown Victorias. This is a lease purchase plan with 24 payments of \$1179.95 per month and then would purchase cars for \$1.00. Each car has a 3 year manufacture warranty except for tires and oil changes. Betty Sparks motioned to purchase cars and Alvin Thomas 2nd.

Mayor Kennedy appointed Betty Sparks to the Solid Waste Management committee.

With no further business to discuss Mayor Kennedy motioned to adjourn at 8:40 pm Alvin 1st and Betty 2nd.


Mayor


City Recorder

City of Sweetwater

P.O. Box 267, Monroe St., 37874

BILLY R. RIDENOUR, Mayor
CHARLOTTE W. STARNES, Recorder
J. LEWIS KINNARD, City Attorney

(615) 337-6979

ALVIN FOX, Vice Mayor-Recreation
ROBERT S. BETTIS, JR., Police
WALTER C. (Neel) RABY, Streets
BILLY G. WEST, Fire, Finance
JOHN E. COURTNEY, Sanitation

June 13, 1994

Brian Tallent
105 College Street
Madisonville, TN 37354

Dear Brian:

Commissioner John Courtney has resigned from Office. He has been representing the City of Sweetwater on the solid waste committee. Commissioner Alvin Fox has agreed to serve temporarily until a replacement is elected by the Sweetwater Board of Commissioners. Therefore I am appointing Commissioner Fox to serve as a replacement for Mr. Courtney on your committee.

Sincerely,



Billy R. Ridenour, Mayor

BRR/sbc
cc: Alan Watson

November 2, 1992

problem and that if he comes back to work after being released from a program that he would be under a 90 day probationary period and that if there are any violations during the probationary period he will be terminated from employment. He must bring proof in writing of his participation in an approved program and he shall be required to satisfactorily complete the program before he will be put back to work. It was finally agreed that Project Help, Inc. which has an alcohol/substance abuse program locally would be able to help him.

Commissioner Fox moved that Ordinance No. 649 entitled AN ORDINANCE TO AMEND THE ZONING MAP OF THE CITY OF SWEETWATER, TENNESSEE be passed on first reading. Motion was seconded by Commissioner Bettis and carried. This ordinance would rezone the Hospital property from P-1 to C2 and was recommended by the Sweetwater Planning Commission.

Commissioner Raby moved that the Board accept Mayor Ridenour's appointment of John E. Courtney as Sweetwater's representative to the regional board to be established by Monroe County for the purpose of solid waste regional planning. Motion was seconded by Commissioner Bettis and carried.

Commissioner West moved the meeting adjourn at 9:00 P.M. to meet again on Monday, November 16, 1992 at 7:00 P.M. Motion was seconded by Commissioner Bettis and carried.

This the 2nd day of November, 1992.

Charlotte W. Stearnes

Recorder

Approved:

Billy R. Ridenour
Mayor

November 16, 1992

The Mayor and Board of Commissioners of the City of Sweetwater, Tennessee met in adjourned session on Monday, November 16, 1992 at 7:00 P.M. at the City Hall.

Mayor Billy R. Ridenour presided over the meeting with Commissioners

Financial Accounting Letters

Ordinance # 06694

AN ORDINANCE AMENDING THE TOWN OF VONORE'S ORDINANCE ADOPTING A BUDGET AND ESTABLISHING A PROPERTY TAX RATE FOR THE FISCAL YEAR JULY 1, 1994 THROUGH JUNE 30, 1995.

Be it ordained by the Town of Vonore that ordinance number 06694 adopting a budget and establishing a tax rate be amended, as follows:

SECTION

1. Total revenues and available funds and total expenditures
2. Appropriation not to be exceeded.
3. Line-item financial plan required.
4. Tax rate at 50¢ per \$100.00 of assessed value.

(a) Total revenues & available funds

General Fund	689,248.00
<u>Sanitation Fund</u>	<u>26,915.00</u>
State Street Aid Fund	<u>19,300.00</u>
Sewer Fund	<u>24,550.00</u>
Ind. Park Fund	<u>90,000.00</u>

Total 850,013.00

(b) Expenditures

General Fund	600,698.00
<u>Sanitation Fund</u>	<u>26,915.00</u>
State Street Aid Fund	<u>13,800.00</u>
Sewer fund	<u>24,550.00</u>
Ind. Park Fund	<u>90,000.00</u>

Total 755,963.00

Section 2. Appropriations not to be exceeded. No expenditure listed above in the budget may be exceeded without appropriation by ordinance action to amend the budget. Such action shall fully describe all changes proposed to the budget and shall include the sources of revenue to finance the proposed expenditures.

Section 3. Line-item financial plan required. A detailed line-item financial plan shall be prepared in support of the budget. The financial plan shall be used as guidance and generally followed in implementing the budget.

Section 4. Property tax rate .50¢ per \$100 assessment for the purpose of funding municipal services.

This ordinance shall take effect immediately upon final passage the public welfare requiring it.

