

**JEFFERSON 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

Jefferson County Solid Waste Regional Board

July, 1994

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Jefferson 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, Jefferson County formed a single county region. The main reason for the decision to form a single county region is that Jefferson County has just recently completed the new Class I and Class IV landfills that were built to meet the needs of Jefferson County citizens. By becoming a single county region, the Solid Waste Board felt that it would better be able to control and protect the disposal capacity of the Class I and Class IV landfills. Also, all of the neighboring counties were forming single county regions, which resulted in the lack of a potential contiguous county. However, the Jefferson County Solid Waste Board feels that there is a need for regional cooperation, especially in the area of marketing recyclable materials. The Solid Waste Board is made up of the following members from the County and the Cities in the region: G.W. Loy, Jr., Chairman; Karl Kammann; C.Edwin Simpson; Ponder Strange; Hubert Fox; Bobby Hubbard; John Turner; Gregg Gann; Wayne Hinkle and Jerry Calfee.

After completion of the needs assessment in 1992 by the East Tennessee Development District, the Solid Waste Board began dissecting the gathered information and formulating a solid waste plan. It should be noted that County Executive Gary Holiway and Solid Waste Superintendent Don Potts provided extensive help in developing the plan. County Executive Gary Holiway was able to keep the County Commission informed, which is probably why County Commission approval of the solid waste plan was unanimous. Using the State guidelines, the Jefferson 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 10 year planning period.

Before we begin our discussion, terminology and background information is provided on the Jefferson County region. The region of Jefferson County is 273.8 square miles and has a population of 33,456. The urban population consists of the following cities: New Market, Jefferson City, Baneberry, Dandridge and White Pine, which make up 16.8% of the total population of Jefferson County.

Throughout the discussion you will read 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, 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. Jefferson County currently produces nearly 32,569 tons-per-year of waste of which 23,550 goes to the publicly owned Class I landfill. Jefferson County also has approximately 3000 tons-per-year or 8% of the total waste being generated in the region classified as unmanaged waste. Unmanaged waste can be described as waste that ends up along roadsides and mountain bluffs rather than a landfill. This figure has dropped from the 57% of unmanaged waste that was generated before the implementation of convenience centers in the region. The region of Jefferson County has a Class IV landfill that diverts nearly 17% of the waste being generated in the region from the Class I landfill. Jefferson County also utilizes a Class II landfill in Hamblen County that diverts nearly 8% of generated waste from the Class I landfill. It is estimated that an additional 1% of waste reduction is currently being met through individual recycling and industrial\commercial in-house recycling programs. The State of Tennessee is requiring that all regions meet a 25% reduction of waste from the Class I landfill. The region of Jefferson County currently has a 25% reduction and feels that additional reduction will be met as the recycling program is implemented. The Solid Waste Board feels that there are three ways that the region can continue meeting the 25% waste reduction through waste diversion, recycling and source reduction. Source reduction is basically the ability not to use virgin material and reuse material, which will save the environment and keep additional items from reaching the Class I landfill. The current 1% source reduction will probably be maintained in the future, but additional education through the use of CIS, a State program that helps industries set up a source reduction and recycling program, should help to keep the 1% source reduction. The next element of waste reduction is waste diversion which can be met by taking certain items to another site or by using another disposal method that will keep the items from going into a Class I landfill. Class II, III and IV landfills can be used to meet this diversion of waste from the Class I landfill. As was stated earlier, the region of Jefferson County currently has a Class IV landfill and utilizes a Class II landfill

in Hamblen County. The Solid Waste Board will look at the implementation of a Class III waste facility as a diversion in the future. Currently, the Solid Waste Board feels that there is not enough Class III waste being generated to warrant a Class III landfill, but equipment such as an air curtain destructor or a tub grinder may be purchased in the future. The final element of waste reduction is recycling, which is also one of the five components.

Recycling in the region of Jefferson County is at 3.6% and that does not involve any County publicly operated recycling programs. Lakeway Recycling, a private enterprise, does provide some recycling services to the public, but overall amounts have been minimum. Jefferson County is in a unique situation in that they can virtually meet the State's 25% waste reduction goal without the use of recycling. This will allow the region of Jefferson County to slowly get into the recycling of its waste. The State of Tennessee has set a goal for each region to have at least one recycling drop-off point by December 31, 1995. The Jefferson County Regional Solid Waste Board plans to meet this requirement. It is the sentiment of the Board and the County Commission that when an established market for recyclable material has been secured, the region of Jefferson County is ready to become an active participant of recycling. However, the Board feels that collecting recyclable material it can't get rid of in an economical fashion is not wise.

It should be noted that the Cities of Jefferson City and Dandridge have already began recycling programs, which are integrated into their door-to-door pickup of waste. The region feels that these cities need to continue their programs and anticipate the other cities to follow. As can be seen by looking at the recycling program 10 year budget, the Solid Waste Management Plan calls for the integration of recycling drop-off sites at all the current convenience centers.

To reiterate, the State of Tennessee is requiring that each region reduce the generated waste going into the Class I landfill by 25%. The region of Jefferson County is currently meeting the 25% reduction goal set by the State by utilizing waste diversion, source reduction and recycling. The region of Jefferson County utilizes a Class IV and Class II landfills as waste diversion from the Class I landfill, which allows the region to meet the 25% reduction of waste going into the Class I landfill. Likewise, the Cities of Jefferson City and Dandridge have established recycling programs that have been quite successful and should help the region to maintain the 25% reduction in the future. Finally, the region of Jefferson County plans to integrate recycling with the convenience centers. This will not only meet the State requirement of one drop off site by 1995, but will further enhance the recycling program through the availability of eight convenience centers as recycling drop off points. The following table represents the 10 year budget for the recycling program. The 10 year budget for the Class IV landfill is shown with the Class I landfill, since both landfills are integrated.

Annual Capital and Operating Costs for Recycling Program

Recycling Program	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:									
Equipment:	\$8,000		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Sinking Fund:		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Total Capital Cost:	\$8,000	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Operation Cost:									
Personel:*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Transporation:	\$3,224	\$3,224	\$3,224	\$3,224	\$3,224	\$3,224	\$3,224	\$3,224	\$3,224
Publicity & Education:	\$1,500	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Sub-Total:	\$4,724	\$4,224	\$4,224	\$4,224	\$4,224	\$4,224	\$4,224	\$4,224	\$4,224
3.4% CLI		\$144	\$287	\$431	\$574	\$718	\$862	\$1,005	\$1,149
Total Operation Costs:	\$4,724	\$4,368	\$4,511	\$4,655	\$4,798	\$4,942	\$5,086	\$5,229	\$5,373
Total Capital & Operation Costs:	\$12,724	\$5,368	\$9,511	\$9,655	\$9,798	\$9,942	\$10,086	\$10,229	\$10,373

In 1994 no money was anticipated being spent for recycling and for that reason the 1994 column was left off.

* Personnel will be handled by the Convenience Center operators.

The next component is collection. The region of Jefferson County provides door to door collection by the cities and private haulers and the County has eight (8) convenience centers placed throughout the region for public use. These centers will need to be brought up to the new State standards over the next 10 year planning period. The Solid Waste Board feels that with the convenience centers and the cities and private haulers providing door-to-door collection in the region of Jefferson County is more than sufficient in the collection of municipal waste. The following chart will show you the current convenience centers and the condition of the centers in accordance to State standards. The following budget represents the capital and operating cost of the convenience centers over the next 10 year planning period.

In summary, State requirements for the region of Jefferson County is that at least one convenience center must be built according to State standards. The region of Jefferson County plans to bring the existing eight convenience centers up to State standards within the 10 year planning period. The first convenience center will be brought up to State standards no later than January 1, 1996.

CONVENIENCE CENTERS INVENTORY (OCTOBER 1993)

	1	2	3	4	5	6	7	8
	Leadmine	Indian Creek	Shale Road	Deep Springs	Rocktown	Landfill	Quarry Road	Straw Plains
DESIGN/OPERATION STANDARDS								
ACCESS • Fence • Hours posted	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DUST/MUD CONTROL • Paved/compacted stone	Gravel	Gravel	Gravel	Gravel	Gravel	Paved	Gravel	Gravel
RUN-OFF CONTROL • Proper grading	slopes back	slopes to creek	slopes to road	Yes	slopes back	slopes to road	Yes	slopes back
FIRE SAFETY • Fire suppression equipment • Fire department support	No	No	No	No	No	No	No	No
COMMUNICATION • On-site equipment	No	No	No	No	No	Yes	No	No
PERSONNEL FACILITIES • Office building • Sanitary facilities	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ELECTRICITY • Equipment and facility	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PROCESS WATER • Compaction equipment	No	No	No	No	No	No	No	No
WASTE HANDLING • Litter maintenance • Containers on compacted stone/pavement	Yes Yes	No Yes	Yes Yes	No Yes	Yes Yes	Yes Yes	No Yes	Yes Yes
FACILITY SUPERVISION • Personnel present • Training completed	Yes No-----	Yes ----->	Yes	Yes	Yes	No Yes	Yes	Yes
SITE PERMITTED	No	No	No	No	No	No	No	No
SPECIAL WASTE	NA	NA	NA	NA	NA	NA	NA	NA
WASTE CONTAINERS • 6 cubic yard • Number	Yes 13	Yes 9	Yes 15	Yes 12	Yes 15	Yes 15	Yes 13	Yes 20
RECYCLING	Attendants pull out certain materials for recycling--	----->						

Capital and Operating Costs for Collection System

Program	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:										
Rent:	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200
Construction:	\$6,200									
Sinking Fund:	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143
Total Capital Costs:	\$39,543	\$33,343	\$33,343	\$33,343	\$33,343	\$33,343	\$33,343	\$33,343	\$33,343	\$33,343
Operation Costs:										
Personnel:	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346
Transportation:	\$34,304	\$34,304	\$34,304	\$34,304	\$34,304	\$34,304	\$34,304	\$34,304	\$34,304	\$34,304
Disposal Fee:	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240
Sub-Total:	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890
3.4% CLI:		\$13,222	\$26,445	\$39,667	\$52,829	\$66,111	\$79,334	92,556	105,778	\$119,000
Total Operation Costs:	\$388,890	\$402,112	\$415,335	\$428,557	\$441,779	\$455,001	\$468,224	\$481,446	\$494,668	\$507,890
Total Capital & Operation Costs:	\$428,433	\$435,455	\$448,678	\$461,900	\$475,122	\$488,344	\$501,567	\$514,789	\$528,011	\$541,233

The next component is the disposal of municipal waste. The region of Jefferson County currently has a Class I and Class IV landfill that should give them at least 30 + years of service. Jefferson County is currently losing some of its waste to other landfills, but the problem is not severe enough to initiate any flow control measures. Jefferson County has constantly experienced higher tipping fees than their neighbors largely due to the fact that their landfill is operating under all the new State and Federal regulations, while the other landfills are still operating under the old regulations. By 1996, all landfills will be operating under the same Federal and State regulations which will put Jefferson County's landfill on a more even playing field with the neighboring landfills. Also, it should be noted that as the reduction of waste goes into effect the cost of the tipping fees will probably go up due to the fact that the amount of generated waste determines the tipping fees to balance the budget. Currently all tipping fees are being paid by industries, commercial establishments, cities and private haulers. The Solid Waste Board has not ruled out taking outside waste, but personally would like to be able to operate the landfill without the use of outside county waste. The Solid Waste Board, however, does have a non-documented agreement with Hamblen County that if Hamblen County has not finished its new landfill in time to operate before the old one closes they can utilize the Jefferson County landfill for a short time. The following 10 year budget shows the cost of both the Class I and Class IV landfills.

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 Jefferson County Class I and Class IV landfills under new State and Federal Regulations.

Table 1
Capital and Operating Costs for Jefferson County Class I and Class IV Landfills (Dollars)

CLASS I AND CLASS IV LANDFILLS	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<i>Capital Costs</i>										
CLOSURE COSTS (c)	24,694	25,929	27,225	28,586	30,015	31,516	42,434	44,558	46,784	49,123
POST CLOSURE CARE (a)	28,600	28,600	28,600	28,600	28,600	28,600	28,600	28,600	28,600	28,600
EQUIPMENT/FUEL/OIL (e)	175,300	176,942	178,636	180,384	182,188	193,900	195,822	197,805	199,852	201,964
BONDS/DEBT SERVICE	145,726	145,726	145,726	145,726	145,762	145,726	145,276	145,726	145,726	145,726
MATERIALS (d)	87,300	90,094	92,977	95,952	99,022	102,191	105,461	108,836	112,319	115,913
POST CLOSURE (HWY 92 FACILITY) (b)	179,928	183,924	88,121	92,527	97,153	102,011	107,111	112,467	118,090	123,995
TOTAL CAPITAL COSTS	641,548	651,215	561,285	571,775	582,740	603,944	624,704	637,992	651,371	665,321
<i>Operating Costs:</i>										
SALARIES/WAGES/BENEFITS (d)	169,350	174,770	180,360	186,130	192,090	198,240	204,580	211,130	217,890	224,860
OVERHEAD/ADMIN/MISCELL (d)	87,460	90,260	93,150	96,130	99,200	102,370	105,650	109,030	112,520	116,120
TESTING	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000
ENGINEERING (d)	16,000	16,512	17,040	17,585	18,148	18,729	19,946	20,584	21,243	21,923
TOTAL OPERATING COSTS	314,810	323,542	332,550	341,845	351,438	361,339	372,176	382,744	393,653	404,903
TOTAL CAPITAL & OPERATING COSTS	956,358	974,757	893,835	913,620	934,178	965,283	996,880	1,020,736	1,045,024	1,070,224

(a) Amount required annually for 40 years to provide 30 years of post closure costs for the new landfill.
 (b) 1994 and 1995 include \$100,000 each for post closure care of the Class IV portion of the Highway 92 facility
 (c) these figures include 5.0 percent growth multiplier
 (d) these figures include 3.2 percent growth multiplier
 (e) portions of these figures include 3.2 percent growth multiplier

The final 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 techniques, then all of the other components will be unsuccessful. The region of Jefferson County does not have a solid waste education program, but does use some of its litter grant funds to publish solid waste issues for the citizens of Jefferson County. Also, Bill Reed of the University of Tennessee Agricultural Extension Office has been involved with several education and reduction programs in the schools and has worked out an agreement with the vocation school to build composting bins for those people who would like to compost as a way of waste reduction. The Solid Waste Board feels that becoming part of the Keep America Beautiful program will be beneficial to the region. All of the County schools have shown an interest in using solid waste issues in the everyday lesson plans and civic organizations are wanting to use solid waste as projects for their yearly happenings. All of this enthusiasm needs direction and the Keep America Beautiful Program can provide the solid waste education director the tools to tap this voluntary resource. The following budget represents the 10 year plan for the education program.

Capital and Operating Costs for Education Program

Program	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:									
Audio/Visual Equipment:	\$600							\$1,000	
KAB Franchise Fee:	\$2,500								
Total Capital Costs:	\$3,100							\$1,000	
Operation Costs:									
Personnel:	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600
Office Supplies:	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Publicity:	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
KAB Annual Fee:		\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250
Sub-Total:	\$17,600	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850
3.4% CLI:		\$607	\$1,214	\$1,821	\$2,428	\$3,035	\$3,641	\$4,248	\$4,855
Total Operation Costs:	\$17,600	\$18,457	\$19,064	\$19,671	\$20,278	\$20,885	\$21,491	\$22,098	\$22,705
Total Capital & Operation Costs:	\$20,700	\$18,457	\$19,064	\$19,671	\$20,278	\$20,885	\$21,491	\$23,098	\$22,705

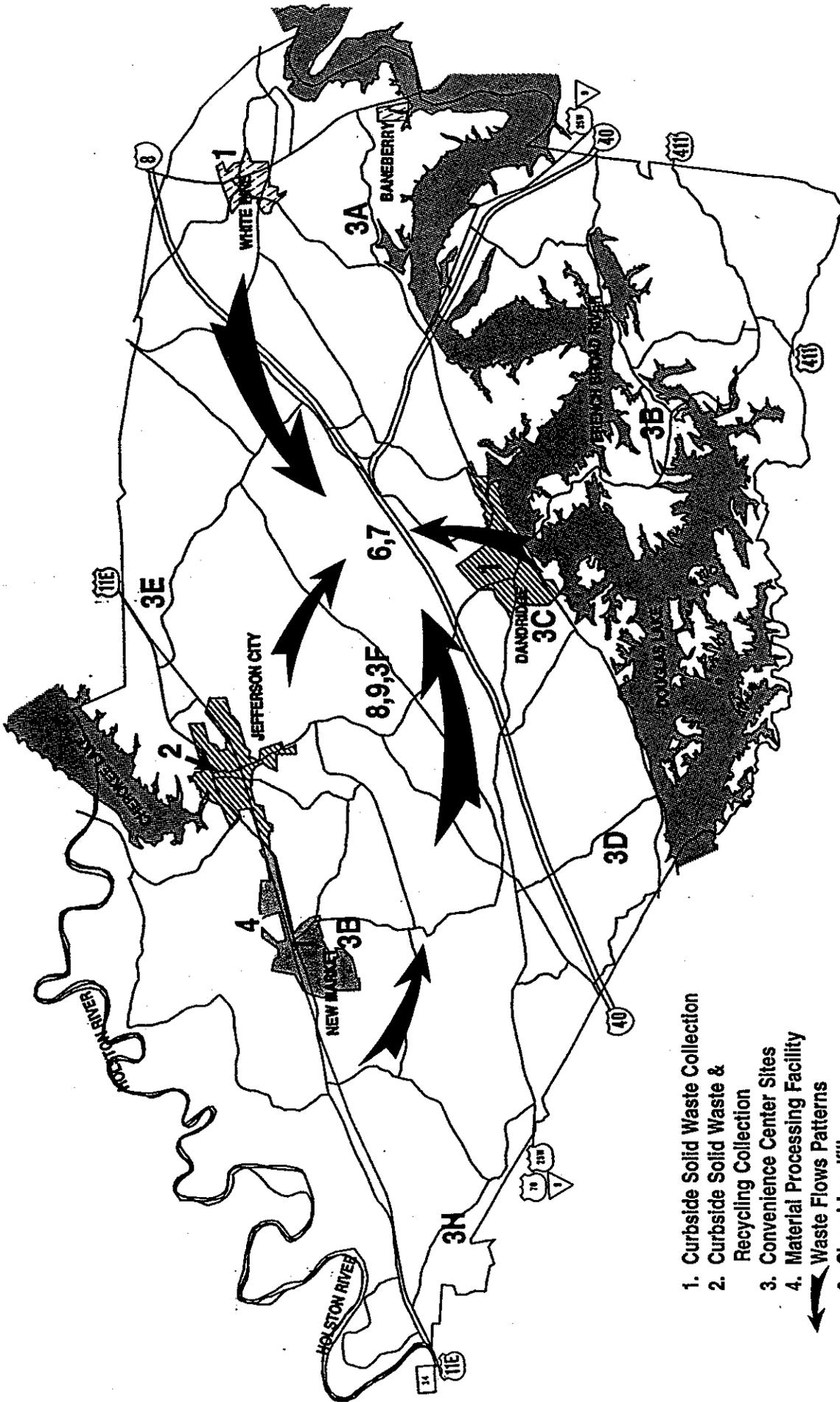
1994 expenses will be \$1000 on publicity.

Finally, household hazardous waste needs to be addressed in the 10 year planning period. Basically HHW is used motor fluids and oil filters, but eventually may progress into paint cans, aerosol cans, etc. The region of Jefferson County currently has a HHW site at the old landfill site and also publicizes the private sector that collects used oil in the region. The region of Jefferson County also utilizes the State mobile equipment at least twice a year. The Solid Waste Board feels that eventually HHW drop-off sites should be integrated into all of the convenience centers and have already began this process.

In summary the region of Jefferson County is ahead of the game in a lot of the State goals that have been established for the regions. The region is meeting the 25% reduction of waste from the Class I landfill, but still needs to develop a recycling program County wide. The region has a class I landfill that meets all current State and Federal regulations. The region has eight convenience centers in place that can easily be brought up to State standards. The one area besides the recycling that the region of Jefferson County is lacking is the education program. All indications show that there are numerous people willing and able to assist in the education of the Solid Waste Management Plan for the region of Jefferson County, but currently no plans have been developed to tap this extremely enthusiastic resource. The Keep America Beautiful program and its director should be able to utilize these people and make the Solid Waste Management Plan a success for the region of Jefferson County. The Solid Waste Board feels that they have come up with the most economical plan available for the region of Jefferson County. The following 10 year budget plan shows the overall budget for the Solid Waste Management Plan of Jefferson County.