1st. Reading 6-14-94
2nd. Reading 6-28-94

Mayor: Marion L. Reynolds
Recorder: Adams Thomas

SANITATION FUND

REVENUE		PROJECTED 93-94	PROPOSED 94-94
14410	Refuse collection	25,000.00	25,000.00
36961	General Fund Appro.	213.00	
	Interest	92.00	150.00
	Beginning Avail Fd.	25,305.00	1,765.00
Total Available Funds		25,305.00	26,915.00
43200			
APPROPRIATIONS SANITATION		PROJECTED 93-94	PROPOSED 94-95
110	Salaries	10,100.00	12,605.00
120	Wages Temporary		
134	Christmas Bonus	50.00	50.00
251	Medical		60.00
295	Landfill Disposal	7,850.00	9,000.00
320	Operating Supplies	50.00	50.00
326	Uniforms	260.00	300.00
331	Gas, Oil, Etc.	2,137.00	2,500.00
332	Vehicle Parts-Repair	200.00	1,500.00
333	Tires		700.00
339	Miscellaneous	81.00	100.00
900	Capitol Outlay		
Total Sanitation Fund		20,728.00	26,915.00

To Mitch Loomis
E.T.D.D.

FROM: Sarah Thomas
Town of Vonore
884-6211
FAY - 884-6839

**Monroe County
Department of Finance**

R. Brian Tallent
Director

J.P. Kennedy Building
103 College Street
Madisonville, TN 37354

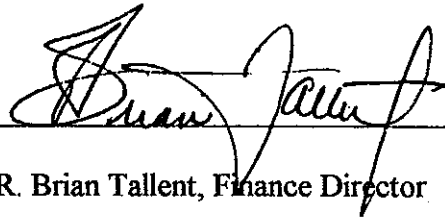
(615) 442-9383
(615) 442-2398
FAX: (615) 442-1389

Bonnell H. Cooper
Assistant Director

June 30, 1994

CERTIFICATION

I, R. Brian Tallent, Director of Finance for Monroe County, Tennessee do hereby certify that Monroe County has operated with a Sanitation Fund for the fiscal year 1993/1994. This fund is operated as a special revenue fund and does not receive any property tax revenue.



R. Brian Tallent, Finance Director



TOWN OF MADISONVILLE

301 COLLEGE STREET

MADISONVILLE, TENNESSEE 37354

PHONE (615) 442-9416

FAX: (615) 442-6321

FRANCES H. MAXWELL - Mayor

TED CAGLE - City Recorder & Judge

WILLARD LAMBERT - Chief of Police 442-4761

ALDERMEN

WAYNE ATKINS

MARVIN HUNT

ALFRED McCLENDON

AUSTIN McDANIEL

GLENN MOSER

DONNIE CHAMBERS - City Foreman

Maintenance Dept. 442-4591

RON PEARSON - Codes Officer 442-5655

August 8, 1994

C E R T I F I C A T I O N

I, Gary T. Cagle, Recorder of the City of Madisonville, Tennessee do hereby certify that the City of Madisonville has operated with a Sanitation Fund since the beginning of fiscal year 1993. Witness my hand and official seal of the City of Madisonville, Tennessee, this the 8th day of August, 1994.

City Recorder

City of Sweetwater

P.O. Box 267, Monroe St., 37874

BILLY R. RIDENOUR, Mayor
CHARLOTTE W. STARNES, Recorder
J. LEWIS KINNARD, City Attorney

(615) 337-6979

ALVIN FOX, Vice Mayor-Recreation
ROBERT S. BETTIS, JR., Police
WALTER C. (Neal) RABY, Streets
BILLY G. WEST, Fire, Finance
JOHN E. COURTNEY, Sanitation

June 30, 1994

CERTIFICATION

I, Charlotte W. Starnes, duly appointed and Recorder of the City of Sweetwater, Tennessee do hereby certify that the City of Sweetwater has operated with a Sanitation Fund since the beginning of fiscal year 1993. Witness my hand and the official seal of the City of Sweetwater, Tennessee, this the 30th day of June, 1994.

Charlotte W. Starnes

City Recorder

PUBLIC NOTICE

The City of Sweetwater, Tennessee, hereby provides certain financial information for the 1994-1995 fiscal year budget in accordance with provisions of Chapter 484, Public Law of 1991, as amended.

CITY OF SWEETWATER, TENNESSEE
 PROPOSED BUDGET
 FOR THE FISCAL YEAR ENDING JUNE 30, 1995

GENERAL FUND	Actual 1992-1993	Estimated 1993-1994	Proposed 1994-1995
Estimated Revenues			
Local Taxes	1,708,361	1,698,500	1,772,500
State of Tenn.	386,257	330,337	358,903
Other Sources	<u>184,420</u>	<u>132,831</u>	<u>158,930</u>
Total Estimated Receipts	2,279,038	2,161,668	2,290,333
Estimated Expenditures			
Salaries	1,130,893	1,089,412	1,103,212
Other Costs	<u>758,183</u>	<u>779,382</u>	<u>881,201</u>
Total Estimated Expenses	1,889,076	1,868,794	1,984,413
Operating Transfers Out	371,135	379,652	406,222
Estimated Beginning Fund Balance	1,728,109	1,746,936	1,660,158
Estimated Ending Fund Balance	1,746,936	1,660,158	1,559,856
Employee Positions	55	51	51
STATE STREET AID FUND			
Estimated Revenues			
State of Tenn.	127,320	128,877	126,350
Estimated Expenditures			
Salaries	0	0	0
Other Costs	183,035	202,877	169,850
Estimated Beginning Fund Balance	176,589	120,874	46,874
Estimated Ending Fund Balance	120,874	46,874	3,374
Employee Positions	0	0	0
SANITATION FUND			
Estimated Revenues			
Op. Transfer from Gen. Fund	189,053	195,530	221,100
Estimated Expenses	189,053	195,530	221,100
Estimated beginning fund balance	0	0	0
Estimated ending fund balance	0	0	0

Role of the Board

Mission Statement

The goal of the Monroe County Regional Solid Waste Board is to analyze the existing solid waste management system in the region and develop a 10 year plan for the region of Monroe County. It is the intent of the Solid Waste Board to develop a plan that not only meets all State requirements, but is also a plan that financially can be handled by the region of Monroe County. The Solid Waste Board will attempt to get input from the public and the County Commission in order to develop a plan that meets their desires and needs for the upcoming 10 year cycle. The following table represents a implementation schedule for the development of the plan:

Components:	Completion Dates:
Analyze Existing Solid Waste System:	February, 1993
Develop Waste Reduction Plan:	April, 1993
Develop Disposal Plan:	July, 1993
Develop Recycling Plan:	August, 1993
Develop Collection Plan:	August, 1993
Develop HHW Plan:	May, 1994
Finalize and Adopt Solid Waste Management Plan:	June, 1994
Hold Public Hearing:	May, 1994
Present Solid Waste Plan to Municipal Planning Boards:	April, 1994
Present Solid Waste Plan to County Commission for Approval:	May, 1994
Submit Solid Waste Plan to State:	July, 1994

Summary of Activities

A. Finance Committee

Goal: Establish a plan for regional solid waste management expenditures for next 10 years utilizing full-cost accounting methods.

Board Member(s): Brian Tallent, Glenn Moser, John Courtney

Objectives	Tasks	Completion
Prepare detailed financial statement for all solid waste expenditures and revenues for County and Cities in FY 93.	<ol style="list-style-type: none"> 1. Collect information from County and Cities on solid waste expenditures and revenues. 2. Identify sources for existing solid waste budget(s). 3. Assess and evaluate expenditures and revenues for all solid waste services in FY 93 for Cities and County. 4. Combine all information into regional summary. 	May-Aug, 1993
Plan for financing capital improvements in Region.	Determine potential capital improvement costs and integrate into budget plan.	Sept-Oct, 1993
Prepare 10 year budget to implement Regional Plan for planned solid waste services: collection, recycling, waste reduction, disposal, public education, problem wastes, etc.	<ol style="list-style-type: none"> 1. Receive options chosen for each solid waste component using cost analysis. 2. Review cost analysis. 3. Identify sources of revenue to support planned solid waste management system. 4. Integrate 10 year budgets for all planned solid waste services. 	Dec, 1993

B. Education Committee

Goal: Establish a plan for regional solid waste education program aimed at businesses, industries, schools, and citizens which addresses recycling, waste reduction, collection and other solid waste management options and costs.

Board Member(s): Dewayne Cardin, Joe Helms & Betty Sparks

Objectives	Tasks	Completion
Identify existing solid waste educational programs in Region and determine strengths and weaknesses.	<ol style="list-style-type: none">1. Evaluate needs assessment data.2. Collect additional data on existing programs in Region.3. Collect data on litter and illegal dumping.4. Determine State criteria for solid waste education program.	May-July, 1993
Define regional needs for public information/education program to support solid waste management plan.	<ol style="list-style-type: none">1. Review analysis from Chapters II and III in guidelines document.2. Gather input on needs from additional sources: schools, media, public, etc.3. Identify strategies to address Regional needs.	May-July, 1993
Estimate program costs.	<ol style="list-style-type: none">1. Identify existing and potential revenues for program.2. Cost analysis of program options.	Aug-Oct, 1993
Establish public information/education program.	<ol style="list-style-type: none">1. Utilize existing groups to plan education program (schools, private sector, media, etc.)2. Prepare funding plan.	Jan, 1994

C. Disposal Committee

Goal: Establish a plan for 10 year disposal capacity assurance for the Region.

Board Member(s): Ralph Teague, David Cleveland & R. W. West

Objectives	Tasks	Completion
Identify existing disposal system and determine strengths and weaknesses.	<ol style="list-style-type: none">1. Review data on disposal capacity and facilities in needs assessment.2. Review disposal facility plan prepared by engineer.3. Update significant changes if necessary.	May-July, 1993
Determine projected disposal capacity for Region.	<ol style="list-style-type: none">1. From analysis in Chapters II and III of guidelines document compare disposal demand with current and planned disposal supply.2. Determine shortfall/surplus in disposal capacity.3. Plan capacity assurance for 10 years.	Aug-Oct, 1993
Develop plan for banning waste tires, batteries, HHW and used oil from landfill in Region.	<ol style="list-style-type: none">1. Identify existing local laws or ordinances to support bans.2. Make recommendations to County Commission.	Jan-March, 1994
Prepare 10 year operation and maintenance budget.	Cost Analysis.	April, 1994

D. Collection Committee

Goal: Establish a plan to provide accessible collection to 90% of all residents, one or more sites for collection of recyclable materials and provisions for handling problem wastes in the Region.