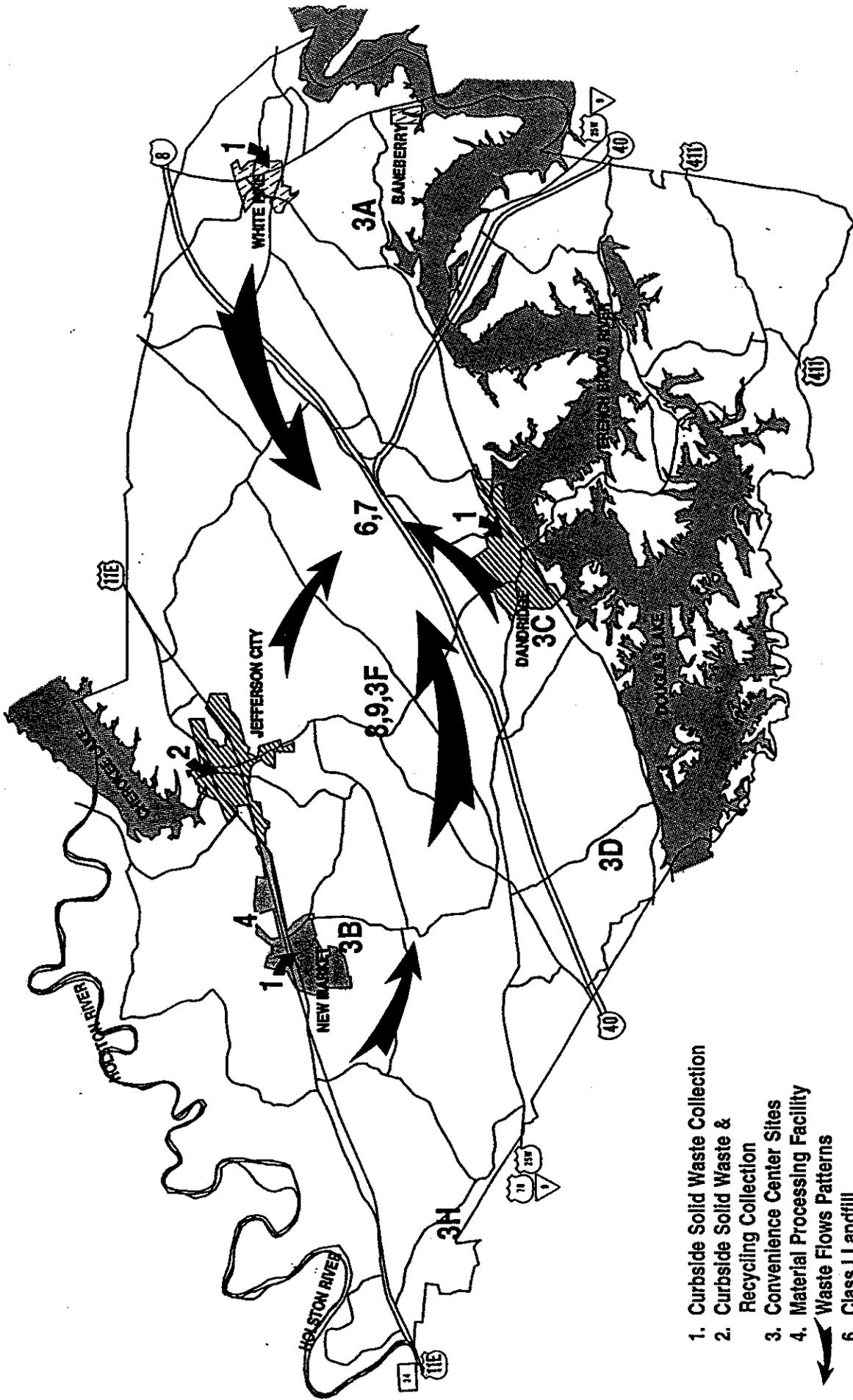
Annual Capital and Operating Cost for the 10-Year Regional Plan

Component	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Class I Landfill:	\$956,358	\$974,757	\$893,835	\$913,620	\$934,178	\$965,283	\$996,880	\$1,020,736	\$1,045,024	\$1,070,224
Class IV Landfill:	See Above									
Collection:	\$428,433	\$435,455	\$448,678	\$461,900	\$475,122	\$488,344	\$501,567	\$514,789	\$528,011	\$541,233
Recycling:	\$0	\$12,724	\$5,368	\$9,511	\$9,655	\$9,798	\$9,942	\$10,086	\$10,229	\$10,373
Education:	\$1,00	\$18,198	\$19,064	\$19,671	\$20,278	\$20,885	\$21,491	\$22,098	\$22,705	\$23,312
Total Costs:	\$1,384,791	\$1,441,134	\$1,366,945	\$1,404,702	\$1,439,233	\$1,484,310	\$1,529,880	\$1,567,709	\$1,605,969	\$1,645,142



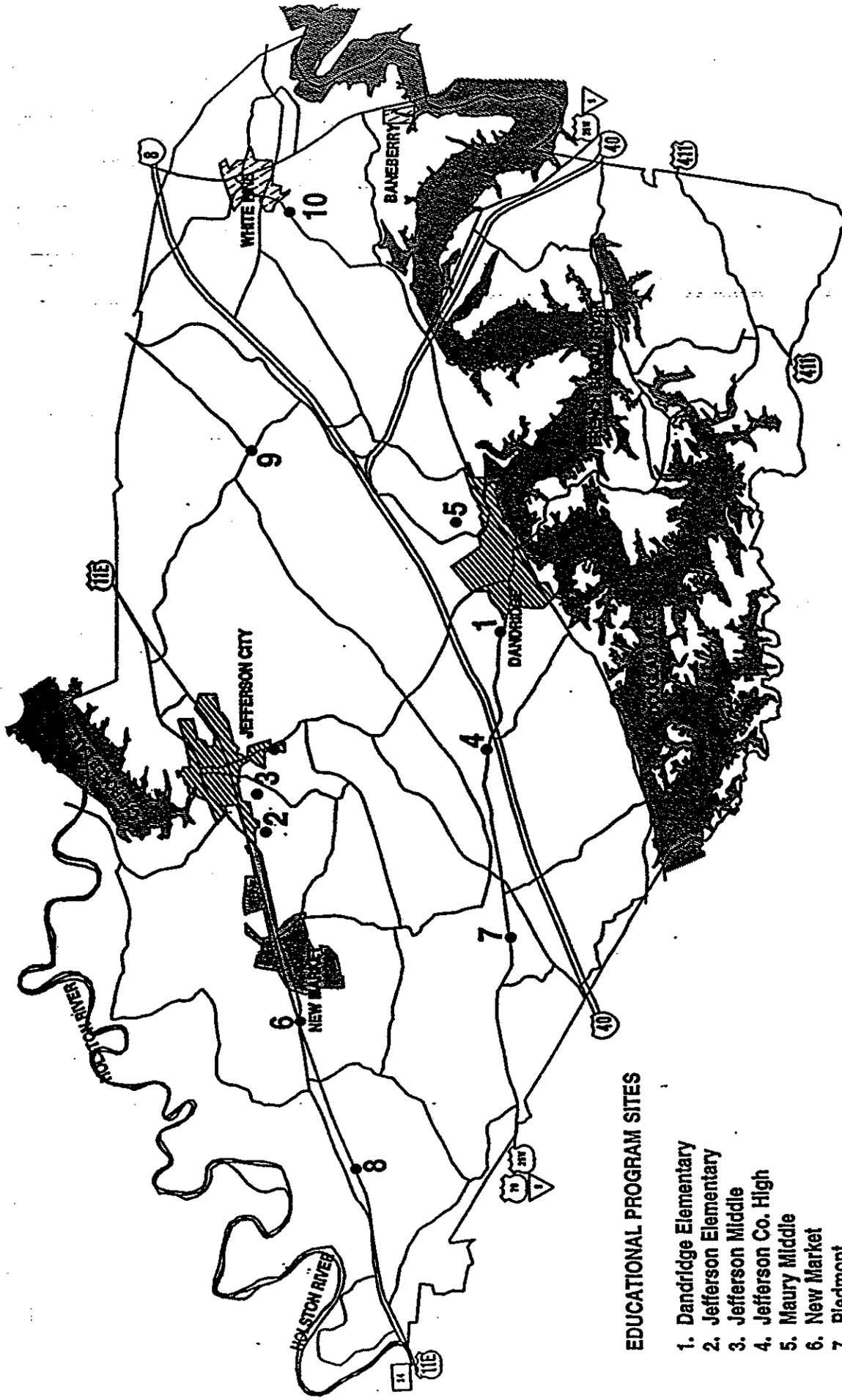
1. Curbside Solid Waste Collection
2. Curbside Solid Waste & Recycling Collection
3. Convenience Center Sites
4. Material Processing Facility
6. Waste Flows Patterns
7. Class I Landfill
7. Class IV Landfill

**EXISTING SOLID WASTE MANAGEMENT SYSTEM
FOR THE REGION OF JEFFERSON COUNTY**



- 1. Curbside Solid Waste Collection
- 2. Curbside Solid Waste & Recycling Collection
- 3. Convenience Center Sites
- 4. Material Processing Facility
- Waste Flows Patterns
- 6. Class I Landfill
- 7. Class IV Landfill
- 8. Household Hazardous Waste
- 9. Recycling Center

PROPOSED & EXISTING SOLID WASTE MANAGEMENT SYSTEM FOR THE REGION OF JEFFERSON COUNTY



EDUCATIONAL PROGRAM SITES

- 1. Dandridge Elementary
- 2. Jefferson Elementary
- 3. Jefferson Middle
- 4. Jefferson Co. High
- 5. Maury Middle
- 6. New Market
- 7. Pledmont
- 8. Rush Strong
- 9. Talbott
- 10. White Pine

EDUCATIONAL PROGRAM SITES OF JEFFERSON COUNTY

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	X	County	\$ 4,000	General Fund/ Tipping Fees
Integrate Recycling with Door-to-Door Collection	X	X									Cities	\$20,000	Solid Waste Fee
Educate the Public		X									Education Committee	\$ 1,000	State Grant
Purchase Recycling Equipment		X									County / Cities	\$ 4,000	State Grant
Join R.M.C.E.T.		X									County	\$10,000	Sale of Recyclables
Communicate with Office of Cooperative Marketing		X									Solid Waste Board	N/A	N/A
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports and Data Collection	X	X	X	X	X	X	X	X	X	X	Solid Waste Coordinator	\$28,000	Tipping Fees

Ten Year Implementation Schedule for Collection Program

Collection	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Continue Door to Door Collection	X										Cities & Private Haulers	Varies	Solid Waste Fee/ Property Tax
Establish Standards for Private Haulers		X									State	N/A	N/A
Bring Convenience Centers up to State Standards		X	X	X	X	X	X	X	X		County	\$ 6,000	State Grant
Manned Convenience Centers	X										County	\$114,000	General Fund
Certification of Staff			X								State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	X	X	X	X	X	X	X	X	X	X	Solid Waste Coordinator	\$ 28,000	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
Continue to Operate Class I Area of Landfill within Current Guidelines	X										County	\$925,000	Tipping Fee/ Property Tax
Apply for Permit to Upgrade Landfill					X						County	\$ 25,000	Tipping Fee
Construct New Cell						X					County	\$300,000	Tipping Fee
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	X	X	X	X	X	X	X	X	X	X	Solid Waste Coordinator	\$ 28,000	Tipping Fee

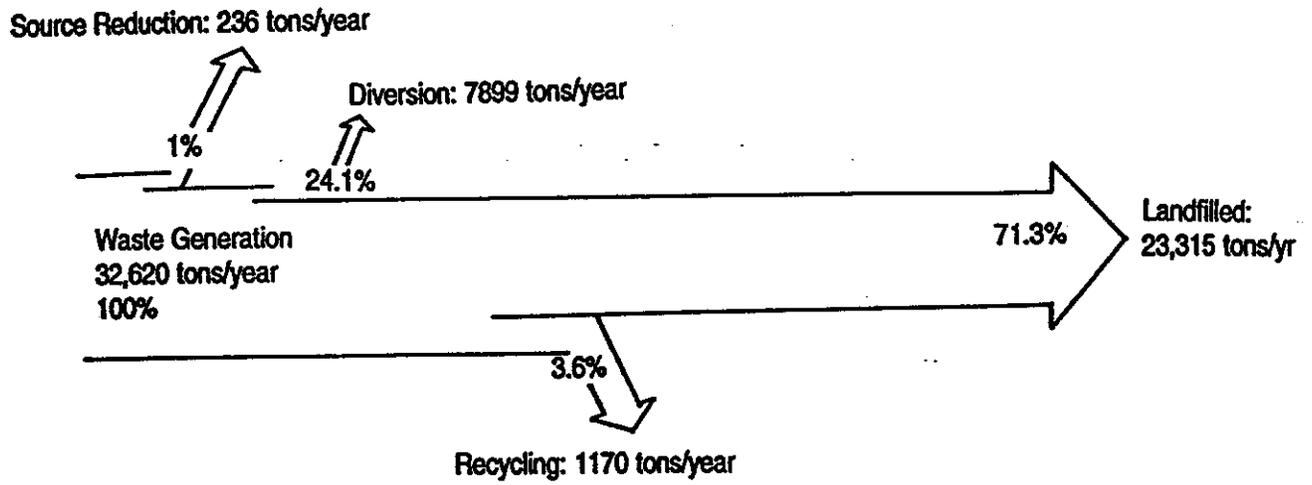
Ten Year Implementation Schedule for Education Program

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	Private Donations
Hire Education Coordinator		X									County	\$15,600	Private Donations/ General Fund
Educate the Target Groups		X									Education Committee	\$ 1,000	State Grant
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports	X	X	X	X	X	X	X	X	X	X	Solid Waste Corrdinator	\$28,000	Tipping Fees

Ten Year Implementation Schedule for Household Hazardous Waste

HHW	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Use State's Mobile Equipment	X										Solid Waste Board	\$ 1,000	Tipping Fee
Publicise HHW Sites	X										Solid Waste Board	\$ 1,000	Tipping Fee
Continue Use of Tire Storage Site	X										Landfill Operator	\$15,000	State Grant / Tipping Fee
Integrate HHW sites with Convenience Centers		X	X	X	X	X	X	X	X		County	\$ 6,500	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	X	X	X	X	X	X	X	X	X	X	Solid Waste Coordinator	\$28,000	Tipping Fee

Flow Diagram for Jefferson County Region:



JEFFERSON 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 Assessment, 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.

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CHAPTER I.

**DESCRIPTION OF THE
MUNICIPAL SOLID WASTE REGION**

A. GENERAL DESCRIPTION:

The County and municipalities in the Region include: Jefferson County, Jefferson City (city), New Market (city), Dandridge (town), White Pine (town), and Baneberry (town). The total area of the Region (Jefferson County) is 273.8 square miles or 174,200 acres. The major physiographic features include: Bays Mountain; Shields Ridge; French Broad River/Douglas Lake; Cherokee Lake and Holston River.

Commercial	Residential	Industrial	Recreational	Agricultural	Public	Forest
150 acres	3,330	270	1,790*	138,200	3,120	27,340
0.09%	1.9%	0.16%	1.0%	79.3%	1.8%	15.7%

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 plan for Jefferson County dating from 1970. Therefore, it may not accurately reflect commercial and residential growth that has been spurred by the Douglas Lake and the Interstate system.

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 Jefferson County failed to adopt a multi-county option.

The initial rationale for forming a single-county region was due to the lack of potential contiguous counties wishing to form a multi-county region with Jefferson County. Also, the County initiated the design, development and operation of a newly permitted Class 1 landfill located in Dandridge to be utilized for the disposal of solid waste generated by Jefferson County and its cities. In an effort to protect the disposal capacity of the Jefferson County Landfill, the County decided to form a single-county region.

C. INSTITUTIONAL STRUCTURE:

The description of the institutional structure of the Jefferson County Solid Waste Regional Planning Board includes details on individual members, their authority and duties. The Board members, their representation and term of office are listed as follows:

<u>Member</u>	<u>Representation</u>	<u>Term of Office</u>
G. W. Loy	County (<i>Chair</i>)	4
Karl Kamman	Baneberry (<i>Vice-Chair</i>)	6
C. Edwin Simpson	County	2
Ponder Strange	County	2
Hubert Fox	County	2
Bobby Hubbard	County	4
John Turner	County	4
Gregg Gann	Dandridge	6
Wayne Hinkle	Jefferson City	6
Jerry Calfee	White Pine	6

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 Highway Commission, County Commission and the Board during the planning process. Both City and County representatives report to their respective councils or commissions. There are also waste management workshops and seminars that 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. The Committee is composed of the members of the Solid Waste Board plus private citizens and local professionals who were recommended by Board members to assist during the planning process. The Advisory Committee assists the Solid Waste Board in collecting data and determining planning options for the following sub-committees: Public Education, Finance, Collection, Reduction, and Disposal/Waste Flow. Solid Waste Advisory Committee members include: Don Potts, and Gary Holiway.

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 and distribution, housing occupancy, and projected populations.

Name of Region: Jefferson County

Regional Population: 33,456 (1993)

Regional Area; 273.8 square miles

Table I-1

Average Population Density

County	Area (Sq. Miles)	1993 Population	Avg. Density Population/sq.miles
Jefferson	273.8	33,456	122.2
Regional Total	273.8	33,456	122.2

Table I-2

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

County	Urban		Rural	
	Population	%	Population	%
Jefferson	5,621	16.8	27,835	83.2
Regional Total	5,621	16.8	27,835	83.2

Table I-3

Distribution of Total Regional 1990 Population by Sex and Age

Age	Total	Male	%	Female	%
0 - 4	1,796	895	49.8	901	50.2
5 - 17	5,442	2,918	53.6	2,524	46.4
18 - 44	13,734	6,770	49.3	6,964	50.7
45 - 64	7,645	3,751	49.1	3,894	50.9
65 +	4,399	1,802	41.0	2,597	59.0
REGIONAL TOTAL	33,016	16,136	48.9	16,880	51.1

Source: 1990 Census

Table I-4
Distribution of Regional 1990 Population by Education (Age ≥ 25)

	Number	%
Less than 9th Grade	4,858	22.6
9th-12th Grade, no diploma	3,644	16.9
High School Graduate	6,655	30.9
Some College, no degree	3,013	14.0
Associate Degree	810	3.8
Bachelor's Degree	1,454	6.8
Post Graduate/Professional Degree	1,070	5.0
REGIONAL TOTAL	21,504	100.0

Source: 1990 Census

Table I-5
Distribution of Region by Type of Housing and Occupancy in 1990

	Total Persons	Occupied	Owner	Rented
Single Family				
1, Detached	23,197	8,876	7,545	1,331
1, Attached	273	120	61	59
Multi-Family				
2	526	217	23	194
3-4	464	251	11	240
5-9	444	239	2	237
10-19	373	215	2	213
20-49	38	26	1	25
50 or more	0	0	0	0
Institutional	1,601	NA	NA	NA
Mobile Home/Trailer	5,805	2,264	1,796	468
Other	295	121	78	43
REGIONAL TOTAL	33,016	12,329	9,519	2,810

Source: 1990 Census

Note: Total Number of Households in Region 13,120 (1993 Estimate)

Table I-6

Regional Population Projections 1994 - 2003

Projection Year

County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Jefferson	33,600	33,764	33,894	34,044	34,187	34,330	34,478	34,569	34,659	34,752
Regional Total	33,600	33,764	33,894	34,044	34,187	34,330	34,478	34,569	34,659	34,752

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

Note: Regional Population 1993: 26,583

According to the population projections compiled by the University of Tennessee, Department of Sociology, Jefferson County's population will increase 4.6% between 1990 and 2000. However, the County's growth will slow to 2.8% between 2000 and 2010. It is anticipated that the municipalities in the County will decline in population during the next two decades unless major annexations occur. The decline is due to the limited amount of new construction and an overall decline in household size.

Between 1980 and 1990 Jefferson County's population increased 5.5%. The largest increases occurred around the Cities of Dandridge and Jefferson City outside the corporate limits. With increases in population occurring over the past 10 years, and again, projected for the next decade, waste generation projections predict a steady increase, also. Significant increases appear to be concentrated in areas of the County outside the municipalities. Solid waste planning will need to accommodate the increase in demand for County collection and disposal services.

E. ECONOMIC ACTIVITY

The following information concerns basic economic activity of Jefferson 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 Jefferson County**

County	1993 Population ¹	MSA County (yes/no)	Total Employment ²	Total Earnings ²	Per Capita Income ²	% Population Below the Poverty Line ³
Jefferson	33,456	No	15,046	\$453,206,000	\$13,511	15.1%
Regional Total	33,456	No	15,046	\$453,206,000	\$13,511	15.1%

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 % of Total Employment**

County	Manufacturing	Construction	Trade	Finance	Service	Govt.	Transportation Pub. Utilities
Jefferson	3,530	746	2,241	756	2,861	1,824	733
Regional Total	3,530	746	2,241	756	2,861	1,824	733
%	23.5	5.0	14.9	5.0	19.0	12.1	4.9

Source: Bureau of Economic Analysis, U.S. Department of Commerce, 1991
 Note: Total Non-agricultural Employment, by Sector, in 1991 13,339

**Table I-9
Agricultural Employees**

County	Employment
Jefferson	1,707
Regional Total	1,707

Note: Total Agricultural Employment in 1991 1,707

Table I-10

Employers by Industry in the Region of Jefferson 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	337	107	44	44	15	9	2	3	
Ag. Services, Forestry, Fisheries	9	6	2	1						
Mining	4		1			1	2			
Construction	64	47	9	6	1	1				
Manufacturing	57	13	6	8	18	4	4	2	2	
Transportation, Communication, Utilities	29	16	4	2	3	3	1			
Wholesale Trade	33	17	8	7	1					
Retail Trade	150	84	31	14	15	6				
Finance, Insurance, Real Estate	36	23	10	1	2					
Services	153	107	34	5	4		2		1	

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

* Includes both private and public entities in 1990.

Table I-11

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*
Jefferson	1	1,250	1,140 tpy
Regional Total	1	1,250	1,140 tpy

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

Table I-12

Summary Data on Major Health Care Facilities (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	
Jefferson	4	478	offsite	incineration	619 tpy
Regional Total	4	478	offsite	incineration	619 tpy

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

Table I-13

Sources of Local Revenue Utilized in the Region of Jefferson County

County	Property Tax	Local Sales Tax	Wheel Tax	Local Waste Collection Fee	User Fee/ Tipping Fee	Other
Jefferson	X	X	X		X	
Regional Total	X	X	X		X	

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 Tax ¹	1992 Total Local Sales Tax Revenue	1992 # Registered Vehicles	1992 Total Wheel Tax Revenue
Jefferson	\$261,941,211	\$6,139,478	\$133,500,000	\$9,126,150	23,000	\$569,025
Regional Total	\$261,941,211	\$6,139,478	\$133,500,000	\$9,126,150	23,000	\$569,025

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

According to the U.S. Department of Commerce's employment projections, Jefferson County will continue to experience a steady increase in employment during the next two decades. As a result, increases in waste generation will likely occur over the next decade and beyond. Potential waste reduction for the next 10 years could be realized from the commercial waste streams in Jefferson County.

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 Jefferson County Profile, prepared for the County as a part of the District Needs Assessment (Chapters III, V, VI, VII, VIII, and IX).

A. WASTE STREAM CHARACTERIZATION

To date, there have been no detailed studies of the composition of Jefferson 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

Jefferson County	Tons Disposed	Population (1991)	Waste Disposed Per Capita
Regional Total	15,727	33,170	.47

Table II-2

**Origin of Regional Solid Waste in 1991
Tons Per Year**

Jefferson County	Residential	Institutional/ Commercial	Non-Hazardous Industrial	Special	Other
Regional Total	8,492	2,831	4,089	315	---

Table II-3

Acceptance of Certain Categories of Solid Waste for Disposal or Incineration

Jefferson County/ Facility	Yard Waste (Clippings leaves-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	315	N	0	Y	3,932	Y	520	N	0

* 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	6,291
Glass	7.1	1,117
Ferrous Metals	6.5	1,022
Aluminum	1.4	220
Other Non-Ferrous Metals	0.6	94
Plastics	8.0	1,258
Rubber & Leather	2.5	393
Textiles	2.1	330
Wood	3.6	566
Food Waste	7.4	1,164
Yard Waste	17.6	2,768
Misc. Inorganic Waste	1.5	236
Other	<u>1.7</u>	<u>268</u>
TOTAL MUNICIPAL SOLID WASTE	100.0	15,727

Yard waste amounts in Jefferson County would be somewhat lower than the national percentage.