Board Member: Ralph Teague, Glenn Moser & John Courtney

Objectives	Tasks	Completion
Determine service areas and program strengths and weaknesses in Region.	<ol style="list-style-type: none">1. Evaluate needs assessment data.2. Collect additional data on service area (hauler survey, mapping, etc.)3. Compare existing collection system in Region to convenience center Rule 1200-1-7 and identify unserved areas and program needs.	June, 1993
Define Regional needs to establish access of household collection to 90% of all residents in Region.	<ol style="list-style-type: none">1. Review existing service areas and program analysis.2. Identify strategies to achieve program needs and formulate alternatives.3. Identify costs and select alternatives.	Sept, 1993
Develop problem waste collection program: HHW, waste oil and auto fluids, waste tire, batteries and litter.	<ol style="list-style-type: none">1. Collect data on existing handling practices in Region for problem wastes.2. Identify options to handle problem wastes and formulate alternatives.3. Identify costs and select alternatives.	March, 1994
Establish plan for collection of recyclable materials.	<ol style="list-style-type: none">1. Evaluate needs assessment data.2. Collect additional data on current public and private recycling efforts.3. Identify strategies to enhance recycling in Region and alternatives.4. Identify costs and select alternatives.	March, 1994
Combine selected alternatives into comprehensive collection plan.	Prepare comprehensive collection plan.	April, 1994

E. Waste Reduction Committee

Goal: Evaluate existing waste stream characteristics and waste projection in Region and develop future waste flow patterns. Develop a plan to reduce by 25% per capita by December 1995, the amount of solid waste disposed in the region.

Board Member(s): David Cleveland, R.W.West & Shane Burris

Objectives	Tasks	Completion
Determine existing waste stream characteristics for Region.	<ol style="list-style-type: none">1. Evaluate needs assessment data.2. Collect additional data.3. Assess and evaluate waste stream data.	June, 1993
Determine waste projections and disposal capacity needs for next 10 years.	<ol style="list-style-type: none">1. Review needs assessment data.2. Update information.3. Compute waste projections.4. Finalize information.—	July, 1993
Identify existing waste reduction activities in Region and determine strengths and weaknesses.	<ol style="list-style-type: none">1. Evaluate needs assessment data.2. Collect additional data.3. Compare existing reduction system in Region to waste disposal reduction goal Rule 1200 -1-7.4. Identify program needs.	Sept, 1993
Define Regional needs to achieve waste reduction goal.	<ol style="list-style-type: none">1. Review waste stream, projections and reduction data.2. Identify strategies to address 25% reduction goal.3. Allocate responsibility among local governments and private sector for waste reduction.	Jan, 1994
Develop future waste flow patterns for the region.	<ol style="list-style-type: none">1. Integrate waste reduction methods into institutional structure.2. Identify staff, training and budget needs.	March, 1994

Appendix C

Public Participation Activities

- 1. Summary of workshops, public information meetings, informational and educational activities.**
- 2. An attendance list, and summary of Public Hearing.**

Minutes of Meetings

Solid Waste Management Meeting
December 20, 1992

Members present

John Cortney-Sweetwater
Glenn Moser Madisonville
Betty Sparks-Vonore
David Cleveland
Joe Helms
R.W. West
Brian Tallent
Ralph Teague

Others

Allan Watson
Sandra Ray

The Solid Waste Committee must be composed of the following:

5 Members for the County: David Cleveland
Joe Helms
Brian Tallent
R.W. West
Ralph Teague

4 members from the cities: Glenn Moser-City of Madisonville
Dwayne Cardin-Tellico Plains
John Cortney-City of Sweetwater
Betty Sparks-Vonore

County Executive Allan Watson called the meeting to order and opened the floor for nomination for Chairman. R.W. West nominated Brian Tallent. SECONDED Glenn Moser. David Cleveland moved that he be nominated by acclamation. SECONDED Betty Sparks.

Allan Watson opened the floor for nomination for Vice Chairman. Betty Sparks nominated David Cleveland. SECONDED Glenn Moser. R.W. West moved to pass the nomination by acclamation.

David Cleveland nominated Sandra Ray for Secretary.

Chris Garkvoich East Tennessee Development told the committee about a Grant of 20,000 that we can apply for from the State. This grant can be used for recycling equipment. It was discussed that the County could use that money to buy a baler and or a fork lift and that the baler might be located at the Vocational School.

A MOTION was made by R.W. West to apply for the Grant. SECONDED David Cleveland and passed.

Meeting was adjourned.

SOLID WASTE MANAGEMENT MEETING

January 21, 1993

7:00 P.M.

MEMBERS PRESENT

David Cleveland
John Courtney
Glenn Moser
Brian Tallent
Dewayne Cardin
Ralph Teague

MEMBERS ABSENT

Betty Sparks
R.W. West
Joe Helms

OTHERS

Chris Garkvoich
Sandy Ray
Jack Flint
Louise Rutherford

Chairman Brian Tallent called to meeting to order and made a MOTION to approve the minutes that had been mail to the members. SECONDED Dewayne Cardin and passed.

Flint Engineering presented a proposal for their company to be the planner for the Solid Waste Regional Board, their proposal was \$15,000.00

Chris Garkovich, of East Tennessee Development District, gave a proposal of \$12,500.00 leaving \$2500.00 of the grant money to be used for things that the Board might need, such as office supplies and travel.