Table II-5

Unmanaged Waste*

Jefferson County	Potential Waste Generation 1991 tpy	Actual Waste Disposed 1991 tpy	Unmanaged Waste 1991 (potential/actual) tpy	Percent of Potential Total
Regional Total	36,321	15,727	20,594	57%

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

Due to the large rural population in Jefferson County, yard waste percentages would be less than the national composition. Also, because of certain local industries wood waste may be slightly higher than national averages.

B. WASTE COLLECTION AND TRANSPORTATION SYSTEMS

The existing collection services and facilities in the planning region of Jefferson County (County Profile of the District Needs Assessment, Chapter V, A.1-18.) are provided by the County, the municipalities of Jefferson City, Dandridge, White Pine and Baneberry, and several private haulers operating in the County. All four cities offer door-to-door collection to their residents, and the County offers solid waste collection services through a network of convenience center sites. Each convenience center is open to the public for 44 hours weekly. Operating hours are posted at each site entrance.

The estimated number of residents served in the Region of Jefferson County by the combined solid waste collection systems is listed below:

<u>Service Provider</u>	<u>Solid Waste Collection System</u>	<u>Number of Residents Served</u>
County	8 Convenience Centers	18,550
Jefferson City	Door-to-Door Collection	5,100
Dandridge	Door-to-Door Collection	1,510
White Pine	Door-to-Door Collection	1,658

Baneberry	Door-to-Door Collection	280
BFI	Door-to-Door Collection	4,542
Lakeway Disposal	Door-to-Door Collection	1,530
Total Population Served		33,170

Solid waste collected by the County from the eight convenience center sites is transported by a County-owned front-end loader for disposal at the Jefferson County Landfill located in Dandridge. Jefferson City contracts directly with BFI of Tennessee for door-to-door collection service. Baneberry contracts directly with Lakeway Disposal Garbage Collection for door-to-door service. Solid waste collected by BFI and Lakeway Disposal is also transported to the County landfill. Dandridge and the Town of White Pine provide collection service with city-owned vehicles and transport solid waste for disposal at the County landfill. All four Cities service local businesses.

From the information gathered in the Needs Assessment, the existing collection system appears to service all residents in the Region. A regional map indicating the location of all facilities and service areas can be viewed on page II-13. The map illustrates the location of the existing eight (8) County owned and operated convenience centers and the service area of the door-to-door collection system for the four Cities.

C. SOURCE REDUCTION AND RECYCLING SYSTEMS

Within the Jefferson County region Jefferson City, Dandridge and Baneberry provides recycling options. Jefferson City provides curbside collection of recyclable materials that is commingled, separated by the operator into truck compartment bins. The city collects an average of 32 tons of recyclables, and 130 tons of yard waste annually. Dandridge has began curbside recycling for about six months and early participation suggest that the project will be very successful, no data is present at this time.

Some private businesses are involved in recycling. Lakeway Recycling has a drop-off facility as well as a buy-back service for cardboard and paper products. Lakeway Recycling also provides curbside pick-up of recyclables for the City of Baneberry. Several industries in Jefferson County have instituted private recycling programs, which are having some impact on the amount of waste being disposed of in the landfill. Also, private individuals throughout the county are participating in such activities as recycling and home composting.

A regional map indicating the location of all recycling collection sites and processing facilities can be viewed on page II-17.

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 Jefferson 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

From information available in the Needs Assessment, it could be concluded that the existing and planned landfill capacity for Jefferson County has not significantly changed. Tables II-8 through II-9, on the following pages, present specific data on the landfill capacity available in Jefferson County.

Table II-8

Existing Municipal Solid Waste Landfills in the Region

Jefferson County	Name of Landfill	Location	Permitted Capacity (Acres)	Current Rate of Waste Accepted (tons/day)	Remaining Capacity (tons)
Regional Total	Jefferson County Class 1 & IV Landfills	Highway 92, Dandridge	85	50*	2,106,000**

* Assumes 312 days per year.

** Assumes a design rate of 225 tons per day for 40 years.

The Jefferson County Class 1 & Class IV Landfills are expected to last approximately 40 years at a 225 tons per day rate (70,200 tons/year capacity). The existing disposal facility will last far beyond the 10-year planning period of the year 2003, and there are no apparent plans to expand the disposal facility at this time.

Table II-9 = Existing landfills expected to close before 2003.
Existing = None

Table II-10 =Planned Expansions and Planned Facilities which will operated more than ten years.
Planned Facilities = None

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	70,200		70,200
FY 1994	70,200		70,200
FY 1995	70,200		70,200
FY 1996	70,200		70,200
FY 1997	70,200		70,200
FY 1998	70,200		70,200
FY 1999	70,200		70,200
FY 2000	70,200		70,200
FY 2001	70,200		70,200
FY 2002	70,200		70,200
FY 2003	70,200		70,200

*Based on design rate of 225 tons/year at 312 days/year.

The location of all disposal facilities for the Region of Jefferson County can be viewed on the regional map on page II-17.

F & G. COSTS AND REVENUES FOR THE CURRENT SYSTEM

The following tables indicate the current system costs and revenues for Jefferson 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-10

Jefferson County FY'93 System Costs

Costs:	
Total Landfill:	\$723,138
Sanitation:	
Collection:	\$717,940
Total Sanitation:	\$717,940
Total Landfill & Sanitation Costs:	\$1,441,078

Total Landfill & Collection

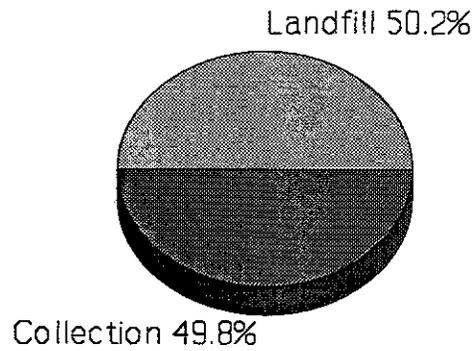


Table II-11**Jefferson County FY'93 Revenues**

Revenues:	Credits:	Base:	Rate:
Landfill:			
Refuse Disposal Charges:	\$700,638	Tipping Fees	\$35/ton
Undesignated Fund Balance:	\$20,000		
Miscellaneous Refunds:	\$2,500		
Landfill Total:	\$723,138		
Sanitation:			
Current Property Taxes:	\$604,200	Property Tax	\$.24/\$100
Trustees Collection:	\$25,440		
Clerk & Master Collection:	\$6,360		
Interest & Penalty:	\$2,500		
Utility (Paid In Lieu Of Tax):	\$1,900		
Bank Excise Tax:	\$1,900		
Refusal Disposal Charges:	\$5,640	Tipping Fees	\$35/ton
Undesignated Fund Balance:	\$70,000		
Total Sanitation:	\$717,940		
Total Landfill & Sanitation:	\$1,441,078		
Total County Revenue:	\$31,194,415		
Solid Waste Share of Total County Revenue:	4.6%		

Jefferson County FY 93 Revenues

Pie Chart

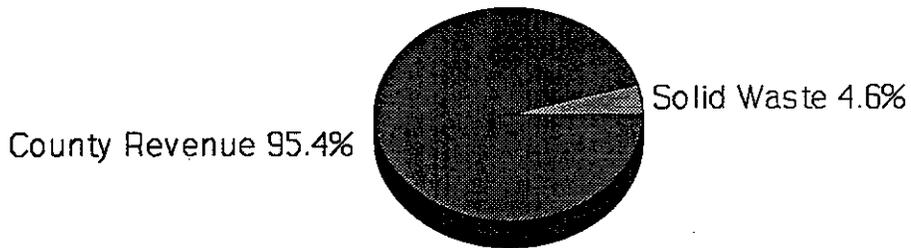
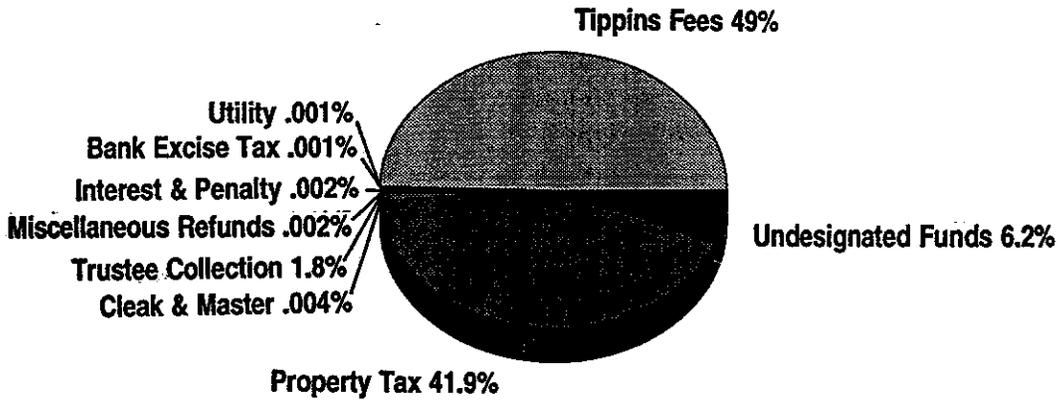


Table II-12

Baneberry System Costs and Revenues for FY'93

Baneberry FY'93				
COSTS:	Debits	Credits	Base	Rate
Oper., Maint., & Capital	\$5,607			
<i>Total</i>	\$5,607			
REVENUES:				
Gen. Revenue Appropriation		\$5,501	Prop. & other taxes	\$1.20/\$100
<i>Total (Solid Waste Share)</i>		\$5,501		
Net Difference	\$106			
Total City Revenue (TCR)		\$80,998		
Solid Waste Share of TCR		6.8%		

NOTE: Households served in Baneberry: 143

Baneberry
System Costs and Revenues

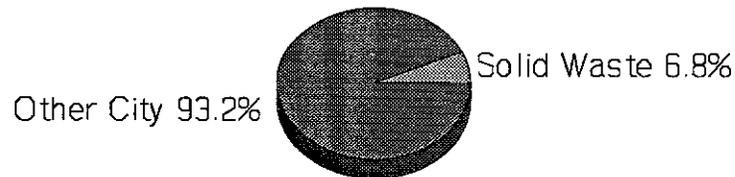


Table II-13

Dandridge System Costs and Revenues for Fiscal Year 1992-93

Dandridge FY'93				
COSTS:	Debits	Credits	Base	Rate
Operations & Maintenance	\$47,368			
Capital	0			
<i>Total</i>	\$47,368			
REVENUES:				
Sanitation Charges		\$2,000	Com/Ind Pickup	Varying Rates
Gen. Revenue Appropriation		\$45,368	Property Tax	\$.89/\$100
<i>Total (Solid Waste Share)</i>		\$47,368		
Net Difference		0		
Total City Revenue (TCR)		\$474,163		
Solid Waste Share of TCR		10.0%		

NOTE: Households served in Dandridge: 550

Dandridge System
Costs and Revenues

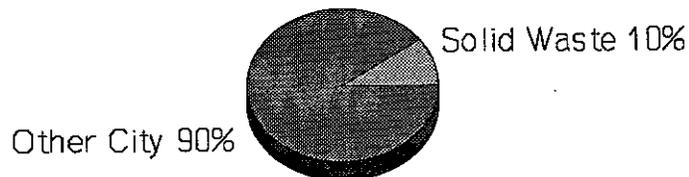


Table II-14

Jefferson City System Costs and Revenues for Fiscal Year 1992-93

Jefferson City FY'93				
COSTS:	Debits	Credits	Base	Rate
Operations & Maintenance	\$161,680			
Capital	0			
<i>Total</i>	\$161,680			
REVENUES:				
Refuse Collection Charge		\$19,200	Mo. Utility Bill	\$1/res.
Gen. Revenue Appropriation		\$142,480	Property Tax	\$.40/\$100
<i>Total (Solid Waste Share)</i>		\$161,680		
Net Difference		0		
Total City Revenue (TCR)		\$3,484,446		
Solid Waste Share of TCR		4.6%		

NOTE: Households served in Jefferson City: 1,835

Jefferson City

System Costs and Revenues

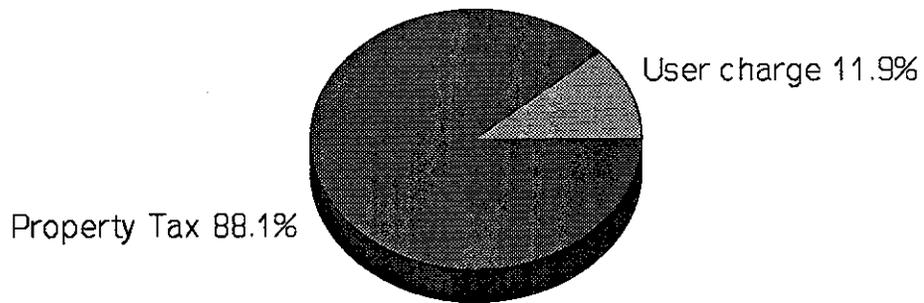
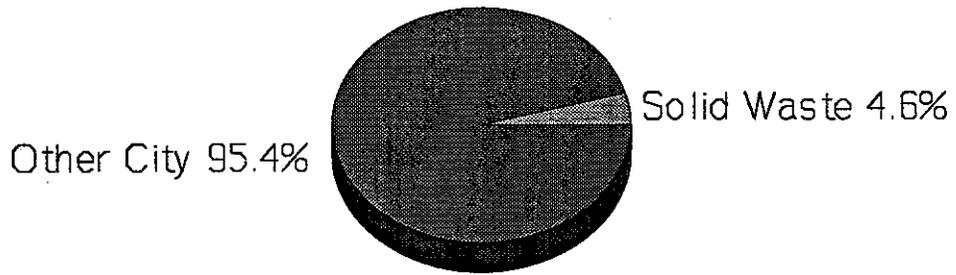


Table II-15

White Pine System Costs and Revenues for Fiscal Year 1992-93

White Pine FY'93				
COSTS:	Debits	Credits	Base	Rate
Operations & Maintenance	\$63,014			
Capital	0			
<i>Total</i>	\$63,014			
REVENUES:				
Gen. Revenue Appropriation		\$62,556	Prop. & other taxes	\$1.04/\$100
<i>Total (Solid Waste Share)</i>		\$62,556		
Net Difference	\$458			
Total City Revenue (TCR)		\$565,415		
Solid Waste Share of TCR		11.1%		

NOTE: Households served in White Pine: 800

White Pine System
Costs and Revenues

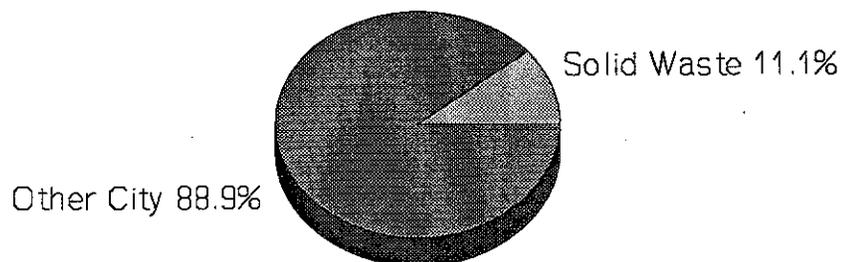


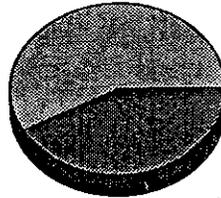
Table II-16

JEFFERSON COUNTY REGION FY'93 COSTS

Costs:	
Collection:	\$995,609
Landfill:	\$723,138
Total Regional Cost:	\$1,718,747

Jefferson County

Collection 57.9%



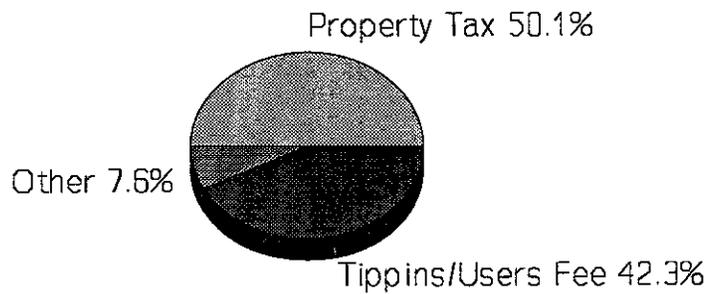
Landfill 42.1%

Table II-17

JEFFERSON COUNTY REGION FY'93 REVENUE

Revenue:	\$860,105
Tipping/User Fees:	\$727,478
Other:	\$130,600
Total Regional Revenue:	\$1,718,183

Jefferson County
Revenue



H. PUBLIC INFORMATION AND EDUCATION PROGRAMS

Jefferson County does not employ a full-time public information education coordinator. Jefferson City Recycling sponsors solid waste/recycling education programs using a series of different promotional techniques. Bill Reed of the University of Tennessee Agricultural Extension Office has also been involved with several education and reduction programs. He has worked with Jefferson County to reduce the amount of compostable material that is going to the landfill. The result has been a program with the local vocational technical school to build compost bins for any local citizen interested in composting. A composting manual to accompany the bins was also developed. Mr. Reed has also presented an assortment of slide and video presentations to civic groups.

Another primary source of education programs within the County is through the local school system. The Jefferson County Schools do not offer a recycling program as part of their curriculum. However, Jefferson Elementary collects aluminum cans, and other schools through individual teachers have classes concerning Recycling, waste reduction, pollution, and littering. Travelling exhibits also currently visit county schools. The Standard-Banner publishes 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-18.

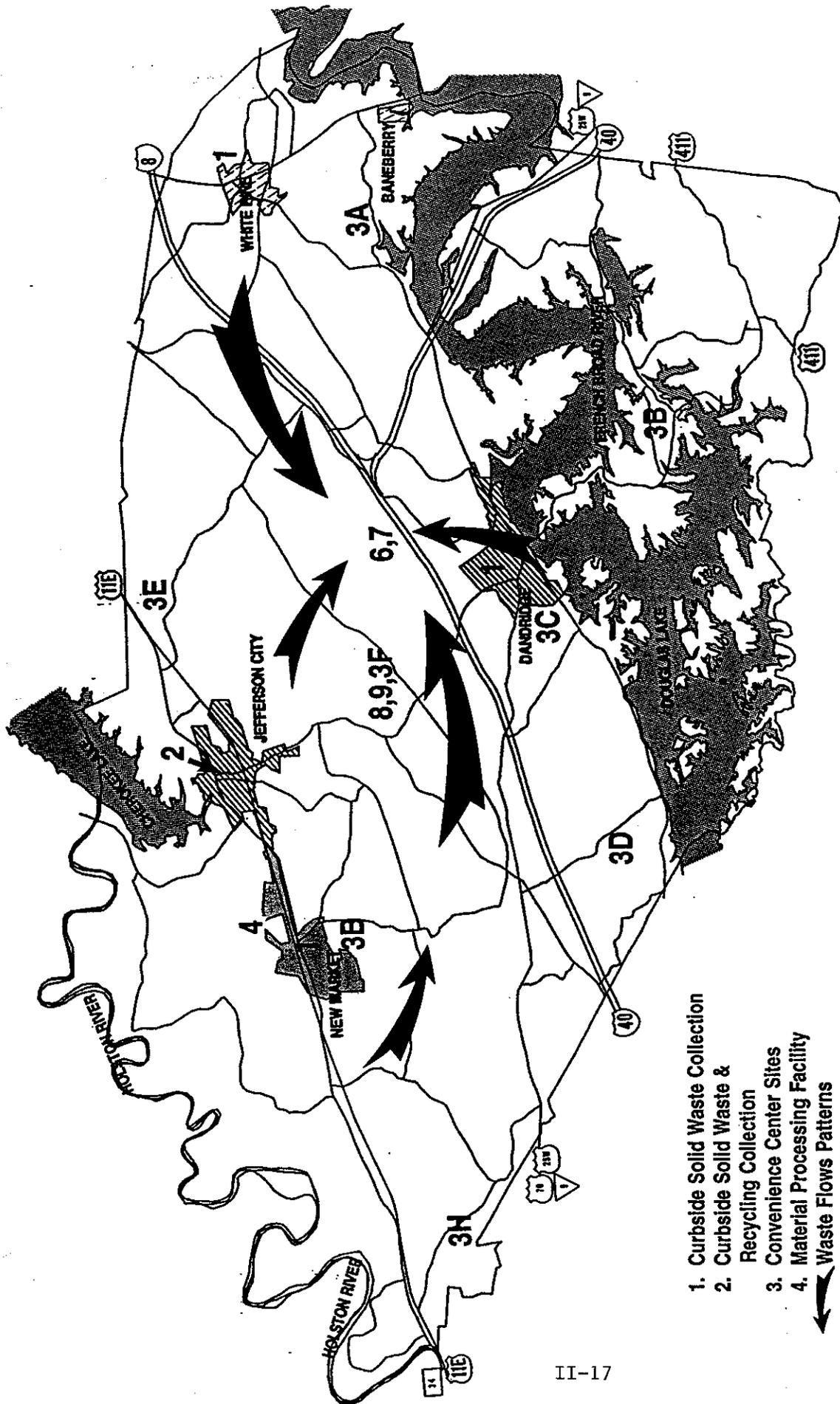
I. PROBLEM WASTES

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.

J. 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 Jefferson County:

1. Convenience center sites;
2. Solid waste collection service areas for the Cities;
3. Recycling collection sites;
4. Waste flow patterns for solid waste generated and disposed in the County;
5. Material processing facilities site (recycling);
6. Class I and Class IV landfill sites;
7. Educational program sites.



- 1. Curbside Solid Waste Collection
- 2. Curbside Solid Waste & Recycling Collection
- 3. Convenience Center Sites
- 4. Material Processing Facility
- 6. Class I Landfill
- 7. Class IV Landfill

**EXISTING SOLID WASTE MANAGEMENT SYSTEM
FOR THE REGION OF JEFFERSON COUNTY**

K. STRENGTHS AND WEAKNESSES OF EXISTING SYSTEM

25% Waste Reduction: From available information, it can be determined that in 1991 a large portion of the total amount of waste reduction in Jefferson County has been achieved through the recycling efforts of major commercial and industrial businesses. Additional tonnage was diverted as a result of Jefferson City's curbside program and the services of the Lakeway Recycling and Disposal Company.

The County does not offer recycling collection services presently and would need to establish at least one collection site for recyclable materials within its solid waste system by January, 1996. The new County landfill does include a Class IV demolition disposal site that can be utilized in diverting waste from the Class I site.

The existing and planned waste reduction resources available could allow Jefferson County (and its cities) to meet their 25% waste reduction per capita by December, 1995.

County-wide Collection Service: The cities' door-to-door collection programs together with the County's convenience center system provides collection services to nearly all households in Jefferson County. Approximately 14,620 residents in the County have private door-to-door collection service. The remaining number of residents (18,550) are serviced by the convenience centers owned and operated by Jefferson 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 curriculum. Jefferson Elementary collects aluminum cans, and individual teachers have classes concerning Recycling and other environmental issues.

The University of Tennessee's Agricultural Extension Services is actively presenting information of solid waste management to county and city officials, and to the local community. Jefferson City has established a yard waste composting program from information made available to them by the University of Tennessee Agriculture Extension Leader in Jefferson County. The City promotes the program in newspaper articles and brochures.

More effort is needed from the County (and its cities) to provide solid waste education to its resident and business populations.

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: With the new disposal facilities constructed to meet new state and federal regulations for landfill design, the County is assured of a ten-year disposal capacity.

**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 68-31-815(b)(4) and (5)]**

In this chapter the Region of Jefferson County defined probable growth trends and determined how much waste it will be required to manage in each year of the ten-year planning period (1994-2003). The Region of Jefferson County carried out a regional analysis following the same methodology and reporting format used by the District Needs Assessment to determine the demands of solid waste. In addition, 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 the components will be evaluated.

A. PROJECTED REGIONAL DEMAND

For the Region of Jefferson 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 1992 indicates a dramatic decrease, as seen from Table III-1 below. Based on this change, the 1992 per capita was used as the base rate to calculate the 10-year waste projections. It is believed that the base year figures (1989) represent a true reflection of the generation rate in Jefferson County. The extreme fluctuations in waste generation in 1991 & 1992 are due to waste exports to Hamblen County. All figures include Class IV landfill disposal and exported waste. 1993 does not yet include waste exported to the Class II landfill in Morristown (Tidi Waste).

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

Table III-1*

Year	1989	1991	1992	1993
Annual Tons	31,200	15,727	15,532	15,815
Population	33,500	33,170	33,307	33,307
Per Capita	.93	.47	.46	.48

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

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

Table III-2*

Quantity of Solid Waste Requiring Disposal (tons)

Jefferson County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	31,248	31,400	31,521	31,661	31,794	31,927	32,065	32,149	32,233	32,319

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

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

Table III-3*

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

Jefferson County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	32,380	32,569	32,727	32,906	33,078	33,252	33,433	33,561	33,690	33,822

* Methodology from Table IV-3 in Needs Assessment for Jefferson 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**

Jefferson County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	23,436	23,550	23,641	23,746	23,846	23,943	24,049	24,112	24,175	24,239

* Methodology from Table IV-4 in Needs Assessment of Jefferson County Profile, as extended. Projected waste for regulatory and special factor adjustments has been integrated into Table III-4.

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

B. **REGIONAL DEMAND/SUPPLY**

Table III-5 is not applicable to Jefferson County.

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

Table III-7 is not applicable to Jefferson 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)

Jefferson County	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total	23,436	23,550	23,641	23,746	23,846	23,943	24,049	24,112	24,175	24,239

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

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

This projected amount of waste, in Table III-8 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.

**Table III-9
Projected Demand and Supply, and Identification of Potential Shortfalls or Surplus in
Disposal Capacity (in tons/year)**

Year	DEMAND: Tons of Waste Requiring Disposal	SUPPLY: Existing & Planned Capacity*	Surplus (+)	Shortfall (-)
1994	23,436	70,200	46,764	
1995	23,550	70,200	46,650	
1996	23,641	70,200	46,559	
1997	23,746	70,200	46,454	
1998	23,846	70,200	46,354	
1999	23,943	70,200	46,257	
2000	24,049	70,200	46,151	
2001	24,112	70,200	46,088	
2002	24,175	70,200	46,025	
2003	24,239	70,200	45,961	
Total	238,747**		463,263	

* Based on design rate of 225 tons/year at 312 days/year.

** Estimated capacity used in 10 year period = 3.5 years of total 40 years estimated capacity of landfill.

C. PRELIMINARY SYSTEM DESIGN

The elements of an integrated waste management system to be considered in the Region of Jefferson County regional plan include waste reduction, recycling and landfilling. The percentages of the total projected quantity of waste to be handled by each system component by 1995 is estimated in the Table below:

**Table III-10
Percentage of Total Waste Stream Managed in Planned System**

System Component	% of Total Waste Stream Managed in Planned System Design by 1995	Tons of Total Waste Stream Managed in Planned System Design by 1995	% of Total Waste Stream Managed in Existing System Design
Waste Reduction:			
Class IV	16.6	5,400	22.0
Class II (Hamblen)	7.5	2,449	10.0
Recycling	3.6	1,170	1.2
Class I	72.3	23,550	66.8
Total:	100.0	32,569	100.0

Note: Actual diversion of waste to Class IV in 1993 is estimated at 5,400 TPY (4,061 TPY in 1992). Class I disposal in 1993 is estimated at 16,461 TPY (12,346 TPY in 1992).

From the previous table, it can be seen that there is little predicted change between the existing and planned percentages of total waste stream managed by each system component. With additional recycling programs planned for the County and Cities, an estimated increase is expected in recovering recyclable materials in the existing and future recycling collection programs. Commercial and industrial recycling efforts in the County are expected to continue diverting a large percentage of the total waste stream from the landfill.

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 options 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 listed in the planning guidelines.

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 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 68-31-861(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 68-31-861(a)]; and Section 14(b)10. [T.C.A. Section 68-31-815(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 68-31-861(f)]

A. ESTABLISHING A BASE YEAR QUANTITY

Table IV-1

Quantity of Solid Waste Generated and Disposed in Calendar 1989

Jefferson County	Tons Disposed	Population (1989)	Waste Disposed Per Capita
Regional Total	31,200	33,500	.93

This data is available in the UT Report entitled "Managing Our Waste: Solid Waste Planning in Tennessee," published in February, 1990.

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 used:

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

$$.93 \times .25 = \underline{.2325}$$

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.

$$\begin{aligned} & \text{1995 target per capita reduction (tons/person/year)} \times \text{1995 population (persons)} \\ & = \text{1995 target reduction in tons/year} \\ & .2325 \times 33,764 = \underline{7,850 \text{ target reduction in tons/year}} \end{aligned}$$

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

As indicated in Chapter III for 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 divert solid waste disposed at the County's Class I landfill to a permitted Class IV landfill in the Region, and a Class II landfill located in Hamblen County. The total targeted amount of tons for Jefferson County to reduce in 1995 is 9,019 tons. (An additional 3.2% is also added to reflect annual economic growth in Jefferson County for 1995).

Recycling Program

A quantitative allocation of the 1995 waste reduction target by material (i.e., glass, paper, yard waste, etc.) by economic sector (residential, commercial, institutional, and industrial) 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 (Cities and County)		Private Sector (Commercial, Institutional & Industrial)	Total Tons
	Recyclables *	Yardwaste	Recyclables*	
Year 1994	689	30	443	1,162
1995	690	30	450	1,170
1996	690	30	455	1,175
1997	691	30	460	1,181
1998	694	30	463	1,187
1999	698	30	465	1,193
2000	702	30	468	1,200
2001	704	30	470	1,204
2002	707	30	472	1,209
2003	710	30	474	1,214

* 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 on the following page.

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		1,162	7,782			8,944
1995		1,170	7,849			9,019
Subtotal		2,332	15,631			17,963
1996		1,175	7,911			9,086
1997		1,181	7,979			9,160
1998		1,187	8,045			9,232
1999		1,193	8,114			9,307
2000		1,200	8,184			9,384
2001		1,204	8,245			9,449
2002		1,209	8,306			9,515
2003		1,214	8,371			9,585
TOTAL		11,895	80,786*			92,681

* Includes diversion to Jefferson County's Class IV Landfill, and Tidi Waste's Class II Landfill in Hamblen County.

**Table IV-4
Quantitative Material Allocation (tons/year)**

Material	Quantity of Waste	Percent of Total
Yard Waste	358	4%
Construction/Demolition	3,935	44%
Tires	537	6%
Glass	626	7%
Aluminum Cans	179	2%
Ferrous Metals	716	8%
Paper	2,057	23%
Plastic	537	6%
Total	8,944	100%

**Table IV-5
Source Sector (tons/year)**

Source Sector	Quantity of Waste	Percent of Total
Residential	500	11%
Commercial/Industrial	4,167	89%

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

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

<u>Program</u>	<u>Number of Staff</u>
<u>Class I/IV Landfill</u>	
Coordinator*	1 full-time
Operator	5 full-time
Attendant	1 full-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 and education program.

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

Budget

A ten year budget for operation and maintenance of the existing Class I & IV landfills owned and operated by Jefferson county will be provided in Chapter VIII.

Funding Plan

The Region's financing plan for operating and maintenance costs will include appropriations from the general fund and revenues from the tipping fee for the Class IV landfill (\$24/ton). Detailed information on the financing plan for the waste reduction program will be addressed in Chapter VIII and revisited in Chapter XI.

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	•									
Data Collection / Annual Reports	•									
Purchase New Equipment						•				
Plan Updates							•			

• = when implementation begins.

* Class IV Landfill has been in operation since 1992.

F. Responsibility For Implementing The Plan.

The responsibility for implementing the waste reduction 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. The County will also implement a regional recycling program for residential use.

The County has been operating a Class IV landfill since 1992 and diverting construction and demolition waste from the County-owned and operated Class I Landfill. The County will continue to operate the Class IV landfill for waste reduction purposes.

The first milestone for meeting the 25% waste reduction goal will occur by December 31, 1995. The second milestone occurs during the period when the plan is to be updated. The County will be primarily responsible for documenting the progress of the Region in achieving and maintaining the waste reduction goal identified in this chapter. A more detailed look at waste reduction will be shown in Chapter VI on Recycling and in Chapter 8 on Class IV landfill.

G. Regional Data Collection / Annual Progress Reports

As per T.C.A. Sections 68-211-863(b), the Region of Jefferson 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 annual reports by quantities and types of recyclables collected in the Region by the Solid Waste Coordinator. Annual progress reports, utilizing information gathered in Tables IV-2 and IV-3, will be submitted to the State Planning Office. Annual reports will include the amount of waste reduced by waste diverted to the Class IV and II landfills.

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. 68-31-815(b)(2)(B)].

A. EXISTING COLLECTION SYSTEM

The existing collection system (as described in Chapter II) for the Region of Jefferson County is compared below with the standards established by the Convenience Center Rule, 1200-1-7, for number, location and design of collection facilities (convenience centers) [T.C.A. 68-31-851(b)]. Unserved areas in the region are also identified.

The existing collection services and facilities in the planning region of Jefferson County (County Profile of the District Needs Assessment, Chapter V, A.1-18.) are provided by the County, the municipalities of Jefferson City, Dandridge, White Pine and Baneberry, and several private haulers operating in the County. All four cities offer door-to-door collection to their residents, and the County offers solid waste collection services through a network of convenience center sites. Each convenience center is open to the public for 44 hours weekly. Operating hours are posted at each site entrance.

The number of households served in the Region of Jefferson County by the combined solid waste collection systems is listed below:

<u>Service Provider</u>	<u>Solid Waste Collection System</u>	<u>Number of Residents Served</u>
County	8 Convenience Centers	18,550
Jefferson City	Door-to-Door Collection	5,100
Dandridge	Door-to-Door Collection	1,510
White Pine	Door-to-Door Collection	1,658
Baneberry	Door-to-Door Collection	280
BFI	Door-to-Door Collection	4,542
Lakeway Disposal	Door-to-Door Collection	1,530
	Total Population Served	33,170

Solid waste collected by the County from the eight convenience center sites is transported by a County-owned front-end loader for disposal at the Jefferson County Landfill located in Dandridge. Jefferson City contracts directly with BFI of Tennessee for door-to-door collection of its citizen's waste. Baneberry contracts directly with Lakeway Disposal Garbage Collection for door-to-door collection of its citizen's waste. Solid waste collected by BFI and Lakeway Disposal is also transported to the County landfill. Dandridge and White Pine provide collection service with city-owned vehicles and transport solid waste for disposal at the County landfill. All four cities service local businesses. However, besides a few private haulers, the City of New Market provides no solid waste collection.

From the information gathered in the Needs Assessment, the existing collection system appears to service all residents in the Region. A regional map indicating the location of all facilities and service areas can be viewed on the system map in Chapter XI. The map illustrates the location of the existing eight (8) County owned and operated convenience centers and the service area of the door-to-door collection system for the four cities.

Number of Convenience Centers Required in Jefferson County

As per Convenience Center Rule (1200-1-7), the minimum level of solid waste collection service is :

- A. Household collection - A county shall be deemed to have met the minimum level of service if at least 90% of all residents have access to household collection.
- B. Convenience centers - A county shall be deemed to have a minimum level of service if convenience centers are established.

The minimum number of centers shall be established as follows:

- 1) The service area in square miles divided by 180 square miles or:

273.8 square miles - 10 square miles (four Cities)
- 7 square miles (public parks) =
256.8 square miles - 180 square miles = 1.4

- 2) The service area population divided by 12,000.

33,170 population - 14,620 people served = 18,550 people unserved
18,550 - 12,000 = 1.5

Presently, the County is operating a Convenience Center system in the unincorporated areas of the County. The following pages summarize an inventory of the Convenience Center sites, and their location, according to the minimum level of compliance with the Convenience Center Rule 1200-1-7.

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
- 2) integrate recycling program with collection system
- 3) expand the collection services for the next 10 years
- 4) upgrade permitted convenience center sites to meet regulations
- 5) cost-effectiveness

The total regional needs in Jefferson County to provide adequate service to all residents has been addressed with the existing collection services outlined on the previous pages. Given the required number of convenience centers by state regulations, the County has already addressed the unserved areas in Jefferson County with the construction of the existing eight (8) convenience center sites.

The existing collection system in Jefferson County, including the four Cities, will successfully accommodate recycling services. Dandridge and Jefferson City offer curbside recycling services to all city residents through a contract with BFI of Tennessee. The County will integrate a recycling collection program within the convenience center system.

The existing collection system will need to expand to meet the changing needs of the County over the next 10 years. Solid waste is presently being disposed of in 6 cubic yard dumpsters at the County convenience centers. Not only will the old containers need to be replaced within the 10 year period, but the County may find a need to utilize compaction equipment in order to minimize loading time and transportation costs.

From the Table on the previous page, it can be seen that several convenience center sites will need to be upgraded to meet state regulations.

The most important regional need to provide adequate service to all residents is cost-effectiveness. The County is faced with numerous financial obligations during the 10-year planning phase.

C. COLLECTION SYSTEM IMPLEMENTATION

Table V-2

Ten Year Implementation Schedule for Collection Program

Collection	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Continue Door to Door	X										Cities & Private Haulers	Varies	Solid Waste Fee/ Property Tax
Establish Standards for Private Haulers		X									State	N/A	N/A
Bring Convenience Centers up to State Standards		X	X	X	X	X	X	X	X		County	\$6,000	State Grant
Manned Convenience Centers	X										County	\$114,000	General Fund
Certification of Staff			X								State	N/A	N/A
Plan Update	X					X					Solid Waste Board	N/A	N/A
Annual Reports	X	X	X	X	X	X	X	X	X	X	Solid Waste Coordinator	\$28,000	Tipping Fees

Upgrading the convenience center system should begin in 1995 with the purchase of communication equipment. Run-off control will be established for several sites as needed, and convenience center permits will be obtained by the County through the State of Tennessee Department of Environment and Conservation, Division of Solid Waste Management.

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 Jefferson County should include:

<u>Program</u>	<u>Number of Staff</u>
Convenience Center Operators	8 full-time (44 hrs/week)
Transportation	1 full-time (40 hrs/week)

*The solid waste coordinator will provide and report on data collection.

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)].

E. 10-YEAR BUDGET

A ten year budget, including both capital and annual operating costs, has been prepared 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-3

Capital and Operating Costs for Collection/Transportation System

Program	1984	1985	1986	1987	1988	1989	2000	2001	2002	2003
Convenience Centers:										
Capital Costs: :										
Rent:	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200	\$16,200
Construction:	\$ 6,200									
Equipment:	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143	\$17,143
Total Capital Costs:	\$39,543	\$33,343	\$33,343	\$33,343	\$33,343	\$33,343	\$33,343	\$33,343	\$33,343	\$33,343
Operational Costs:										
Personnel:	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346	\$114,346
Transportation:	\$ 34,304	\$ 34,304	\$ 34,304	\$ 34,304	\$ 34,304	\$ 34,304	\$ 34,304	\$ 34,304	\$ 34,304	\$ 34,304
Landfill Fee:	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240	\$240,240
Sub-Total:	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890	\$388,890
3.4% CLI		\$ 13,222	\$ 26,445	\$ 39,667	\$ 52,889	\$ 66,111	\$ 79,334	\$ 92,556	\$ 105,778	\$ 119,000
Total Operation Costs:	\$388,890	\$402,112	\$415,335	\$428,557	\$441,779	\$455,001	\$468,224	\$481,446	\$494,668	\$507,890
Total Costs for Convenience Centers:	\$428,433	\$435,455	\$448,678	\$461,900	\$475,122	\$488,344	\$501,567	\$514,789	\$528,011	\$541,233

F. FUNDING PLAN

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

The Region will also fund annual operating and maintenance costs through appropriations from the general fund, as well as utilizing revenues generated from the tipping fees.

Table V-4

Annual Funding Plan for Collection Program

Sources of Revenue	Amount of Revenue	Proportion of Individual Source
Tipping Fee	\$17,143	9%
State Grant	\$6,000	3%
General Fund	\$171,857	88%
Total	\$195,000	100%

Note: State Grant will be lump sum of \$50,000.

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 Jefferson County is available on the system map provided in Chapter XI. Arrows are used to indicate probable waste flow patterns within/or between the Region and adjoining regions.

CHAPTER VI
RECYCLING

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 Jefferson 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,
- 4) cost-effectiveness.

Jefferson City provides curbside recycling to city residents, and transports collected recyclables for processing and marketing to the material processing center, Lakeway Recycling, in New Market. In 1992, the City diverted 1.7% of the total county waste stream from the landfill (270 tons recyclables; 30 tons yard waste). Dandridge also offers curbside collection of recyclables to all households through a contract with BFI of Tennessee. The amount of material diverted is unknown at this time.

The County plans to integrate its existing drop-off collection program for recyclable materials into the existing convenience center system. Compartmentalized containers will be located at four (4) convenience center sites. Materials collected will include: newspaper, plastic, glass containers, aluminum cans and cardboard. Recyclable material will be collected from the convenience center sites by the sanitation workers and transported to the recycling center for processing. Lakeway Recycling Center in New Market will be considered for the possible processing site of recyclable material in the County.

Commercial and industrial businesses in Jefferson County also divert recyclable materials from the waste stream. In 1991, major businesses in the County diverted an estimated 45% of the total waste stream.

With combined public and private recycling efforts, the regional goal of diverting 4% of the total waste stream through recycling can be successfully obtained.

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

Planned Recycling Programs in Region of Jefferson County

Sector	Program Type	Entities Served	% of Waste Stream	Service Area
County	Drop-off	18,550 residents	1.5	County
Jefferson City	Drop-off	5,100 residents	.4	City
Dandridge	Curbside	1,310 residents	.4	City
Commercial/ Industrial	In-house Waste Reduction	Approximately 6 businesses	2.0	City & County
Total			4.0	

Four (4) of the county convenience centers will have 1 roll-off compartmentalized container for newspaper, plastic containers, aluminum cans and cardboard. 55-gallon drums will be utilized for colored glass containers (green, white and brown). The County will need to purchase five (5) compartmentalized roll-off 20 cu.yd. containers and one transfer trailer with a hoist to haul the material directly to the processing center. One empty compartmentalized container will always be exchanged for a full container during pickup at the convenience center sites.

The four (4) planned sites should be phased in over the ten year period. The first site should be in operation by December, 95. Although, the final selection site of the recycling centers will be made by the County Commission, the Solid Waste Board has looked at Leadrains, Dandridge, Backtown and Straw Plains as possible convenience center sites that may be integrated into the recycling drop-off program in future years. A map of the planned drop off collection sites is provided in Chapter XI.

The Lakeway Recycling Center, located in New Market, Tennessee, is owned by Curtis Roberts. The Center operates as a drop-off and material processing facility for recyclable materials collected in Jefferson County. The Center services the recycling programs of Jefferson City, Jefferson County, area businesses, and surrounding counties. The Center collects, processes and markets cardboard, newspaper, glass, plastic containers, aluminum and steel cans, scrap aluminum and metal, batteries, egg cartons and plastic bags. The location of the Center is provided on the system map in Chapter XI.

The Center presently transports and markets recyclables processed directly to end-users or secondary material processors in order to economically participate in the market. The Center annually reports the quantities and types of recyclable materials collected to participants in municipal programs. This information will be reported to the Region. 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 Jefferson County, the Region will initiate a waste exchange program for recovered materials from the commercial and industrial sector.

In order to educate children and adults about source reduction and recycling, and to encourage broad participation in a regional recycling program, a Keep America Beautiful program is being proposed in the County.

C. TOTAL 10-YEAR STAFFING AND TRAINING NEEDS

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

<u>Program</u>	<u>Number of Staff</u>
Drop-off Locations	4 full-time (44 hrs/week)*
Transportation	1 part-time*
Marketing	1 full-time**

* Same staff utilized at convenience center sites.

** Solid Waste Coordinator will handle all marketing, data collection and plan updates for the recycling program.

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

Recycling Program	1995	1996	1997	1998	1999	2000	2001	2002	2003
Capital Costs:									
Equipment:	\$8,000		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Sinking Fund:		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Total Capital Costs:	\$8,000	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Operation Cost:									
Personnel:*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Transportation:	\$3,224	\$3,224	\$3,224	\$3,224	\$3,224	\$3,224	\$3,224	\$3,224	\$3,224
Publicity & Education:	\$1,500	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Sub-Total:	\$4,724	\$4,224	\$4,224	\$4,224	\$4,224	\$4,224	\$4,224	\$4,224	\$4,224
3.4% CLI:		\$144	\$287	\$431	\$574	\$718	\$862	\$1,005	\$1,149
Total Operation Costs:	\$4,724	\$4,368	\$4,511	\$4,655	\$4,798	\$4,962	\$5,086	\$5,229	\$5,373
Total Capital & Operation Costs:	\$12,724	\$5,368	\$9,511	\$9,655	\$9,798	\$9,942	\$10,086	\$10,229	\$10,373

In 1994 no money was anticipated being spent for recycling and for that reason the 1994 column was left off.