A MOTION was made by Dewayne Cardin to accept ETDD as the planner to assist the Regional Board. SECONDED Glenn Moser and passed.

The Chairman set the Solid Waste Management Meeting to be the third Thursday of each month at 7:00P.M.

Allan Watson went on record as being apposed to any outside waste being brought into Monroe County.

Meeting adjourned.

Solid Waste
February 18, 1993
7:00 P.M.

MEMBERS PRESENT

Joe Helms
Brian Tallent
John Courtney
Ralph Teague
Dewayne Cardin
David Cleveland
Glenn Moser
R. W. West
Sandra Ray

MEMBERS ABSENT

Betty Sparks

OTHERS

Shane Burris
Lorie Chambers
Chris Garkvoich
Wil Willoughby

Chairman Brian Tallent called the meeting to order. Minutes were approved.

The Contract with East Tennessee Development was discussed.

Chris Garkovich of ETDD told the committee that they should break down into sub-committees to do outside work in between regular monthly meetings.

Committees are as follows:

Advisory Committee: Shane Burris
Sandra Ray

Finance Committee: City representatives
Brian Tallent

Education Committee: Joe Helms
Dewayne Cardin

Collection Committee: Ralph Teague
Sandra Ray

Waste Generation: Shane Burris

Disposal Committee: Ralph Teague

Meeting was adjourned.

SOLID WASTE
7:00 P.M.
March 25, 1993

MEMBERS PRESENT

Joe Helms
David Cleveland
Glenn Moser
Brian Tallent
Ralph Teague
John Courtney

MEMBERS ABSENT

R.W. West
Betty Sparks
Dewayne Cardin

OTHERS

Chris Garkvoich
Jim Reese

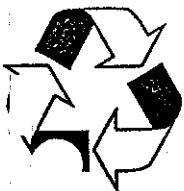
Chairman Brian Tallent called the meeting to order. Minutes from the previous meeting were approved.

The Chairman presented names to David Cleveland for Advisory Committee:
Wayne Corington (by Ralph Teague)
Gary Kimsey (by David Cleveland)
Shane Burris (by Brian Tallent)
Larry Hicks (by Brian Tallent)
Allan Watson (by Brian Tallent)
Marsha Standridge (by Joe Helms)
Rex Yates (by R.W. West)
Bette Tedford (Dewayne Cardin)

Chris Garkvoich with ETDD spoke to the group. Chris will formulate a survey to be given to the private haulers by the Collections Committee.

Shane Burris the Industrial Recruiter will mail survey to Industries.

Meeting was adjourned.



**MONROE COUNTY
SOLID WASTE REGIONAL BOARD
MADISONVILLE, TENNESSEE**

*City of Madisonville, Glenn Moser
City of Vonore, Betty Sparks
Monroe County, Ralph Teague*

*Monroe County, Joe Helms
Monroe County, David Cleveland
Monroe County, Brian Tallent*

*City of Sweetwater, John Courtney
City of Tellico Plains, Dewayne Cardin
Monroe County, R.W. West*

**ADVISORY
COMMITTEE
MEMBERS:**

**LARRY HICKS
MARSHA STANDRIDGE
SHANE BURRIS**

**WAYNE COVINGTON
J. ALLAN WATSON
DONNIE CHAMBERS**

**REX YATES
GARY KIMSEY
BETTE TEDFORD**

**CONSULTANT
TO THE BOARD:
CHRIS GARKOVICH**

Solid Waste
April 15, 1993

MEMBERS PRESENT

Betty Sparks
Ralph Teague
David Cleveland
Joe Helms
Sandra Ray

MEMBERS ABSENT

Dewayne Cardin
Brian Tallent
R.W. West
John Courtney
Glenn Moser

OTHERS

Shane Burris
Chris Garkvoich

Vice Chairman David Cleveland called the meeting to order and minutes were approved.

Ralph Teague reported to the committee that the private haulers had given him a figure of 1800 households they service. He feels that there are probably 11,000 household to be serviced in the county.

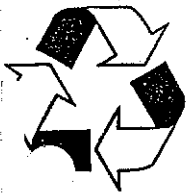
Chris Garkvoich gave a handout on unmanaged waste with the following formula: 1991 county population X 6lbs per person per day X 365 divided by 2000lbs, to get the amount of unmanaged waste.

Joe Helms reported to the committee that Vonore High School had an Ecology Club.

There will a meeting of the Educational Committee on April 26.

The Disposal Committee will meet on May 7 at 10:00 A.M. at the Vocational School.





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SOLID WASTE REGIONAL BOARD
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Monroe County, Ralph Teague*

*Monroe County, Joe Helms
Monroe County, David Cleveland
Monroe County, Brian Tallent*

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City of Tellico Plains, Dewayne Cardin
Monroe County, R.W. West*

**ADVISORY
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MEMBERS:**

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J. ALLAN WATSON
DONNIE CHAMBERS**

**REX YATES
GARY KIMSEY
BETTE TEDFORD**

**CONSULTANT
TO THE BOARD:
CHRIS GARKOVICH**

SOLID WASTE
May 20, 1993
7:00 P.M.