* Personnel will be handled by the Convenience Center operators.

Budget Information

Assumptions:

- 1) Containers - 20 cu.yd. 4 compartments = \$4,400
- 2) Recyclables transported to Lakeway Recycling Center.
- 3) Transportation = $\text{Total Annual Miles (5,200)} \times \text{operating cost per mile (.52)} = \text{Transfer Truck Cost}$
 $\text{Total Annual Miles} \times \text{operating cost per mile (.10)} = \text{Trailer Cost}$
- 4) Sinking Fund = Based upon 7 year replacement.

E. IMPLEMENTATION SCHEDULE

Table VI-3

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 wigh Convenience Centers		X		X	X	X	X	X	X	X	County	\$4,000	General Fund /Tipping Fees
Integrate Recycling with Door-to Door Pickup	X	X									Cities / Private Hualers	\$20,000	Solid Waste Fee
Educate to Public		X									Eduation Committee	\$1,500	State Grant
Purchase Recycling Equipment		X									County / Cities	\$4,000	State Grant
Join R.M.C.E.T.		X									County	\$10,000	Sale of Recycleables
Communicate with Office of Cooperative Marketing		X									Solid Waste Board	N/A	N/A
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports and Data Collection	X	X	X	X	X	X	X	X	X	X	Solid Waste Coordinator	\$28,000	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 information gathered from these documents annually 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, a 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.

Table VI-4

Annual Funding Plan for Recycling Program

Sources of Revenue	Amount of Revenue	Propoortion of Individual Source
Tipping Fee	\$2000	20%
General Fund	\$3000	30%
State Grants	\$2500	25%
Sale of Recyclables	\$2500	25%
Total	\$10,000	100%

G. LOCATION OF EXISTING AND PLANNED REGIONAL RECYCLING INFRASTRUCTURE

The approximate location of the existing and new elements of the regional recycling program is 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 Jefferson County. Due to the small percentage of yard waste disposed at the landfill, there is little need for a composting facility. Many of the residents in the County (including Jefferson City and Dandridge) manage yard waste generated on their property without need for municipal disposal.

In addition, the County is operating a Class IV landfill for the diversion of construction and demolition waste from the Class 1 landfill. Details on the waste reduction program can be found in Chapter IV.

CHAPTER VIII**DISPOSAL CAPACITY****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 region of Jefferson County currently has a Class I and Class IV landfill that should give them at least 30+ years of service. The following two tables can illustrate the disposal capacity for the region of Jefferson County within the next 10 year planning period.

Table VIII-1**Disposal Capacity (tons per year) - County**

Year	Demand: Tons of Waste Requiring Disposal	Supply: Existing & Planned Capacity	Surplus	Shortfall
1993	15,815	70,200	54,185	
1994	23,436	70,200	46,764	
1995	23,550	70,200	46,650	
1996	23,641	70,200	46,559	
1997	23,746	70,200	46,454	
1998	23,846	70,200	46,354	
1999	23,943	70,200	46,257	
2000	24,049	70,200	46,151	
2001	24,112	70,200	46,088	
2002	24,175	70,200	46,025	
2003	24,239	70,200	45,961	

Table VIII-2

Projected Net Disposal Capacity (Tons per Year)- Region

Year	Jefferson County	Regional Total
1993	15,815	15,815
1994	23,436	23,436
1995	23,550	23,550
1996	23,641	23,641
1997	23,746	23,746
1998	23,846	23,846
1999	23,943	23,943
2000	24,049	24,049
2001	24,112	24,112
2002	24,175	24,175
2003	24,239	24,239

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. The Region of Jefferson County was one of the first landfills in East Tennessee to be constructed under the new Subtitle D regulations and for that reason has experienced higher capital and operation costs than neighboring landfills. This has caused some loss of waste to landfills outside the region that have lower tipping fees. However, in 1996 all landfills will be required to fall under the Federal Subtitle D regulations, making all landfill costs more comparable. This should give the Region of Jefferson County an increase in the amount of waste disposed at the landfill. The following budget outlines the expense of operating a Class I and Class IV landfill and also the cost of closure and post-closure care of these landfills.

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 Jefferson County Class I and Class IV landfills under new State and Federal Regulations.

Table 1

Capital and Operating Costs for Jefferson County Class I and Class IV Landfills (Dollars)

CLASS I AND CLASS IV LANDFILLS	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<i>Capital Costs</i>										
CLOSURE COSTS (c)	24,694	25,929	27,225	28,586	30,015	31,516	42,434	44,558	46,784	49,123
POST CLOSURE CARE (a)	28,600	28,600	28,600	28,600	28,600	28,600	28,600	28,600	28,600	28,600
EQUIPMENT/FUEL/OIL (e)	175,300	176,942	178,636	180,384	182,188	193,900	195,822	197,805	199,852	201,964
BONDS/DEBT SERVICE	145,726	145,726	145,726	145,726	145,762	145,726	145,276	145,726	145,726	145,726
MATERIALS (d)	87,300	90,094	92,977	95,952	99,022	102,191	105,461	108,836	112,319	115,913
POST CLOSURE (HWY 92 FACILITY) (b)	179,928	183,924	88,121	92,527	97,153	102,011	107,111	112,467	118,090	123,995
TOTAL CAPITAL COSTS	641,548	651,215	561,285	571,775	582,740	603,944	624,704	637,992	651,371	665,321
<i>Operating Costs:</i>										
SALARIES/WAGES/BENEFITS (d)	169,350	174,770	180,360	186,130	192,090	198,240	204,580	211,130	217,890	224,860
OVERHEAD/ADMIN/MISCELL (d)	87,460	90,260	93,150	96,130	99,200	102,370	105,650	109,030	112,520	116,120
TESTING	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000	42,000
ENGINEERING (d)	16,000	16,512	17,040	17,585	18,148	18,729	19,946	20,584	21,243	21,923
TOTAL OPERATING COSTS	314,810	323,542	332,550	341,845	351,438	361,339	372,176	382,744	393,653	404,903
TOTAL CAPITAL & OPERATING COSTS	956,358	974,757	893,835	913,620	934,178	965,283	996,880	1,020,736	1,045,024	1,070,224

(a) Amount required annually for 40 years to provide 30 years of post closure costs for the new landfill.
 (b) 1994 and 1995 include \$100,000 each for post closure care of the Class IV portion of the Highway 92 facility
 (c) these figures include 5.0 percent growth multiplier
 (d) these figures include 3.2 percent growth multiplier
 (e) portions of these figures include 3.2 percent growth multiplier

APPENDIX B

FUND 207 SOLID WASTE DISPOSAL

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 \$ 20,000.00

ESTIMATED OPERATING REVENUES (Revenues directly related to the fund's primary activities. They consist primarily of user charges for goods & services.)	REVENUES	RECEIPTS
--	----------	----------

CHARGES FOR CURRENT SERVICES

GENERAL SERVICE CHARGES

43103	Sale of Methane Gas	_____	_____
43104	Sale of Electricity	_____	_____
43105	Sale of Steam	_____	_____
43110	Tipping Fees	\$ 700,638.90	_____
43111	Surcharge - State	_____	_____
43113	Surcharge - General	2,500.00	_____
43114	Solid Waste Disposal Fee	_____	_____
	<u>RECURRING ITEMS</u>		
44145	Sale of Recycled Materials	_____	_____
	TOTAL OPERATING REVENUES	\$ 723,138.90	_____

ESTIMATED OPERATING EXPENSES (Expenses related directly to the fund's primary activities.)	EXPENSES	DISBURSEMENTS
---	----------	---------------

SANITATION SERVICES

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	(_____)	(_____)
161	Secretary	(_____)	(_____)
162	Clerical Personnel	(_____)	(_____)
164	Attendants	(_____)	(_____)
187	Overtime Pay	(_____)	(_____)
188	Temporary / Part-Time Personnel	(_____)	(_____)
189	Other Salaries & Wages	(137,000.00)	(_____)
201	Social Security	(10,480.50)	(_____)
202	Handling & Administrative Costs	(_____)	(_____)
204	State Retirement	(9,370.80)	(_____)
205	Employee & Dependent Insurance	(11,700.00)	(_____)
206	Life Insurance	(_____)	(_____)

FUND 207 SOLID WASTE DISPOSAL

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	(800.00)	()
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	(2,000.00)	()
317	Data Processing Services	(127.50)	()
318	Debt Collection Services	()	()
320	Dues & Memberships	()	()
321	Engineering Services	(16,000.00)	()
322	Evaluation & Testing	(6,000.00)	()
325	Fiscal Agent Charges	()	()
327	Freight Expenses	()	()
328	Janitorial Services	()	()
329	Laundry Services	()	()
330	Operating Lease Payments	()	()
331	Legal Services	(2,000.00)	()
333	Licenses	()	()
334	Maintenance Agreements	()	()
335	Maintenance & Repair Services - Buildings	()	()
336	Maintenance & Repair Services - Equipment	(98,500.00)	()
337	Maintenance & Repair Service - Office Equipment	()	()
338	Maintenance & Repair Services - Vehicles	()	()
348	Postal Charges	()	()
349	Printing, Stationery & Forms	()	()
351	Rentals	(25,500.00)	()
353	Tow-In Services	()	()
355	Travel	()	()
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	(65,000.00)	()
410	Custodial Supplies	()	()

FUND 207 SOLID WASTE DISPOSAL

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	(35,000.00)	()
414	Duplicating Supplies	()	()
415	Electricity	()	()
416	Equipment Parts - Heavy	()	()
417	Equipment Parts - Light	()	()
418	Equipment & Machinery Parts	()	()
420	Fertilizer, Lime, & Seed	(2,000.00)	()
423	Fuel Oil	()	()
424	Garage Supplies	()	()
425	Gasoline	(4,800.00)	()
426	General Construction Materials	()	()
427	Ice	()	()
433	Lubricants	(11,500.00)	()
434	Natural Gas	()	()
435	Office Supplies	(2,250.00)	()
437	Periodicals	()	()
438	Pipe	(2,000.00)	()
439	Pipe - Concrete	()	()
440	Pipe - Metal	()	()
442	Propane Gas	(1,800.00)	()
443	Road Signs	()	()
445	Sand	()	()
446	Small Tools	()	()
450	Tires & Tubes	(7,500.00)	()
451	Uniforms	()	()
452	Utilities	(3,800.00)	()
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	(500.00)	()
461	Liner Materials	()	()
462	Wire	()	()
463	Testing	(36,000.00)	()
464	Top Soil	()	()
465	Clay	()	()
466	Synthetic Membrane	()	()
467	Fencing	()	()
468	Chemicals	(3,000.00)	()
499	Other Supplies & Materials	(4,000.00)	()
502	Building & Contents Insurance	(1,100.00)	()
503	Excess Risk Insurance	()	()
505	Judgements	()	()
506	Liability Insurance	(5,200.00)	()
507	Medical Claims	()	()
508	Premiums on Corporate Surety Bonds	()	()

FUND 207 SOLID WASTE DISPOSAL

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	(8,358.65)	()
511	Vehicle & Equipment Insurance	(13,000.00)	()
512	Withholding Tax	()	()
513	Workmen's Compensation Insurance	(12,000.00)	()
* 514	Depreciation (This expense does not decrease cash)	(100,000.00)	()
515	Liability Claims	()	()
517	Surcharge	(23,500.00)	()
599	Other Charges	(59,851.45)	()

(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	(\$ 723,138.90)	

OPERATING INCOME (LOSS)

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

B. Disposal Strategy

To reiterate, the region of Jefferson County has a Class I and Class IV landfill that should last 30+ years. The Regional Solid Waste Board has no intentions at this time in allowing outside region waste to be disposed of at the Class I and Class IV facilities. However, an implied agreement with Hamblen County may result in Hamblen County bringing their waste to Jefferson County for a short time, which will allow Hamblen County to finish the construction of its new Class I landfill.

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
Continue to Operate Class I Area Landfill Within Current Guidelines	X										County	\$925,000	Tipping Fee/ Property Tax
Apply for Permit to Upgrade Landfill					X						County	\$25,000	Tipping Fee
Construct New Cell						X					County	\$300,000	Tipping Fee
Consider Transferring Ownership to a Solid Waste Authority			X								County	N/A	N/A
Training Personnel	X										State	N/A	N/A
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports	X	X	X	X	X	X	X	X	X	X	Solid Waste Coordinator	\$28,000	Tipping Fee

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 68-31-842]

- A. Bill Reed of the University of Tennessee Agricultural Extension Office has been involved with several education and reduction programs. He has worked with Jefferson County to reduce the amount of compostable material that is going to the landfill. The result has been a program with the local vocational technical school to build compost bins for any local citizen interested in composting. A composting manual to accompany the bins was also developed. Mr. Reed has also presented an assortment of slide and video presentations to civic groups. Individual teachers have also been active in presenting environmental issues to their classes. Subjects covered in K-12 include reducing waste, recycling, and pollution.

Since only a small part of the community is being covered by the 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 it 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)

In order to best reach all of these groups in the most efficient and effective way, a Keep America Beautiful (known statewide as Clean Tennessee) program is proposed. Through the first two years, until a Keep America Beautiful (KAB) program can be 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 offerings through the Tennessee Department of Education's Project SWEEP), 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. To complement the curriculum a locally oriented slide show (possibly on video) with accompanying text will be provided to the schools for the cost of duplication.

A series of workshops and conferences will be provide for merchants, industrialists, public officials, and the public at large. Some of these seminars will use a variation of the locally oriented slide show/video used in the school system. Other programs will include information on waste reduction, recycling, local services, and the necessary steps for gaining a Keep America Beautiful/Clean Tennessee franchise. Additional audio-visual presentations should include TVA's video "Rural America: The Solid Waste Issue Hits Home." Literature focusing on regional services (i.e. RMCET) and national solutions to solid waste management problems will be provided at the seminars. The local media will need to be constantly updated on events through a series of monthly or bi-monthly news releases.

The staff person would also be responsible for quarterly evaluation reports to the Jefferson County Solid Waste Board.

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. 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 best way to fulfill these plans is to hire a part-time staff person who will be responsible for their implementation. For the initial few years, this individual would work primarily on the school education requirements and establishing some basic adult oriented workshops. The staff person would also be responsible for acquiring the necessary information in order to secure a Keep America Beautiful franchise for the region. This person would naturally be an ideal choice for the full-time KAB coordinator upon receipt of the franchise. The staff person would also be responsible for quarterly evaluation reports to the Jefferson County Regional Solid Waste Board.

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

Table IX-2

10 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	Private Donations
Hire Education Coordinator		X									County	\$15,600	Private Donations/ General Fund
Educate Target Groups		X									Education Coordinator	\$1,000	State Grant
Plan Updates	X					X					Solid Waste Board	N/A	N/A
Annual Reports	X	X	X	X	X	X	X	X	X	X	Solid Waste Coordinator	N/A	N/A

Table IX-3

Annual Funding Plan for Education Program

Source of Revenue	Amount of Revenue	Proportion of Individual Source
Private Donations	\$11,000	55%
General Fund	\$8000	40%
State Grants	\$1000	5%
Total	\$20,000	100%

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: 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 following page.

Table IX-1

Annual Capital and Operating Costs for Education Program in Jefferson County

EDUCATION PROGRAM	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<i>Capital Costs:</i>										
Audio/Visual Equipment:		\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000	\$0
KAB Franchise Fee:		\$2,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Capital Costs:		\$3,100	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000	\$0
<i>Operational Costs:</i>										
Wages, Fringes, etc.:		\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600	\$15,600
General Office, Phone, Travel, etc.:		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Promotions, Publications, and A/V:	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
KAB, Inc. Annual Fee:			\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250
Sub-Total Operational Costs:	\$1,000	\$17,600	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850	\$17,850
3.4% Cost of Living Increase:		\$598	\$1,214	\$1,821	\$2,428	\$3,035	\$3,641	\$4,248	\$4,855	\$5,462
Total Operational Costs:	\$1,000	\$18,198	\$19,064	\$19,671	\$20,278	\$20,885	\$21,491	\$22,098	\$22,705	\$23,312
Total Capital & Operation Costs:	\$1,000	\$21,298	\$19,064	\$19,671	\$20,278	\$20,885	\$21,491	\$22,098	\$23,705	\$23,312

* Personnel will consist of one person at \$6/hr. x 25% fringe benefits.

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 Jefferson 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, an appropriate location in Jefferson County could be the old Class I landfill site.

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 solid waste education program for Jefferson County will support and promote the HHW through the local schools, 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: Old Class I Landfill Site

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**

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 Jefferson County are supported by the County through disposal at the County-owned Class IV landfill. A proposed waste tire storage site will be located at the Jefferson County Landfill in Dandridge. During the fiscal year 1992-93, 7,826 tires were sold in Jefferson 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 planned storage site will be 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 proposed solid waste education program in Jefferson County.

The County will apply for a \$10,000 waste tire storage site grant to reimburse expenses for constructing the site location. The grant will be available after the Solid Waste Management Plan is approved in 1994.

The County Landfill Operator will be on site to assist the contractor if necessary. Shredded tires will be disposed at the Jefferson County Class IV 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 are 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 recovered in 1993 is available for Jefferson 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 eight convenience center sites for the public to utilize. Waste oil collection at all eight sites will be available for public use by January 1, 1995.

Industrial Waste Oil in Knoxville upon contractual agreement with the County 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.

IMPLEMENTATION: SCHEDULE, STAFFING AND FUNDING

The Solid Waste Regional Board for the Region of Jefferson 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

Since Jefferson County has constructed new Class I and Class IV landfills in the early 90's with the capacity of 40 + years, the Region Solid Waste Board has a firm foundation from which to develop a successful integrated solid waste system. The Region of Jefferson County generates about 32,620 tons per year of waste of which 71% of this waste goes into the Class I landfill. The fact that the region of Jefferson County already had a landfill with 40+ years of capacity influenced the decision to become a single county region. The solid waste board felt that they could better control the waste if they were a single county region. It should be noted that Jefferson County has experienced some waste leaving the County to other landfills, but the Solid Waste Board feels that this problem will be solved when all of the landfills are operating under the same rules and regulations in 1996. The funding of the landfill operations has come largely from tipping fees, and this method of funding will continue in the future.

Staffing and Training Requirements for Each Component

Component	94	95	96	97	98	99	00	01	02	03	Responsible Party	\$ Annual Amount	Funding Source
Data Collection	XY										Solid Waste Coordinator	\$28,000	Tipping Fees
Class I & Class IV Landfills	XY										County	\$180,000	Tipping Fees
Recycling*													
Collection: Convenience Centers	X		Y								County	\$114,000	General Fund
Collection: Door to Door	XY										Cities & Private Haulers	Varies	Solid Waste Fee
Education		XY									County	\$ 15,500	Private Donations

X = Staffing

Y = Training

* Recycling is to be integrated with the convenience centers which will allow the personnel at the convenience centers to handle the recycling program.

Annual Capital and Operating Cost for the 10 Year Regional Plan

Components:	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Class I Landfill:	\$956,358	\$974,757	\$893,835	\$913,620	\$934,178	\$965,283	\$996,880	\$1,020,736	\$1,045,024	\$1,070,224
Class IV Landfill:		see above								
Convenience Centers:	\$428,433	\$435,455	\$448,678	\$461,900	\$475,122	\$488,344	\$501,567	\$514,789	\$528,011	\$541,233
Recycling:	\$0	\$12,724	\$5,368	\$9,511	\$9,655	\$9,798	\$9,942	\$10,086	\$10,229	\$10,373
Education:	\$1,000	\$18,198	\$19,064	\$19,671	\$20,278	\$20,885	\$21,491	\$22,098	\$22,705	\$23,312
Total Costs:	\$1,384,791	\$1,441,134	\$1,366,945	\$1,404,702	\$1,439,233	\$1,484,310	\$1,529,880	\$1,567,709	\$1,605,969	\$1,645,142

Implementation

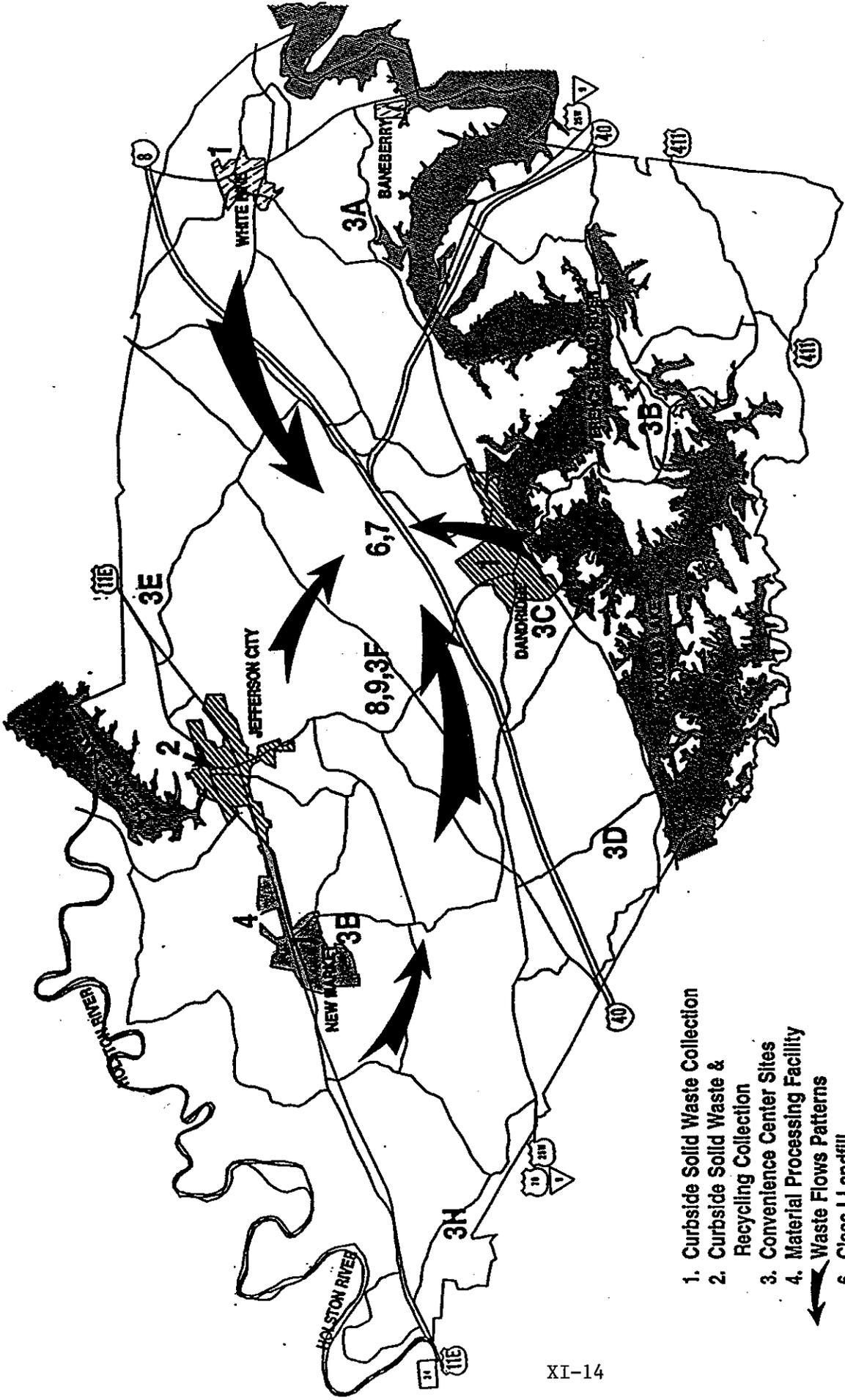
Schedule

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

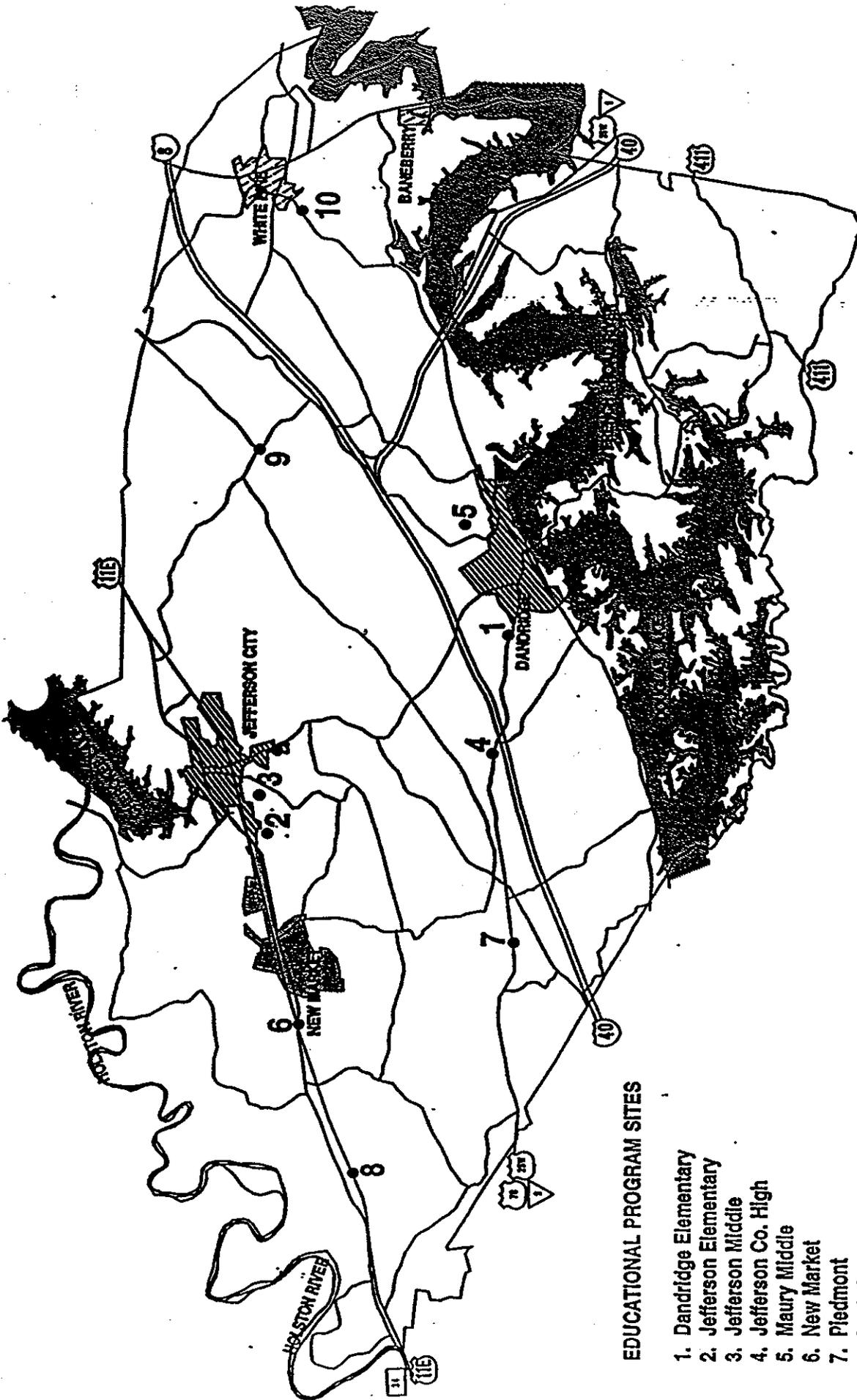
Maps

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

EXISTING SOLID WASTE MANAGEMENT SYSTEM FOR THE REGION OF JEFFERSON COUNTY



1. Curbside Solid Waste Collection
2. Curbside Solid Waste & Recycling Collection
3. Convenience Center Sites
4. Material Processing Facility
6. Class I Landfill
7. Class IV Landfill

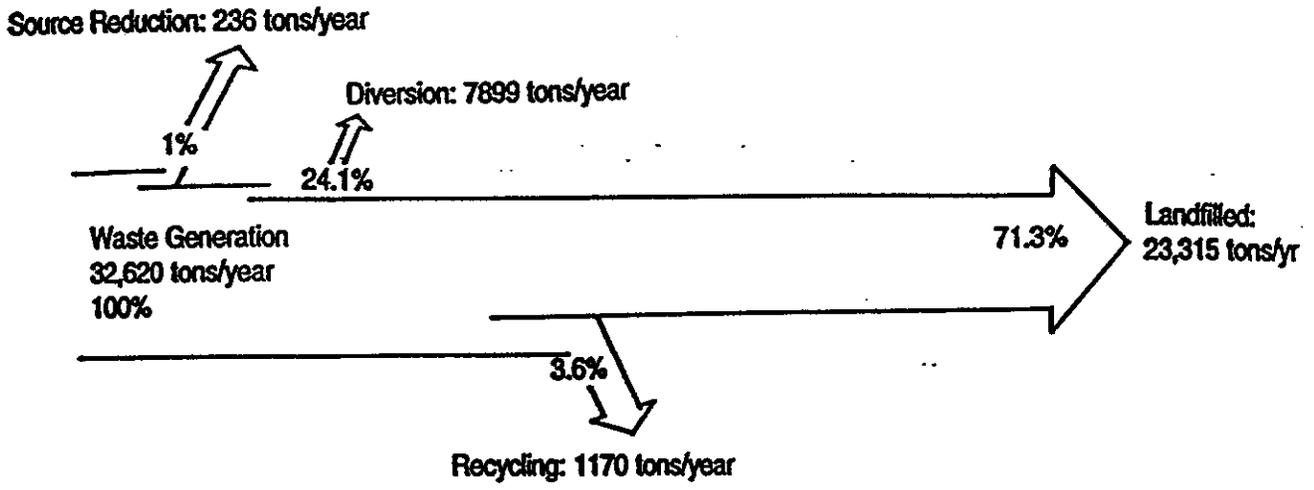


EDUCATIONAL PROGRAM SITES

- 1. Dandridge Elementary
- 2. Jefferson Elementary
- 3. Jefferson Middle
- 4. Jefferson Co. High
- 5. Maury Middle
- 6. New Market
- 7. Piedmont
- 8. Rush Strong
- 9. Talbott
- 10. White Pine

EDUCATIONAL PROGRAM SITES OF JEFFERSON COUNTY

Flow Diagram for Jefferson 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

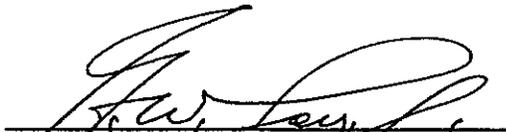
A RESOLUTION ENDORSING THE JEFFERSON COUNTY REGIONAL SOLID WASTE PLAN.

Whereas, the Jefferson County Regional Solid Waste Board was created to evaluate the existing solid waste system and develop a plan to alleviate the known deficiencies and,

Whereas, the Jefferson County Regional Solid Waste Board formulated a ten (10) year solid waste management plan to solve the depicted deficiencies of the current solid waste system. and,

Whereas, the Jefferson County Regional Solid Waste Management plan meets all Federal and State guidelines.

Now, Therefore Be It Ordained, that the Jefferson County Regional Solid Waste Board does fully endorse the Jefferson County Regional Solid Waste Management Plan. By signatures below the Solid Waste Management Plan will become an official document of record this 9th day of May, 1994.


Chairman G.W. Loy, Jr.

Attest: 
Vice-Chairman, Karl Kasman

County Commission Approval

RESOLUTION 94-11

A RESOLUTION RATIFYING
THE JEFFERSON COUNTY PLANNING REGION'S
MUNICIPAL SOLID WASTE

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 Jefferson County Board of County Commissioners created the Jefferson County Solid Waste Planning Region, and

WHEREAS, the resolution creating the Jefferson 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 Jefferson County Planning Regions solid waste plan and acknowledges Jefferson County's participation and responsibilities under this plan.

NOW, THEREFORE, BE IT RESOLVED, by the Jefferson County Board of County Commissioners that it hereby ratified the Jefferson County Planning Region solid waste plan and acknowledges Jefferson County's participation and responsibilities under this plan.

RESOLVED, this 16th day of May, 1994, the welfare of the citizens of Jefferson County, Tennessee requiring it.

APPROVED:



Gary W. Holiway
County Executive

ATTEST:



R. E. Farrar, III
County Clerk

Regional Planning Commission Minutes

JEFFERSON CITY REGIONAL PLANNING COMMISSION

MINUTES OF REGULAR MEETING

APRIL 25, 1994

The Jefferson City Regional Planning Commission met in regular session on Monday, April 25, 1994 at 7:00 p.m. at the Municipal Building with Chairman Bob Fulweiler presiding.

The following planning commission members were present:

Bill Bales	Present
Robert Burts Jr.	Present
Bob Byrd	Present
James Dean	Absent
Bob Fulweiler	Present
Jim Hull	Present
Leonard Newman	Present

Also present were Midge Jessiman; State Planner; Wayne Hinkle, Building Inspector; and Monica Myers, City Recorder.

Upon motion of Bob Byrd, seconded by Leonard Newman, the minutes of March 28, 1994 were unanimously approved as written.

Upon request by Chairman Fulweiler for citizen comments, there were none.

Mitch Lommis, a Solid Waste Planner with East Tennessee Development District, presented the Jefferson County Solid Waste Regional Plan. A copy of the plan is located in the building inspector's office.

Upon motion of Bill Bales, seconded by Leonard Newman, Roger Godwin's request for (the Iva M. Godwin's estate) final plat review of a minor subdivision on Overlook Ave. (1 lot) and with the property remaining zoned R-1 was unanimously approved.

Upon motion of Jim Hull, seconded by Leonard Newman, Bank of East Tennessee's request for a final plat review for a minor subdivision on Fate Rankin Road, (2 lots) in a R-2 zoned area, was unanimously approved.

JEFFERSON CITY PLANNING COMMISSION
April 25, 1994

Upon motion of Bob Byrd, seconded by Leonard Newman, Rainwater Realty's request for a final plat review of a minor subdivision on Flat Gap Road (4 lots) in a R-1 zoned area, of the Jefferson City Regional Zoning area, was unanimously approved.

Upon motion of Robert Burts, seconded by Leonard Newman, Deannie Lampkin/Lucille Brown's request for a final plat review of a minor subdivision on Carson St. (3 lots) in a R-2 zoned area, was unanimously approved.

Bill Bales made motion to approve the Baggett Apartment's final site plan review of four apartment units on Hwy 92 North, in a R-2 zoned area, with the contingencies that; a temporary occupancy be issued for three buildings, no bond be required if the sewer taps are prepaid and if all deficiencies from the previous preliminary site plan are met, which motion was seconded by Bob Byrd. The vote was as follows:

Bales	Aye	Fulweiler	Aye
Burts	No	Hull	Aye
Byrd	Aye	Newman	Aye

Upon motion of Bill Bales, seconded by Jim Hull, Thomas Heating & Air's request for a final site plan review for a commercial building on Highway 11-E, zoned C-1 in the Jefferson City Regional Zoning area, with the contingencies; that the plat show public water lines; a location map; and the width of the entrance/exit show 20 feet, was unanimously approved.

Upon motion of Jim Hull, seconded by Bill Bales, this meeting was unanimously adjourned.


Monica Myers
City Recorder

MEETING REPORT
JEFFERSON COUNTY PLANNING COMMISSION
April 11, 1994

MEMBERS PRESENT

Karen Everett, Chm.
Calvin Byrd
Dale Cox
Bobby Hubbard
Bob Turner

MEMBERS ABSENT

Murrell Jarnigan
Floyd Douglas, Sec.

OTHERS PRESENT

Greg Gheen
Cecil Franklin
Steve Allen
Richard Spinning
Clarke Hamilton
Todd Thompson
Telford Fogerty
Jacques Van Stratum
Lester Norman
James Daniels
Larry Hale
Jerry Edwards

Staff Representative: Tim Thompson & Dan Hawk

SOLID WASTE PLAN WORKSHOP

Mitch Loomis, from the East Tennessee Development District, held a brief workshop with the Jefferson County Planning Commission and members of the Dandridge Planning Commission concerning Jefferson County's Solid Waste Plan. Mr. Loomis discussed such items as the solid waste budget, the percentage of each municipalities budget which will be used for the plan, the location of convenient centers, and an education program which will be started in the schools which will encourage students to recycle and dispose of garbage properly. There as considerable discussion had concerning the plan.

Call to Order & Approval of Minutes

The meeting was called to order and minutes of the March 14, 1994 meeting were approved as presented.

FINAL PLAT - ANDERSON BRANCH SUBDIVISION (D)

Jacques Van Stratum presented a plat for Anderson Branch Subdivision (D). Mr. Van Stratum explained that he was simply extending Caywood Road approximately 100 feet to provide road access to a lot.

Staff Recommendation: Staff recommended that the planning commission grant final plat approval subject to turning radius data being placed on the plat and Mr. Van Stratum obtaining a letter of credit from Jefferson County Road Superintendent J.C. Thomas.

Action Taken: Mr. Turner made a motion to approve the plat subject to the turning radius data being placed on the plat and Mr. Van Stratum obtaining a letter of credit from J.C. Thomas. Mr. Cox seconded the motion which passed unanimously.

HOWARD SEAL PROPERTY - PRELIMINARY AND FINAL PLAT

Mr. Todd Thompson presented a plat of a 9 lot subdivision located on Morie Road. Mr. Thompson explained that each of the lots fronted on Morie Road and also had water available to them.

Staff Recommendation: Staff recommended that the planning commission grant preliminary plat approval subject to the size and location of the water line being placed on the plat. Staff also stated that the planning commission needs to see a complete development plan which shows the surrounding property.

Action Taken: Mr. Turner made a motion to grant preliminary plat approval subject to the location and size of the waterline being placed on the plat and Mr. Thompson providing a complete development plan showing the surrounding property more accurately. Mr. Hubbard seconded the motion which passed unanimously.

DEER LAKE SUBDIVISION - PRELIMINARY PLAT

Mr. Richard Spinning and Clarke Hamilton explained they were wanting to consult with the planning commission concerning this particular subdivision and what the planning commission would need to be placed on the plat for final approval.

Staff Recommendation: Staff recommended for preliminary plat approval of the Deer Lake Subdivision subject to the following: the deed book and page number be included on number three of the general notes; the plat include the building setback lines or a note describing the setback lines; the plat showing the airstrip which runs across part of the road and the plat contain the appropriate certificates and signatures on the final plat including the health department and road superintendent. Staff also noted that lot 2 may not have the required 150 feet at the building setback line.

Action Taken: Mr. Hubbard made a motion to grant preliminary approval subject to staff's recommendation. Mr. Cox seconded the motion which passed unanimously.

TIMBERCREST SUBDIVISION

Telford Fogerty, Jefferson County Attorney, addressed the planning commission concerning the Timbercrest Subdivision and action taken recently by the planning commission concerning a proposed street or joint permanent easement located in Timbercrest Subdivision that provided access to a lot in another subdivision, called the Wayne Hurst property which is behind Timbercrest. The planning commission approved the Hurst Subdivision based on the proposed street providing access to Tract A of the Hurst Subdivision. Mr. Fogerty explained that it was his opinion the proposed street or joint permanent easement had been conveyed through various transactions. This being the case, the subdivision plat approved by the planning commission in January based on the easement providing access to Lot A was correct. Mr. Fogerty informed the residents present, Lester Norman, James Daniels, and Larry Hale that this was a civil issue that needed to be worked out among the property owners, not by the planning commission. There was considerable discussion had concerning this topic. No action taken.

JERRY EDWARDS

Mr. Edwards voiced his concerns about the Deer Lake Subdivision. Mr. Edwards stated he lives near the subdivision and is concerned about the quality of water in the area if additional houses are allowed to locate near him. Also, Mr. Edwards stated that he had helped pay for paving the road which will be used by this subdivision. Staff stated that the planning commission would rely on the health department to determine the location of septic tanks and field lines which would not adversely effect the quality of water. No action taken.

COMMUNITY DEVELOPMENT COORDINATOR

Staff stated that he would be meeting with the county commission on April 12, 1994 to discuss a number of planning issues including the possibility of establishing a community development coordinator for Jefferson County. Staff stated he would keep the planning commission updated concerning the topics to be discussed with the county commission. No action taken.

Adjournment

There being no further business the meeting adjourned.

TT:sat

MINUTES OF THE PLANNING COMMISSION OF THE CITY OF NEW MARKET,
TENNESSEE MET IN REGULAR MONTHLY SESSION ON MONDAY, APRIL 4,
1994 AT THE CITY HALL AT 6:30 P.M.

The Planning Commission of the City of New Market, TN
met in Regular Monthly Session on Monday, April 4, 1994 at
the City Hall at 6:30 p.m.

Present were:

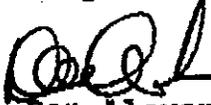
Chairman Eugene Fielden
Secretary Dan Alexander
Alderman L. A. Fountain

Minutes of the February 7, 1994 regular monthly session were
approved as presented on a motion by Secretary Dan Alexander
and seconded by Vice Mayor L. A. Fountain. The vote being
all ayes the minutes were approved as presented.

Mitch Lumas, was present to discuss the present plans
the county will be implementing concerning solid waste. He
explained that the state regs have increased the demands the
counties must follow. Jefferson County at present time is in
good standing with the requirments.

With no other business the meeting was adjourned at 7:33
p.m. on a motion made by Secretary Dan Alexander and
seconded by Alderman L. A. Fountain.

Respectfully submitted,

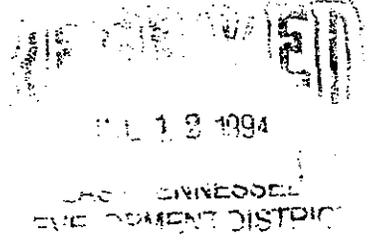


Dan Alexander

COPY

White Pine

City Council Meeting May 3, 1994



Mayor Wilder called the meeting to order with all members of the council present. Attorney Travis was absent.

After opening prayer by the Mayor minutes of the previous public hearing and council meeting were read and approved as read on a motion by Mr. Brady, second by Mr. Watson.

Mitch Lumas with the East Tennessee Development District brought the council up to date on the county's solid waste plan. He gave a brief history of the landfill and each of the five components that make up Jefferson County's plan: Class I, Class IV, convenience centers, recycling and education. He pointed out that 71% of the county waste goes to the Class I Landfill, 16.6% to the Class IV and the rest is taken to Morristown by Tidi Waste. He also stated that Jefferson County is meeting the 25% reduction order. Mr. Lumas said that our landfill fees are small compared to others but to expect an increase when the point is reached that requires the membrane liner to be installed. He said they would be holding a public hearing at the court house at 6 p.m. on May 9th and would meet with the Jefferson County Commission on May 16th for approval.

On a motion by Mr. Brady, second by Mr. Calfee, it was unanimously voted to accept the one and only bid on a John Deere 6200 tractor and Tiger 600 mower from Manning Tractor and Equipment in Sevierville in the amount of \$26,766.54.

On a motion by Mr. Watson, second by Mr. Snodgrass, it was unanimously voted to enter into a road maintenance contract with the Tennessee Department of Transportation beginning July 1, 1994.

On a motion by Mr. Watson, second by Mr. Brady, it was unanimously voted to pass Resolution #209, authorizing the filing of a recreation grant.

On a motion by Mr. Snodgrass, second by Mr. Calfee, it was unanimously voted to pass Resolution #210, making further amendments to the Personnel Rules and Regulations Handbook.

On a motion by Mr. Calfee, second by Mr. Watson, Ordinance #363, the 1994-95 budget, passed unanimously on first reading.

On a motion by Mr. Brady, second by Mr. Snodgrass, Ordinance #364, amending the 1993-94 budget, passed unanimously on first reading.

On a motion by Mr. Voiles, second by Mr. Calfee, it was unanimously voted to hire Linda Martin as Pool Manager for the 1994 season.

On a motion by Mr. Brady, second by Mr. Watson, it was unanimously voted to hire the following lifeguards: Nikki Cate, Jackie Reece and Brian Osborne full-time with Nikki as head lifeguard, and Wendy Cline, Jason Reneau and Alyssa Waddell as part-time.

On a motion by Mr. Calfee, second by Mr. Brady, it was unanimously voted to hire Chris Holt full-time upon completion of his six month probation.

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 Jefferson 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 Jefferson 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 Jefferson 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.