Members Present

Betty Sparks
Ralph Teague
R.W. West
Glenn Moser
John Courtney
Brian Tallent
Dwayne Cardin

Members absent

Others
Chris Garkvoich
Press
Sandra Ray

Chairman Brian Tallent called the meeting to order. Minutes were approved.

Chris Garkvoich told the members about a called workshop meeting on May 17 with County Commission.

Chris told the Committee about the alternatives to a single region there are four options 1.Own/operate 2.Sell 3.Own/contract out 4.Class IV/export

The committee discussed taking bids on option 2 & 3. They also talked about sharing with another county. If option #3 is chosen a contracted company has the expertise to run.

#2 some companies have talked about buying the landfill and paying royalties these companies would also do pickup and guarantee their rates for 10 to 20 years. The one thing about this plan that made the committee feel uneasy was that the county would loose control of the landfill.

Commissioner David Cleveland told the committee that all the facts and the cost of option #1 must be known in order for the committee to know which option to take.

Chris appointed a committee made of up of city members.

A MOTION was made by Dwayne Cardin to have Chris get together specs for options 3 and 4 . SECONDED David Cleveland and approved.



SOLID WASTE MEETING
June 17, 1993
7:00 P.M.

MEMBERS PRESENT

Ralph Teague
Joe Helms
David Cleveland
R. W. West
Bob Tallent
Glenn Moser
John Courtney

MEMBERS ABSENT

Dwayne Cardin
Brian Tallent

OTHERS

Allan Watson
Sandra Ray
Newspaper
Haskell Allen

SOLID WASTE
August 19, 1993

MEMBERS PRESENT

Brian Tallent
John Courtney
Dwayne Cardin
David Cleveland

MEMBERS ABSENT

Glenn Moser
Betty Sparks
Ralph Teague
R.W. West
Joe Helms

OTHERS

Chris Garkvoich
Vincent Gauthier
Greg Aultman
David Spear
C.M. Boggs
Bette Tedford
Sandra Ray

No Meeting. No Quorum was present.

Much discussion about possibility of how to operate landfill.

SOLID WASTE COMMITTEE MEETING
September 16, 1993

MEMBERS PRESENT

David Cleveland
Dwayne Cardin
Joe Helms

MEMBERS ABSENT

Brian Tallent
R.W. West
Glenn Moser
John Courtney
Ralph Teague
Betty Sparks

OTHERS

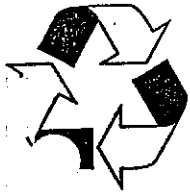
Chris Garkvoick
Haskell Allen
Bette Tedford
Shane Burris

There were no minutes from the last meeting because there was no quorum. No quorum was present at this meeting but the members present decided to have the specifications sent out and open bids on October 28, 1993.

Chris Garkvoich of ETDD presented the committee with a fact sheet of existing solid waste collection system in Monroe County, also six (6) options for the County to consider for solid waste collection. These options were narrowed down to three (3). They were as follows:

- I. To combine option 1 and option 4, to establish one (1) convenience center and construct and operate a transfer station.
- III To establish four convenience centers in the County
- II To provide household collection services for some 4,000 households either directly or by contract with a private hauler.

Keep America Beautiful with host a lunch meeting on October 5, 1993 at 11:30 a.m. at the Alumni House on the Hiwassee College Campus.



**MONROE COUNTY
SOLID WASTE REGIONAL BOARD
MADISONVILLE, TENNESSEE**

*City of Madisonville, Glenn Moser
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Monroe County, Ralph Teague*

*Monroe County, Joe Helms
Monroe County, David Cleveland
Monroe County, Brian Tallent*

*City of Sweetwater, John Courtney
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**ADVISORY
COMMITTEE
MEMBERS:**

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SHANE BURRIS**

**WAYNE COVINGTON
J. ALLAN WATSON
DONNIE CHAMBERS**

**REX YATES
GARY KIMSEY
BETTE TEDFORD**

**CONSULTANT
TO THE BOARD:
CHRIS GARKOVICH**

SOLID WASTE
October 28, 1993

PRESENT

David Cleveland
John Courtney
Ralph Teague
DeWayne Cardin
R. W. West
Glenn Moser
Brian Tallent

ABSENT

Joe Helms

OTHERS

Bette Teadford
Lori Chambers
Haskell Allen
Chris Garkvoich

Chairman Brian Tallent called the meeting to order.

Chris Garkvoich of EIDD spoke to the Board and passed out a Solid Waste Regional Plan for the Board to review.

A Committee to review draft of plan was appointed, member areas as follows:

Glen Moser
Joe Helms
Ralph Teague
Allan Watson

A Committee to Evaluate Bids was appointed members are as follows:

David Cleveland
DeWayne Cardin
Bette Teadford
Brian Tallent

Vince Gauthier spoke to the Board about education on solid waste.

Request for proposals were opened they were as follows:

BFI presented a proposal to - run a transfer station
to do collections
Waste Management a proposal to - do collections
run a transfer station
Diversified Systems proposed to - operate transfer station

The proposals will be in Chairman Brian Tallent's office and the subcommittee will meet in 10 days to oversee bids.

Meeting was adjourned.