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 93-13

A RESOLUTION
CREATING JEFFERSON 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. 68-31-801 et seq., titled "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 worked 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. 68-31-811, 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, Jefferson 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. 68-31-813, 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 on 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 (25%) by December 31, 1995, and a planned capacity assurance of its disposal needs 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 the best interest of the citizens of Jefferson County; and

NOW, THEREFORE BE IT RESOLVED, by the Board of County Commissioners of Jefferson County, Tennessee, acting pursuant to T.C.A. 68-31-801 et seq., that there is hereby established a Municipal Solid Waste Region for and by Jefferson County, Tennessee; and

BE IT FURTHER RESOLVED, that pursuant to T.C.A. 68-31-813 (a) (2), that the Board of County Commissioners of Jefferson County, Tennessee finds and determines that Jefferson County shall be and shall constitute a single county municipal solid waste region due to the following:

a. The East Tennessee Development District's needs assessment has identified Jefferson County as a rational waste disposal area for Jefferson County's waste stream.

b. Being a single county region supports long-term capacity of waste disposal in Jefferson County. Due to the length of time necessary in permitting and constructing a new disposal facility, it is felt that long-term disposal assurance is vital to Jefferson County's solid waste management plan; and

BE IT FURTHER RESOLVED, the Municipal Solid Waste Region Board to administer the activities of this region is hereby established as follows:

a. Seven members of the board will be appointed by the Jefferson County Executive and approved by the Board of County Commissioners of Jefferson County.

b. Each municipality within Jefferson County that provides solid waste collection services or provides solid waste disposal services, directly or by contract, shall be represented by one (1) member on the board. Said member will be appointed by the Mayor and approved by the City Council of each eligible municipality within Jefferson County.

c. The members of the board shall serve for terms of six (6) years or until their successors are elected and are qualified by taking an oath of office, except that the initial board shall have one member from each eligible municipality, (Baneberry, Dandridge, Jefferson City and White Pine) with terms of six (6) years; four members appointed by the County Executive with terms of two (2) years and three members appointed by the County Executive with terms of four (4) years so as to stagger the terms of office; and

BE IT FURTHER RESOLVED, that this Municipal Solid Waste Region shall be composed of eleven (11) members; and

BE IT FURTHER RESOLVED, that this Municipal Solid Waste Region Board shall have all powers and duties as granted by T.C.A. 68-31-813 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 Jefferson County governmental personnel, to employ or contract with person, private consulting firms, and/or governmental quasi-governmental, and public entities and agencies and to utilize Jefferson County's services, facilities and records in completing this task; and

BE IT FURTHER RESOLVED, that the Municipal Solid Waste Region Board, in 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, Jefferson County, and the incorporated municipalities therein, and donations and grants from private corporations and foundations; and

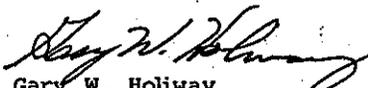
BE IT FURTHER RESOLVED, that Jefferson County shall receive, disburse and act as the fiscal agent for the administration of the funds of the Municipal Solid Waste Region and the Region's Board; and

BE IT FURTHER RESOLVED, that Resolution 92-27 adopted on the 19th day of October, 1992 by the Board of County Commissioners of Jefferson County, Tennessee is hereby replaced by Resolution 93-13.

BE IT FURTHER RESOLVED, that upon passage of this Resolution, the County Clerk of Jefferson County shall immediately transmit a certified copy to the Tennessee State Planning Office.

RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF JEFFERSON COUNTY, TENNESSEE, this 19th day of April, 1993.

APPROVED:


Gary W. Holiway
County Executive

ATTEST:


R. E. Farrar, III
County Clerk

REGION OF JEFFERSON COUNTY SOLID WASTE BOARD MEMBERS

Member	Representation	Terms of Office
1. G.W. Loy	County (Chairman)	4
2. Karl Kammann	Baneberry (Vice-Chair)	6
3. C. Edwin Simpson	County	2
4. Ponder Strange	County	2
5. Hubert Fox	County	2
6. Bobby Hubbard	County	4
7. John Turner	County	4
8. Gregg Gann	Dandridge	6
9. Wayne Hinkle	Jefferson City	6
10. Jerry Calfee	White Pine	6

Meetings are held the 3rd Tuesday of each month at 7:00 P.M. at the Jefferson County Courthouse.

Appointment Letters

RESOLUTION 93-26: ENDORSEMENT FOR HUD HOUSING.

On the motion of Commissioner Bobbie Merritt and duly seconded by Commissioner Bob Byrd Resolution 93-26 passed on Voice Vote (copy of Resolution 93-26 on page 431).

APPROVAL OF APPOINTMENTS.

On the motion of Commissioner Bob Byrd and duly seconded by Commissioner Bobbie Merritt the following were approved for appointments on Voice Vote:

Dale Gentry for unexpired term of Robert Couch	April 1996
Solid Waste Planning Region Board	
Hubert Fox	July 1995
Ed Simpson	July 1995
P.O. Strange	July 1995
Keith Craig	July 1995
G.W. Loy, Jr.	July 1997
John Turner	July 1997
Bobby Hubbard	July 1997

COMMITTEE ON COMMITTEES.

The following were appointed by Commission Chairman to report back to the County Commission about Committees at the October Meeting: Bob Byrd, Nina Snodgrass, Don Finchum, Bobbie Merritt, and Gary Holiway.

OLD FATE RANKIN ROAD.

On the motion of Commissioner Martha Glass and duly seconded by Commissioner Robert Elwood to table any action on Old Fate Rankin Road, and for the County Executive to meet with J.C. Thomas and the Planning Commission for recommendations to the Road Commissioners passed on Voice Vote.

Thereupon all matters having come before this Regular Session of the County Legislative body the meeting was adjourned.

Aldерwoman Norma Webb voting Aye

Motion passed unanimously and was so ordered.

It came on the motion of Alderman Jason Miller, seconded by Alderwoman Norma Webb, that Ordinance No. 93/94-5 "An Ordinance Of The Town Of Dandridge, Tennessee To Establish Travel Reimbursement Regulations For Town Officials And Town Employees Conducting Official Business" be passed on First Reading.

On a Roll Call vote, the voting was as follows:

Alderman Roy Brown voting Aye
Alderwoman Bobbie Merritt voting Aye
Alderman Jason Miller voting Aye
Alderwoman Roberta Robinson voting Aye
Alderwoman Norma Webb voting Aye

Motion passed unanimously and was so ordered.

Mayor Eslinger made the following appointments to the various committees:

Planning Commission - Barbara McAndrew Term of office to end
June 30, 1997
Steve Allen Term of office to end
June 30, 1994
Cecil Franklin Term of office to end
June 30, 1997

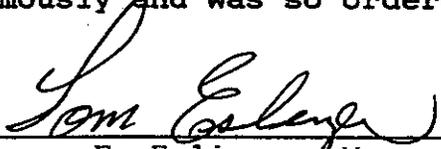
Beer Board- City Council Members

Water-Wastewater Commission - Cecil Chambers Term of office to end
June 30, 1998

Jefferson County Solid Waste Management Board - Gregg Gann

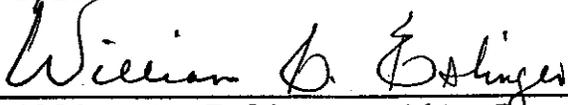
It came on the motion of Alderwoman Bobbie Merritt, seconded by Alderwoman Norma Webb, that the meeting adjourn.

Vote taken, motion passed unanimously and was so ordered.



Tommy F. Eslinger, Mayor

ATTEST:



William C. Eslinger, City Recorder

MINUTES OF REGULAR SESSION

September 7, 1993

The City Council of Jefferson City, Tennessee, met in regular session on Tuesday, September 7, 1993 at 7:00 p.m. in the Council Chambers at the Municipal Building with Mayor Bill Bales presiding.

Roll call by the City Recorder was as follows:

Mayor Bales	Present
Vice-Mayor Quarles	Present
Councilmember Gibson	Present
Councilmember Hull	Present
Councilmember Smith	Present

Also present were Don Darden, City Manager; Monica Myers, City Recorder; and Rick Scroggins, City Attorney.

Upon motion of Councilmember Hull, seconded by Vice-Mayor Quarles, the minutes of August 2, August 27, August 30, and August 31, 1993 were unanimously approved as written.

Upon request by Mayor Bales for citizen comments, Troy Loveday, a resident on Moody Road, questioned why the road was not incorporated at the time his home was annexed.

Nora Spjut, owner and developer of the property, Walnut Place Townhouses, requested that city council vote in favor of the city extending a 160' sewer line to Phase III of Walnut Townhouses.

Mayor Bales announced the following appointments:

Leonard Newman was reappointed to the Jefferson City Regional Planning Commission on July 1, 1993. He will serve until January 31, 1996.

Eddie Dean is appointed to the Jefferson City Regional Planning Commission. He will fill the unexpired term of Maurice Hatcher, who resigned on July 1, 1993. He will serve until January 31, 1995.

Keith Rugel is appointed to the Industrial Development Board. He will fill the unexpired term of Bill Barkley, who resigned on August 1, 1993. He will serve until August 21, 1996.

Wayne Hinkle is appointed to the Jefferson County Municipal Regional Solid Waste Board. He will serve until September 1, 1999.

Mayor Bales presented certificates to Fireman Joe Foister and Fireman Tommy Wood for successfully passing Tennessee State Certification-Firefighter III.

A public hearing was held on Resolution 93-20, a resolution proposing the adoption of a plan of services for the annexation of the Cora Road area. There were no comments.

A public hearing was held on Ordinance 93-28, an ordinance proposing to amend the zoning map by changing the zone for parcel 1.01, an estimated 41 acres, owned by Mr. and Mrs. Jerry Shands, from agricultural to light industry. There were no comments.

Upon motion of Councilmember Hull, seconded by Vice-Mayor Quarles, Ordinance 93-28, an ordinance proposing to amend the zoning map approved by ordinance 92-27, the Regional Zoning Ordinance, by changing the zone for parcel 1.01, consisting of 41 acres, from agricultural to light industrial, was unanimously adopted on third reading.

Upon motion of Vice-Mayor Quarles, seconded by Councilmember Hull, Resolution 93-20, a resolution proposing the adoption of a plan of services for an annexed area referred to as the Cora Road area, was unanimously adopted.

Councilmember Gibson made motion to adopt Resolution 93-21, a resolution creating a seven member city beautification board and authorizing the appointment of such board, which motion was seconded by Vice-Mayor Quarles. Mayor Bales requested the resolution be amended to read "the Mayor is authorized to appoint members" or "the City Council is authorized to appoint members." Councilmember Gibson made motion to adopt Resolution 93-21, with the amendment, "the Mayor is authorized to appoint members", which motion was seconded by Vice-Mayor Quarles. Resolution 93-21, was unanimously adopted as amended.

Upon motion of Councilmember Gibson, seconded by Councilmember Smith, Resolution 93-22, a resolution authorizing the issuance of capital outlay notes, was unanimously adopted.

Appointment of members to the Beautification Board was deferred until the next meeting.

Upon motion of Councilmember Smith, seconded by Councilmember Gibson, Ordinance 93-31, an ordinance proposing to amend the Cable TV Franchise granted by Ordinance 391 and amended by Ordinance 644, was unanimously adopted on first reading.

Upon motion of Councilmember Hull, seconded by Vice-Mayor Quarles, Ordinance 93-32, an ordinance which proposes to annex certain territory and to incorporate it within the corporate boundaries of the City of Jefferson City (Cora Road Area), was unanimously adopted on first reading.

Upon motion of Councilmember Gibson, seconded by Councilmember Smith, Ordinance 93-33, an ordinance proposing to amend various sections of Title 13 of the Jefferson City Municipal Code relative to utility policies, was unanimously adopted on first reading.

The request from Nora Spjut for the city to pay the cost of extending a 160' sewer line on private property at Walnut Place, dies for lack of motion.

Upon motion of Vice-Mayor Quarles, seconded by Councilmember Gibson, this meeting was unanimously adjourned.



Mayor



City Recorder

Role of the Board

REGION OF JEFFERSON COUNTY SOLID WASTE BOARD MEMBERS

Member	Representation	Terms of Office
1. G.W. Loy	County (Chairman)	4
2. Karl Kammann	Baneberry (Vice-Chair)	6
3. C. Edwin Simpson	County	2
4. Ponder Strange	County	2
5. Hubert Fox	County	2
6. Bobby Hubbard	County	4
7. John Turner	County	4
8. Gregg Gann	Dandridge	6
9. Wayne Hinkle	Jefferson City	6
10. Jerry Calfee	White Pine	6

Meetings are held the 3rd Tuesday of each month at 7:00 P.M. at the Jefferson County Courthouse.

Mission Statement

The goal of the Jefferson County Regional Solid Waste Board is to analyze the existing solid waste management system in the region and develop a ten year plan for the region of Jefferson 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 Jefferson 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 wants 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): Karl Kamman & Bobby Hubbard

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

<p>Prepare 10 year budget to implement Regional Plan for planned solid waste services: collection, recycling, waste reduction, disposal, public education, problem wastes, etc.</p>	<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.	<p>Dec, 1993</p>
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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): Hubert Fox & John Turner

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): G.W. Loy & Ponder Strange

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: Jerry Calfee & C. Edwin Simpson

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
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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): Gregg Gann & Wayne Hinkle

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

Financial Accounting Letters



TOWN OF WHITE PINE
P. O. BOX 66 — CITY HALL
WHITE PINE, TENNESSEE 37890

RECEIVED

JUN 30 1994

WEST TENNESSEE
DEVELOPMENT DISTRICT

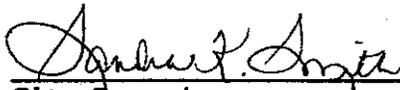
OFFICE OF
SANDRA K. SMITH, RECORDER

TELEPHONE
AREA (615) 674-2556

FAX
AREA (615) 674-2053

C E R T I F I C A T E

I, Sandra K. Smith, the duly appointed recorder and custodian of the records of the Town of White Pine, Tennessee, do hereby certify that the town has operated with a Sanitation Fund since the beginning of fiscal year 1993 (July 1, 1993 - present). Witness my hand and the official seal of the Town of White Pine, Tennessee, this 29th day of June, 1994.



City Recorder

Mayor Stanley H. Wilder appointed Alderman Jerry Calfee to serve as the Town's representative on county solid waste board in 1993.

1994-95
 SOLID WASTE/SANITATION FUND #123
 REVENUES

ACCOUNT/OBJECT	ITEM	93-94 BUDGETED	93-94 ESTIMATED	94-95 PROPOSED
3 961	OPERATING TRANSF IN FROM GF	\$70,617	\$70,617	\$61,000
3 712	COMMERCIAL FEES	\$0	\$3,544	\$7,000
	TOTAL:	<u>\$70,617</u>	<u>\$74,161</u>	<u>\$68,000</u>

1994-95
SOLID WASTE/SANITATION FUND #123
EXPENSES

ACCOUNT/OBJECT	ITEM	93-94 BUDGETED	93-94 ESTIMATED	94-95 PROPOSED
43200 SOLID WASTE				
110	SALARY	\$31,924	\$33,210	\$35,940
112	OVERTIME	\$200	\$61	\$100
140	DENTAL INSURANCE	\$160	\$158	\$470
141	OASI	\$2,500	\$2,559	\$2,760
142	HEALTH INSURANCE	\$2,600	\$2,581	\$2,850
143	RETIREMENT	\$1,000	\$1,000	\$1,440
146	WORKMANS COMP	\$2,390	\$2,389	\$2,500
147	UNEMPLOYMENT INS	\$98	\$42	\$50
211	POSTAGE	\$23	\$23	\$25
235	MEMBERSHIPS/DUES	\$100	\$100	\$100
251	MEDICAL	\$135	\$135	\$150
259	OTHER PROFESSIONAL SERVICE	\$109	\$109	\$100
261	REPAIR VEHICLES	\$500	\$450	\$500
295	LANDFILL SERVICES	\$5,500	\$5,336	\$5,500
326	UNIFORMS	\$681	\$681	\$800
329	OTHER SUPPLIES	\$400	\$290	\$300
331	GAS, OIL	\$2,000	\$1,230	\$1,500
34	TIRES, TUBES	\$600	\$50	\$1,800
344	SAFETY SUPPLIES	\$200	\$10	\$200
519	LIFE INSURANCE	\$110	\$115	\$135
621	RET. OF BANK NOTE	\$20,069	\$20,069	\$10,494
633	INT. ON BANK NOTE	\$1,288	\$1,288	\$179
	TOTAL EXPENSES:	<u>\$72,587</u>	<u>\$71,886</u>	<u>\$67,893</u>

SANITATION/SOLID WASTE FUND INCOME

ACCOUNT OBJECT	ACCOUNT NAME	FY 1992-93	FY 1993-94
34000	CHARGES FOR SERVICES		
34430	REFUSE COL. & DISPOSAL CHAR	\$19,200.00	\$19,200.00
	TOTAL CHARGES FOR SERVICES	\$19,200.00	\$19,200.00
36000	OTHER INCOME		
36961	OPERATING TRANSFER-GEN. FUN	\$142,480.00	\$176,885.00
	TOTAL OTHER INCOME	\$142,480.00	\$176,885.00
	TOTAL INCOME	\$161,680.00	\$196,085.00

SANITATION/SOLID WASTE FUND EXPENDITURES

ACCOUNT OBJECT	ACCOUNT NAME	FY 1992-93	FY 1993-94
43200	SANITATION		
111	SALARIES	\$34,190.00	\$43,200.00
112	OVERTIME	\$400.00	\$400.00
134	CHRISTMAS BONUS	\$80.00	\$90.00
141	OASI	\$2,535.00	\$3,350.00
142	HEALTH INSURANCE	\$7,500.00	\$10,200.00
143	RETIREMENT	\$960.00	\$1,370.00
146	WORKMEN'S COMPENSATION	\$3,000.00	\$3,400.00
147	UNEMPLOYMENT INSURANCE	\$150.00	\$150.00
261	REPAIR AND MAINT. MOTOR VEH	\$250.00	\$250.00
295	LANDFILL SERVICES	\$0.00	\$0.00
298	COLLECTION FEES	\$106,440.00	\$126,650.00
324	HOUSEHOLD AND JANITORIAL	\$50.00	\$50.00
326	CLOTHING AND UNIFORMS	\$750.00	\$750.00
329	OTHER OPERATING SUPPLIES	\$100.00	\$75.00
331	GAS, OIL, DIESEL FUEL, GREASE	\$2,400.00	\$2,000.00
332	MOTOR VEHICLE PARTS	\$400.00	\$500.00
333	MACH. AND EQUIP. PARTS	\$200.00	\$150.00
34	TIRES, TUBES AND ETC.	\$300.00	\$300.00
341	CONSUMABLE TOOLS	\$75.00	\$50.00
512	INS. ON VEHICLES AND EQUIP.	\$500.00	\$950.00
513	LIABILITY	\$1,400.00	\$2,200.00
949	OTHER MACHINERY AND EQUIPME	\$0.00	\$0.00
	TOTAL	\$161,680.00	\$196,085.00

BUDGET

SOLID WASTE/SANITATION
FUND 116

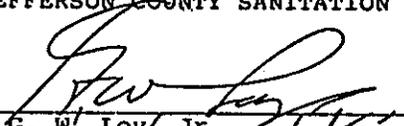
ANTICIPATED REVENUE FOR THE YEAR ENDING JUNE 30, 1994:

39000	Undesignated Fund Balance		\$ 70,000.00
40000	<u>LOCAL TAXES</u>		
40110	Current Property Tax (\$.24 cents)	\$604,200.00	
40120	Trustee's Collection - Prior Year	25,440.00	
40130	Clerk & Master's Collection - Prior Year	6,360.00	
40140	Interest and Penalty	2,500.00	
40162	Payments In Lieu of Tax - Local Utilities	1,900.00	
40320	Bank Excise Tax	1,900.00	
43110	Tipping Fees	<u>5,640.00</u>	
	Total Anticipated Collections		<u>\$647,940.00</u>
	TOTAL AVAILABLE FUNDS		<u>\$717,940.00</u>

ANTICIPATED EXPENDITURES FOR THE YEAR ENDING JUNE 30, 1994:

55731	<u>WASTE PICKUP</u>		
189	Other Salaries and Wages	\$131,500.00	
201	Social Security	10,059.75	
204	State Retirement	8,994.60	
205	Employee Insurance	18,832.20	
210	Unemployment Compensation	1,000.00	
312	Contracts with Private Agencies	6,000.00	
317	Data Processing Services	127.50	
331	Legal Services	400.00	
338	Maintenance and Repair Services - Vehicles	15,000.00	
359	Disposal Fees	443,000.00	
412	Diesel Fuel	5,000.00	
425	Gasoline	900.00	
433	Lubricants	1,400.00	
435	Office Supplies	400.00	
450	Tires and Tubes	6,000.00	
452	Utilities	2,000.00	
499	Other Supplies and Materials	3,500.00	
510	Trustee's Commission	12,775.80	
511	Vehicle and Equipment Insurance	10,000.00	
513	Workman's Compensation Insurance	13,000.00	
599	Other Charges	2,500.00	
65000-	599 Other Charges	<u>25,550.15</u>	
	TOTAL EXPENDITURES		\$717,940.00

JEFFERSON COUNTY SANITATION DEPARTMENT


G. W. Loy, Jr.

Chairman


Donald D. Potts

SUPT.

BUDGET
SOLID WASTE DISPOSAL
FUND 207

ANTICIPATED REVENUE FOR THE YEAR ENDING JUNE 30, 1994:

39000	Undesignated Fund Balance		\$ 20,000.00
43110	Tipping Fees		
44170	Miscellaneous Refunds	\$700,638.90	
	Total Anticipated Collections	<u>2,500.00</u>	
	TOTAL AVAILABLE FUNDS		\$703,138.90
			\$723,138.90

ANTICIPATED EXPENDITURES FOR THE YEAR ENDING JUNE 30, 1994:

55754	<u>LANDFILL OPERATION AND MAINTENANCE</u>		
189	Other Salaries and Wages	\$137,000.00	
201	Social Security	10,480.50	
204	State Retirement	9,370.80	
205	Employee Insurance	11,700.00	
210	Unemployment Compensation	800.00	
305	Audit Services	2,000.00	
317	Data Processing Services	127.50	
321	Engineering Services	16,000.00	
322	Evaluation and Testing (Monitoring Wells)	6,000.00	
331	Legal Services	2,000.00	
336	Maintenance and Repair Services - Equipment	98,500.00	
351	Rentals	25,500.00	
409	Crushed Stone	65,000.00	
412	Diesel Fuel	35,000.00	
420	Fertilizer, Lime, and Seed	2,000.00	
425	Gasoline	4,800.00	
433	Lubricants	11,500.00	
435	Office Supplies	2,250.00	
438	Pipe	2,000.00	
442	Propane Gas	1,800.00	
446	Small Tools	1,500.00	
450	Tires and Tubes	7,500.00	
452	Utilities	3,800.00	
460	Geotextile Materials	500.00	
463	Testing (soil, and liner)	36,000.00	
468	Chemicals	3,000.00	
499	Other Supplies and Materials	4,000.00	
502	Building and Contents Insurance	1,100.00	
506	Liability Insurance	5,200.00	
510	Trustee's Commission	8,358.65	
511	Vehicle and Equipment Insurance	13,000.00	
513	Workman's Compensation Insurance	12,000.00	
514	Depreciation (Bond Payment)	100,000.00	
517	Surcharge and Maintenance Fee	23,500.00	
599	Other Charges	5,000.00	
603	Interest on Bonds	15,000.00	
699	Other Debt Service	30,726.45	
65000-	599 Other Charges	<u>9,125.00</u>	
	TOTAL EXPENDITURES		\$723,138.90

JEFFERSON COUNTY SANITATION DEPARTMENT

G. W. Loy, Jr.
G. W. Loy, Jr. CHAIRMAN

Donald D. Potts
Donald D. Potts SUPT.

Class I - \$38.00
Class IV - \$26.00

"Second Oldest Town In State"

TOM ESLINGER
Mayor

WILLIAM C. ESLINGER
Recorder

The Town of Dandridge

P. O. BOX 249
DANDRIDGE, TENNESSEE 37725

May 6, 1994

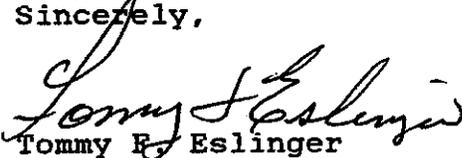
East Tennessee Development District
Mitchell E. Loomis
P. O. Box 19806
Knoxville, TN 37939-2806

Dear Mr. Loomis:

Please be advised, that the Town of Dandridge has a separate Sanitation budget from the General Fund of which a copy is enclosed.

If additional information is needed, please feel free to contact me at 615-397-7420.

Sincerely,


Tommy E. Eslinger
Mayor

TFE/kp

Enclosure

Town of Dandridge, Tennessee
 Budget
 Sanitation Fund
 For The Year Ended June 30, 1994

REVENUE	Budget FY-94
04400 Sanitation Charges	\$1,400
36961 App. From Gen. Fund	117,212

Total Estimated Reven	\$118,612
Beg. Available Funds	0

	\$118,612
	=====

APPROPRIATIONS

13200 Sanitation	
110 Salaries	\$37,023
112 Emergency Labor	1,000
134 Christmas Bonus	200
141 OASI	2,833
142 Hospital & Health	4,553
143 Retirement	1,211
146 Workman Compensatio	1,950
147 Unemployment Comp	42
11 Electric	0
12 Water	0
244 Natural Gas	550
245 Telephone	200
251 Medical	400
290 Recycling	14,000
295 Landfill Tipping Fe	5,500
320 Operating Supplies	750
326 Clothing & Uniforms	1,200
331 Gas, Oil & Diesel	2,200
332 Motor Vehicle Parts	2,500
510 Insurance	2,500
940 Machinery & Equip.	40,000

TOTAL SANITATION FUND	\$118,612
	=====

The Jefferson County Solid Waste Planning Board met on Tuesday, August 31, 1993 at the Jefferson County Courthouse.

Members present:

G.W. Loy, Jr., Chairman
Keith Craig
Hubert Fox
Ed Simpson
Ponder Strange

Karl Kamman
Greg Gann
Wayne Hinkle
Jerry Calfee
John Turner

Others present:

Gary Holiway
Don Potts

Chris Garkovich
Vince Gauthier

Motion by Hubert Fox and second by Keith Craig to approve minutes of the Aug. 3, 1993 meeting with the following corrections; motion to nominate G.W. Loy, Jr. for Chairman was made by Bobby Hubbard and motion to nominate Karl Kamman for Vice-Chairman was made by Wayne Hinkle.

Motion by Keith Craig and second by John Turner to hire a secretary at \$25.00 per meeting. Motion passed by voice vote.

Chris Garkovich explained the planning grant.

Ms. Garkovich also explained that flow control of solid waste in Jefferson County cannot be implemented by the planning board until the long range plan is completed and accepted by the state.

Ms Garkovich recommended a Solid Waste Advisory Committee be formed. Board members assigned to committees to accumulate information for the plan are as follows:

Education - Keith Craig
Finance - John Turner and Bobby Hubbard
Collection - Wayne Hinkle and Gregg Gann
Disposal - Karl Kamman
Reduction - Hubert Fox and P.O. Strange

The next meeting set for Sept. 21, 1993.

The meeting adjourned at 9:01 p.m.

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

a Jefferson County Solid Waste Planning Board met on Tuesday, October 19, 1993 at the Jefferson County Courthouse.

Members present:

G.W. Loy, Jr. Chairman	Gregg Gann
Bobby Hubbard	Wayne Hinkle
Ed Simpson	Jerry Calfee
Karl Kammann	

Others present:

Gary Holiway	Chris Garkovich
Don Potts	Vince Gauthier

Meeting was called to order by Chairman G.W. Loy, Jr.

Chris Garkovich gave reports for the regional plan on waste generation rates, projected disposal demand, projected disposal capacity, preliminary system design, and recycling programs through charts and statistics.

The board had a general discussion of recycling options and problems. Chris Garkovich identified three (3) waste collection problems:

1. Household hazardous waste - The state is contracting with a private firm to have one day collections.
2. Waste oil - Collection tanks are available at no cost from Industrial Waste Oil of Knoxville.
3. Waste tires - Tire storage facility grants are available. The state has a contract for shredding tires.

Vince Gauthier gave an education overview and summary of how to reduce waste, recycle, and reduce littering. He suggested that retired teachers be considered for education programs in schools.

Chris Garkovich previewed regional collection program, including curb side pickup and convenience centers. A draft of the plan will be presented at the Nov. 16 meeting.

Meeting adjourned at 9:15 p.m.

The Jefferson County Solid Waste Planning Board met on Tuesday, Nov. 16, 1993 at the Jefferson County Courthouse.

Members present were:

P.O. Strange	Ed Simpson
Bobby Hubbard	Greg Gann
Jerry Calfee	Wayne Hinkle
Karl Kammann	

Others present were:

Vince Gauthier; ETDD	Don Potts
Chris Garkovich; CTAS	Gary Holiway

In the absence of the Chairman and Vice-Chairman, Chris Garkovich conducted the meeting. Chris introduced speakers on recycling.

1. Richard J. Lorge from North American Rayon Corp. spoke about converting waste to energy.
2. Barry K. Marshall from BFI Waste Systems gave a presentation on convenient centers and collection of recyclable waste.
3. C.M. Boggs from Waste Management Inc. reviewed door to door collection system in Knoxville verses drop-off stations for recyclables

In other business, Vince Gauthier handed out a draft of chapters 1,2,3 & of the plans to be reviewed by membership for the next meeting.

The meeting adjourned at 9:40 p.m.

Jefferson County Solid Waste Regional Planning Board met Feb. 15, 1994 at the Jefferson County Courthouse.

Members present:

Jerry Calfee
Wayne Hinkle
Greg Gann
John Turner
Karl Kammann

Bobby Hubbard
Ed Simpson
P.O. Strange
G.W. Loy, Jr.

Others present:

Gary Holiway
Don Potts
Chris Marion

Mitchell Loomis; ETDD
Janice Morrissey; TVA/UT

The meeting was called to order at 7:00 p.m. by Chairman, G.W. Loy, Jr.

Mitchell Loomis introduced himself as the new solid waste planner from East Tennessee Development District.

Four chapters of the draft plan was reviewed by Mitchell Loomis.

Chapter I - Description of the Municipal Solid Waste Region

Chapter II - Analysis of the current solid waste management system for the region.

Chapter III - Growth trends, waste projections and preliminary system structure.

Chapter IX - Public information and education

The planning board had a general discussion about brush and mulch. Cities are concerned about how they can dispose of it.

Mr. Loomis reported on convenient center regulations and made statements to go into the plan about accepting out of county waste.

The plan should be finalized at the March 15 meeting and presented to the county planning commission on April 11. The plan will have one (1) recycling center at the old landfill convenient center.

With no other business to discuss, a motion to adjourn by P.O. Strange was seconded by John Turner. The meeting adjourned at 8:45 p.m.

The Jefferson County Solid Waste Board met at 6:00 p.m. on Monday, May 1, 1994 at the Jefferson County Courthouse.

Members present:

Jerry Calfee
Greg Gann
Wayne Hinkle
Bobby Hubbard

Karl Kamman
Ed Simpson
P.O. Strange

Others present:

Gary Holiway
Mitch Loomis

The meeting was called to order by Karl Kamman, Vice-Chairman.

Mitch Loomis reviewed the Jefferson County Regional Solid Waste plan and costs.

A motion was made by Wayne Hinkle and seconded by Greg Gann to adopt a resolution to approve the Regional Solid Waste Plan. The motion passed with no opposition.

There was no other business.

The meeting adjourned at 6:40 p.m.

Public Hearing

Publi Henry

May 9, 1999 - 6:00 p.m.

Don Potts

Gary Gunn

Walter Wallace

Jerry B. Collier

Bob Simpson

P.O. Sprang

Bobby Buford

Martha Blase

John Blasing

Paul E. Brown

Karl Kamm

Sherril Franklin

The Standard Banner

● P.O. Box 310 ● Jefferson City, Tennessee 37760 ● Phone (615) 475-2081

RECEIVED

MAY 25 1994

EAST TENNESSEE
DEVELOPMENT DISTRICT

Affadavit of Publication

State of Tennessee
County of Jefferson

T.T. Gentry, being duly sworn, deposes and says that he is the Publisher of the Standard Banner, a weekly newspaper published at Jefferson City, Tennessee, and that the notice hereto attached was published for two consecutive issues in said paper, and that the total cost is \$ 12.38, as indicated on the attached invoice.

NOTICE OF MEETING
The Jefferson County Regional Solid Waste Board will hold a public hearing on May 9, 1994 at 6:00 P.M. at the Jefferson County Courthouse to discuss the proposed solid waste management plan for Jefferson County. All interested parties are urged to attend.

G.W. Loy, Jr.,
Solid Waste Board Chairman
• 4:28, 5:5 2 tcs.

T. T. Gentry
Publisher

Sworn and subscribed to
before me this 9th day of
May, 1994.

Carl Gentry
Notary Public

My commission expires
February 7, 1997.

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.**

MEETING REPORT
JEFFERSON COUNTY PLANNING COMMISSION
April 11, 1994

MEMBERS PRESENT

Karen Everett, Chm.
Calvin Byrd
Dale Cox
Bobby Hubbard
Bob Turner

MEMBERS ABSENT

Murrell Jarnigan
Floyd Douglas, Sec.

OTHERS PRESENT

Greg Gheen
Cecil Franklin
Steve Allen
Richard Spinning
Clarke Hamilton
Todd Thompson
Telford Fogerty
Jacques Van Stratum
Lester Norman
James Daniels
Larry Hale
Jerry Edwards

Staff Representative: Tim Thompson & Dan Hawk

SOLID WASTE PLAN WORKSHOP

Mitch Loomis, from the East Tennessee Development District, held a brief workshop with the Jefferson County Planning Commission and members of the Dandridge Planning Commission concerning Jefferson County's Solid Waste Plan. Mr. Loomis discussed such items as the solid waste budget, the percentage of each municipalities budget which will be used for the plan, the location of convenient centers, and an education program which will be started in the schools which will encourage students to recycle and dispose of garbage properly. There as considerable discussion had concerning the plan.

Call to Order & Approval of Minutes

The meeting was called to order and minutes of the March 14, 1994 meeting were approved as presented.

FINAL PLAT - ANDERSON BRANCH SUBDIVISION (D)

Jacques Van Stratum presented a plat for Anderson Branch Subdivision (D). Mr. Van Stratum explained that he was simply extending Caywood Road approximately 100 feet to provide road access to a lot.

Staff Recommendation: Staff recommended that the planning commission grant final plat approval subject to turning radius data being placed on the plat and Mr. Van Stratum obtaining a letter of credit from Jefferson County Road Superintendent J.C. Thomas.

Action Taken: Mr. Turner made a motion to approve the plat subject to the turning radius data being placed on the plat and Mr. Van Stratum obtaining a letter of credit from J.C. Thomas. Mr. Cox seconded the motion which passed unanimously.

HOWARD SEAL PROPERTY - PRELIMINARY AND FINAL PLAT

Mr. Todd Thompson presented a plat of a 9 lot subdivision located on Morie Road. Mr. Thompson explained that each of the lots fronted on Morie Road and also had water available to them.

Staff Recommendation: Staff recommended that the planning commission grant preliminary plat approval subject to the size and location of the water line being placed on the plat. Staff also stated that the planning commission needs to see a complete development plan which shows the surrounding property.

Action Taken: Mr. Turner made a motion to grant preliminary plat approval subject to the location and size of the waterline being placed on the plat and Mr. Thompson providing a complete development plan showing the surrounding property more accurately. Mr. Hubbard seconded the motion which passed unanimously.

DEER LAKE SUBDIVISION - PRELIMINARY PLAT

Mr. Richard Spinning and Clarke Hamilton explained they were wanting to consult with the planning commission concerning this particular subdivision and what the planning commission would need to be placed on the plat for final approval.

Staff Recommendation: Staff recommended for preliminary plat approval of the Deer Lake Subdivision subject to the following: the deed book and page number be included on number three of the general notes; the plat include the building setback lines or a note describing the setback lines; the plat showing the airstrip which runs across part of the road and the plat contain the appropriate certificates and signatures on the final plat including the health department and road superintendent. Staff also noted that lot 2 may not have the required 150 feet at the building setback line.

Action Taken: Mr. Hubbard made a motion to grant preliminary approval subject to staff's recommendation. Mr. Cox seconded the motion which passed unanimously.

TIMBERCREST SUBDIVISION

Telford Fogerty, Jefferson County Attorney, addressed the planning commission concerning the Timbercrest Subdivision and action taken recently by the planning commission concerning a proposed street or joint permanent easement located in Timbercrest Subdivision that provided access to a lot in another subdivision, called the Wayne Hurst property which is behind Timbercrest. The planning commission approved the Hurst Subdivision based on the proposed street providing access to Tract A of the Hurst Subdivision. Mr. Fogerty explained that it was his opinion the proposed street or joint permanent easement had been conveyed through various transactions. This being the case, the subdivision plat approved by the planning commission in January based on the easement providing access to Lot A was correct. Mr. Fogerty informed the residents present, Lester Norman, James Daniels, and Larry Hale that this was a civil issue that needed to be worked out among the property owners, not by the planning commission. There was considerable discussion had concerning this topic. No action taken.

JERRY EDWARDS

Mr. Edwards voiced his concerns about the Deer Lake Subdivision. Mr. Edwards stated he lives near the subdivision and is concerned about the quality of water in the area if additional houses are allowed to locate near him. Also, Mr. Edwards stated that he had helped pay for paving the road which will be used by this subdivision. Staff stated that the planning commission would rely on the health department to determine the location of septic tanks and field lines which would not adversely effect the quality of water. No action taken.

COMMUNITY DEVELOPMENT COORDINATOR

Staff stated that he would be meeting with the county commission on April 12, 1994 to discuss a number of planning issues including the possibility of establishing a community development coordinator for Jefferson County. Staff stated he would keep the planning commission updated concerning the topics to be discussed with the county commission. No action taken.

Adjournment

There being no further business the meeting adjourned.

TT:sat

MINUTES OF THE PLANNING COMMISSION OF THE CITY OF NEW MARKET,
TENNESSEE MET IN REGULAR MONTHLY SESSION ON MONDAY, APRIL 4,
1994 AT THE CITY HALL AT 6:30 P.M.

The Planning Commission of the City of New Market, TN
met in Regular Monthly Session on Monday, April 4, 1994 at
the City Hall at 6:30 p.m.

Present were:

Chairman Eugene Fielden
Secretary Dan Alexander
Alderman L. A. Fountain

Minutes of the February 7, 1994 regular monthly session were
approved as presented on a motion by Secretary Dan Alexander
and seconded by Vice Mayor L. A. Fountain. The vote being
all ayes the minutes were approved as presented.

Mitch Lumas, was present to discuss the present plans
the county will be implementing concerning solid waste. He
explained that the state regs have increased the demands the
counties must follow. Jefferson County at present time is in
good standing with the requirments.

With no other business the meeting was adjourned at 7:33
p.m. on a motion made by Secretary Dan Alexander and
seconded by Alderman L. A. Fountain.

Respectfully submitted,


Dan Alexander

COPY

White Pine

City Council Meeting May 3, 1994

MAY 13 1994

EAST TENNESSEE
DEVELOPMENT DISTRICT

Mayor Wilder called the meeting to order with all members of the council present. Attorney Travis was absent.

After opening prayer by the Mayor minutes of the previous public hearing and council meeting were read and approved as read on a motion by Mr. Brady, second by Mr. Watson.

Mitch Lumas with the East Tennessee Development District brought the council up to date on the county's solid waste plan. He gave a brief history of the landfill and each of the five components that make up Jefferson County's plan: Class I, Class IV, convenience centers, recycling and education. He pointed out that 71% of the county waste goes to the Class I Landfill, 16.6% to the Class IV and the rest is taken to Morristown by Tidi Waste. He also stated that Jefferson County is meeting the 25% reduction order. Mr. Lumas said that our landfill fees are small compared to others but to expect an increase when the point is reached that requires the membrane liner to be installed. He said they would be holding a public hearing at the court house at 6 p.m. on May 9th and would meet with the Jefferson County Commission on May 16th for approval.

On a motion by Mr. Brady, second by Mr. Calfee, it was unanimously voted to accept the one and only bid on a John Deere 6200 tractor and Tiger 600 mower from Manning Tractor and Equipment in Sevierville in the amount of \$26,766.54.

On a motion by Mr. Watson, second by Mr. Snodgrass, it was unanimously voted to enter into a road maintenance contract with the Tennessee Department of Transportation beginning July 1, 1994.

On a motion by Mr. Watson, second by Mr. Brady, it was unanimously voted to pass Resolution #209, authorizing the filing of a recreation grant.

On a motion by Mr. Snodgrass, second by Mr. Calfee, it was unanimously voted to pass Resolution #210, making further amendments to the Personnel Rules and Regulations Handbook.

On a motion by Mr. Calfee, second by Mr. Watson, Ordinance #363, the 1994-95 budget, passed unanimously on first reading.

On a motion by Mr. Brady, second by Mr. Snodgrass, Ordinance #364, amending the 1993-94 budget, passed unanimously on first reading.

On a motion by Mr. Voiles, second by Mr. Calfee, it was unanimously voted to hire Linda Martin as Pool Manager for the 1994 season.

On a motion by Mr. Brady, second by Mr. Watson, it was unanimously voted to hire the following lifeguards: Nikki Cate, Jackie Reece and Brian Osborne full-time with Nikki as head lifeguard, and Wendy Cline, Jason Reneau and Alyssa Waddell as part-time.

On a motion by Mr. Calfee, second by Mr. Brady, it was unanimously voted to hire Chris Holt full-time upon completion of his six month probation.

JEFFERSON CITY REGIONAL PLANNING COMMISSION

MINUTES OF REGULAR MEETING

APRIL 25, 1994

The Jefferson City Regional Planning Commission met in regular session on Monday, April 25, 1994 at 7:00 p.m. at the Municipal Building with Chairman Bob Fulweiler presiding.

The following planning commission members were present:

Bill Bales	Present
Robert Burts Jr.	Present
Bob Byrd	Present
James Dean	Absent
Bob Fulweiler	Present
Jim Hull	Present
Leonard Newman	Present

Also present were Midge Jessiman; State Planner; Wayne Hinkle, Building Inspector; and Monica Myers, City Recorder.

Upon motion of Bob Byrd, seconded by Leonard Newman, the minutes of March 28, 1994 were unanimously approved as written.

Upon request by Chairman Fulweiler for citizen comments, there were none.

Mitch Lommis, a Solid Waste Planner with East Tennessee Development District, presented the Jefferson County Solid Waste Regional Plan. A copy of the plan is located in the building inspector's office.

Upon motion of Bill Bales, seconded by Leonard Newman, Roger Godwin's request for (the Iva M. Godwin's estate) final plat review of a minor subdivision on Overlook Ave. (1 lot) and with the property remaining zoned R-1 was unanimously approved.

Upon motion of Jim Hull, seconded by Leonard Newman, Bank of East Tennessee's request for a final plat review for a minor subdivision on Fate Rankin Road, (2 lots) in a R-2 zoned area, was unanimously approved.

Upon motion of Bob Byrd, seconded by Leonard Newman, Rainwater Realty's request for a final plat review of a minor subdivision on Flat Gap Road (4 lots) in a R-1 zoned area, of the Jefferson City Regional Zoning area, was unanimously approved.

Upon motion of Robert Burts, seconded by Leonard Newman, Deannie Lampkin/Lucille Brown's request for a final plat review of a minor subdivision on Carson St. (3 lots) in a R-2 zoned area, was unanimously approved.

Bill Bales made motion to approve the Baggett Apartment's final site plan review of four apartment units on Hwy 92 North, in a R-2 zoned area, with the contingencies that; a temporary occupancy be issued for three buildings, no bond be required if the sewer taps are prepaid and if all deficiencies from the previous preliminary site plan are met, which motion was seconded by Bob Byrd. The vote was as follows:

Bales	Aye	Fulweiler	Aye
Burts	No	Hull	Aye
Byrd	Aye	Newman	Aye

Upon motion of Bill Bales, seconded by Jim Hull, Thomas Heating & Air's request for a final site plan review for a commercial building on Highway 11-E, zoned C-1 in the Jefferson City Regional Zoning area, with the contingencies; that the plat show public water lines; a location map; and the width of the entrance/exit show 20 feet, was unanimously approved.

Upon motion of Jim Hull, seconded by Bill Bales, this meeting was unanimously adjourned.


Monica Myers
City Recorder