SOLID WASTE
October 28, 1993

PRESENT

David Cleveland
John Courtney
Ralph Teague
DeWayne Cardin
R. W. West
Glenn Moser
Brian Tallent

ABSENT

Joe Helms

OTHERS

Bette Teadford
Lori Chambers
Haskell Allen
Chris Garkvoich

Chairman Brian Tallent called the meeting to order.

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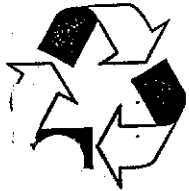
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SOLID WASTE REGIONAL BOARD
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*City of Madisonville, Glenn Moser
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COMMITTEE
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J. ALLAN WATSON
DONNIE CHAMBERS**

**REX YATES
GARY KIMSEY
BETTE TEDFORD**

**CONSULTANT
TO THE BOARD:
CHRIS GARKOVICH**

**Solid Waste Regional Planning Board
February 17, 1994**

Members Present
Johns Courtney
Glen Moser
Brian Tallent
Joe Helms
David Cleveland
Dwayne Cardin

Members Absent
R.W. West
Betty Sparks
Ralph Teague

Others
Mitch Loomis
Lori Chambers
Sandra Ray
Randell Clunie
Jeff McNelley
Bob Tallent

Chairman Brain Tallent called the meeting to order.

Chairman Tallent informed the board that the revenue at the landfill is down by \$1400.00 this last month. He also told the Board that Waste Management is hauling some of Carlex waste to Chestnut Hill. If others do the same we could not even operate a transfer station. He also said that Waste Management has offered a contract to others. The county has no legal way to stop them. We might pass a resolution or pass an ordinance to try to prevent that from happening.

It was discussed by Mitch Loomis of ETDD that we should have a transfer station and 3 convenient centers. Members suggested that we could have a super center for recycling and transfer located at the maternity center property and then have 3 transfer stations. Perhaps one at Mt. Harmony, one at Rockville and one at Ballplay.

Chairman Tallent suggested that we talk to BFI and get a cost on convenient centers and transfer station.

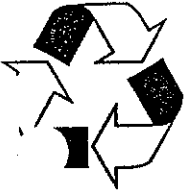
It was suggested that the County look at the contract again.

Dewayne Cardin made a MOTION to build 3 convenient centers and one transfer station adequate to handle the waste stream of Monroe County. SECONDED David Cleveland. PASSED.

Chairman Tallent will ask BFI to be at the next meeting to give the Board prices on the different options.

MOTION was made to adjourn.





**MONROE COUNTY
SOLID WASTE REGIONAL BOARD
MADISONVILLE, TENNESSEE**

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*Monroe County, Joe Helms
Monroe County, David Cleveland
Monroe County, Brian Tallent*

*City of Sweetwater, John Courtney
City of Tellico Plains, Dewayne Cardin
Monroe County, R.W. West*

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J. ALLAN WATSON
DONNIE CHAMBERS**

**REX YATES
GARY KIMSEY
BETTE TEDFORD**

**CONSULTANT
TO THE BOARD:
CHRIS GARKOVICH**

Solid Waste
March 17, 1994

Members Present
John Courtney
Joe Helms
Dewayne Cardin
Ralph Teague
Glenn Moser
Brian Tallent

Members Absent
R.W. West
Betty Sparks
David Cleveland

Others
Sandra Ray
Lori Chambers
Doug McGill

Chairman Tallent called the meeting to order. Minutes were approved.

Doug McGill of Browning Ferris Industries spoke to the group and told them that since receiving the bid BFI has talked to surrounding counties and they will not allow BFI to haul Monroe County's trash into their county. The intention of BFI, at this time is to haul Monroe County's trash to BFI's Carter County Landfill.

Doug McGill offered to talk to the cities about their individual needs anytime they want.

Mr. McGill gave the board an update on the transfer station, convenience center and recycling proposal from BFI. He discussed the update with the board and suggested that they take the information home and digest. Attachment A.

Dewayne Cardin gave the board a report on KAB.

Meeting was adjourned.



Solid Waste
May 19, 1994
7:00 P.M.

Present

Brian Tallent
David Cleveland
Dewayne Cardin

Absent

Joe Helms
R.W. West
John Courtney
Betty Sparks
Glenn Moser

Others

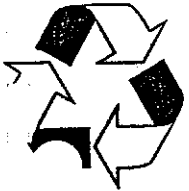
Buddy Sutton
Buddy Roy
Dean Williams
Allan Watson
Sandra Ray
Mitch Loomis
Ken White
Bette Tedford
Lori Chambers
Mike Shadden
M.Hendershot
H. Hawkins
Bill Bivens

Chairman Tallent opened the meeting and welcomed the guest and members. He introduced Mitch Loomis of ETDD spoke to the group about the solid waste plan. See attached handout.

Chris Garkovitch of CTAS spoke the group about cost estimates. See attached handout.

Since no quorum was present no official votes were taken.

Meeting was adjourned.



**MONROE COUNTY
SOLID WASTE REGIONAL BOARD
MADISONVILLE, TENNESSEE**

*City of Madisonville, Glenn Moser
City of Vonore, Betty Sparks
Monroe County, Ralph Teague*

*Monroe County, Joe Helms
Monroe County, David Cleveland
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DONNIE CHAMBERS**

**REX YATES
GARY KIMSEY
BETTE TEDFORD**

**CONSULTANT
TO THE BOARD:
CHRIS GARKOVICH**

**Solid Waste
Minutes
June 16, 1994**

PRESENT
Joe Helms
David Cleveland
R. W. West
Glen Moser

ABSENT
Ralph Teague
Dewayne Cardin
Alvin Fox
Betty Sparks

OTHERS
Mitch Loomis
Sandra Ray
Lori Chambers

Chairman Brian Tallent called the meeting to order. Minutes were approved. Chairman Tallent told the Board about a public meeting prior to the County Commission Meeting, at which time the plan will be submitted.

Mitch Loomis of ETDD presented the revised plan to the Board. David Cleveland questioned the Landfill Construction Cost in 1996. That figure will be revised before the plan is presented to the Commission.

Loomis told Commissioner West that the plan could be altered at any time. A MOTION was made by David Cleveland to accept the plan after changes and to present to County Commission. SECONDED Joe Helms. Passed

Public Hearing

Public Hearing

Ken Leinart	MONROE ADVOCATE/DEMOCRAT
SAM STAMEY	MAYOR, TOWN OF TULLOCH PLAINS, TN
Brian Talent	Fin Director
Joe Helms	County Com
John Sperry	Private Hauler
Mr. J. Young	" "
Haskell Allen	Landfill Mgr
Ernie Arner	Private Hauler
J. O. Dutton Jr.	Co. Commisioner
Buddy Roy	" "
Angela Welch	D.S.I. Citizen
Russ Stator	" "
Matthew E. Zouard	ETDD
David Cleveland	County Com
James Miller	Interested Citizen
Robert Conster	" "
Rebecca F. Tucker	citizen
J. Allen Watson	County Exp
Bah Talent	County Com
Larry Anderson	Interested Citizen
Richard White	citizen
Willis Binom	
Bette Jedford	Citizen

INVOICE / STATEMENT

Monroe County **Advocate Democrat**

1
 Monroe County Advocate Democrat
 609 East North St.
 P.O. Box 389
 Sweetwater, TN 37874
 (615) 337-7101 FAX (615) 337-5932

M 1

2
 ACCOUNT NAME EAST TN DEVELOPMENT DISTR
 MITCH LOOMIS
 5616 KINGSTON PIKE
 KNOXVILLE, TN 37939

H
 7.8 ACCOUNT NO. 4 INV./STMT. DATE 3 INVOICE/STMT. NO.
 229 06/30/94 2278
 5 BILLING PERIOD PAYMENT TERMS
 JUNE 1994 NET 10 DAYS

615-584-8553

9
 ADVERTISER IDENT NAME

TRANS. DATE	PUB	TRANS. CODE	CHARGE OR CREDIT DESCRIPTION / PRODUCT CODE	SAU/DIMENSIONS	BILLED UNITS	RATE	GROSS AMOUNT	NET AMOUNT
7/12	1	DIS	SOLID WASTE MEETING	2X 2.00	4.00	6.400	25.60	25.60
06/19	1	DIS	SOLID WASTE MEETING	2X 2.00	4.00	6.400	25.60	25.60
06/26	1	DIS	SOLID WASTE MEETING	2X 2.00	4.00	6.400	25.60	25.60

RECEIVED
 JUL 06 1994
 EAST TENNESSEE DEVELOPMENT DISTRICT

PREVIOUS BALANCE	PAYMENTS/CREDITS	AMT. SUB. TO SERVICE CHG.	SERVICE CHARGE	21 CURRENT GROSS AMT.	22 CURRENT NET AMOUNT
.00	.00	.00	.00	76.80	76.80

CASH DISCOUNTS	24 ACCOUNT STATUS				22 TOTAL NET AMOUNT DUE
	0-30 DAYS	31-60 DAYS	61-90 DAYS	OVER 90 DAYS	
	76.80	.00	.00	.00	76.80

THIS ACCOUNT IS DUE AND PAYABLE 10 DAYS FROM DATE OF INVOICE. A SERVICE CHARGE OF 1 1/2% PER MONTH WILL BE CHARGED ON ACCOUNTS UNPAID 30 DAYS (ANNUAL RATE IS 18%. \$1.00 MIN. CHARGE).

CONTRACT PERFORMANCE

EXPIRATION DATE	CURRENT MONTH
REQUIREMENT	CUMULATIVE

RETAIN FOR YOUR FILE

IT'S NOT TOO LATE TO RESERVE YOUR SPACE IN THE ANNUAL REPORT. TELL YOUR STORY YOUR WAY. THE ANNUAL REPORT WILL BE PUBLISHED JULY 24TH. ALL PAST DUE ACCTS INCUR A 1.5% SERVICE CHARGE. PAYMENTS ARE DUE BY JULY 10TH.

ACCOUNT NO.	INV./STAT. DATE	INVOICE/STMT. NO.
29	06/30/94	2278

ENTER AMOUNT ENCLOSED

27 ACCOUNT NAME
 EAST TN DEVELOPMENT DISTR

28 REMIT TO:
 MONROE COUNTY ADVOCATE DEMOCRAT
 609 EAST NORTH ST.
 P.O. BOX 389
 SWEETWATER, TN. 37874

Appendix E

Review by Appropriate Municipal or Regional Planning Commission

- 1. A copy of the minutes of the commission meeting recording submission and review of the plan.**