

Routing Page  
Solid Waste Planning Region  
5 - YR Update

Planning Region: Knox County

**Clerk**

*Note: Send one original copy of the report to the permanent file. If the planning region did not provide two copies of the report, then make a working copy and send the original to the permanent file.*

1. Write in the name of the person completing this report \_\_\_\_\_  
a "cc" for all letters sent to the chairperson.
  
2. (may be attached as a separate list):  
Was a list of board members provided? \_\_\_\_\_ Yes  No  
*If yes, continue to question four and verify the term of each member is current.  
If no, skip question and go directly to question.*
  
3. Was the term of each member current? \_\_\_\_\_ Yes \_\_\_\_\_ No  
*Continue to question.*
  
4. See page 14:  
Did the chairperson of the board sign and date the report? \_\_\_\_\_ Yes  No  
*Continue to question.*
  
5. See page 14:  
Did the county executive, (each local Government body) sign and date the report? \_\_\_\_\_ Yes  No  
*Continue to question.*
  
6. Which reviewer was assigned to this report? \_\_\_\_\_ Karen \_\_\_\_\_ Bob \_\_\_\_\_ Becky  
*Continue to question.*
  
7. On what date was the report sent to the reviewer? \_\_\_\_\_  
*Continue to question.*
  
8. What is the deadline for the review (i.e., 90 working days from received stamp)? \_\_\_\_\_  
*Attach routing page to the report and give it to the reviewer.*

*Note: The letter will be addressed to the chairperson. The cc list will include the County Executive, Development District Director, person who prepared the report, and the CTAS contact. Modify (with date, names, cc, etc.) and print the letter entitled "5YrUpdtlnmerg." and give letter to Linda Rigsby for Ron Graham's signature. After letter is signed, Linda copies the letter for the cc list and one for the file. Linda then mails the letters and sends a copy of the letter to Patty to be placed in the permanent file.*

**Reviewer**

Date review is complete \_\_\_\_\_ Reviewer's initials \_\_\_\_\_  
*Log-in completion date and give working copy of report to Bob. Leave original copy in the permanent file.*

knox

<b>Chapter 1 - Summary</b>		
Less than 10 page summary - <ul style="list-style-type: none"> <li>• evaluate each chapter briefly</li> <li>• compare existing systems to needs assessed</li> <li>• outline plans for future</li> </ul>		
Implementation schedule illustrating current and planned facilities and programs		
Map with facilities & programs where appropriate on a base systems map for each county in the Region		
Flow diagram illustrating the waste stream in the Region		
<b>Chapter 2 - General Information</b>		
Identify the Region by name, and list counties and municipalities that comprise the Region.		
Total population of Region by county; provide source of information and year	✓	
Regional Solid Waste Board Members - name, address, term, etc.		
Has the Region formed a Part 9 Solid Waste Authority?	✓	
Three contacts for solid waste information	✓	
Activities and workings of the Region's Solid Waste Board and/or Part 9 Authority Board <ul style="list-style-type: none"> <li>• Board meeting schedule</li> <li>• involvement with concerned entities in planning decisions</li> <li>• process for addressing public</li> <li>• permit review</li> </ul>	✓ ✓ ✓	
Region's rationale for formation	✓	
<i>Responsibilities of various participating jurisdictions -TCA 68-211-815(b) 14)</i>		
Municipalities with door to door collection service - table		
Describe the Region, generally, geographically, and demographically.	✓	
Fee for solid waste services- <ul style="list-style-type: none"> <li>• legal authority to institute</li> <li>• jurisdiction collects it</li> <li>• how collected</li> <li>• how much</li> </ul>	✓	
Funding for solid waste programs and expenses in the Region <ul style="list-style-type: none"> <li>• capital cost considerations</li> <li>• staffing requirements</li> <li>• operating expenses</li> </ul>		
New expenses and/or new fees or revenues needed or anticipated		
Designated special revenue or enterprise fund	✓	

Proposed 10-year solid waste budget		
Contacts in the Region for information regarding solid waste budgets	✓	
<b>Chapter 3 - Waste Stream</b>		
Tons of solid waste were generated within the Region <u>and</u> disposed of in Class I landfills or incinerators located in or out of the Region. (include breakdown of tonnages and sources of information)	<i>dk</i>	
Percentages in the following categories <ul style="list-style-type: none"> <li>• Residential</li> <li>• Commercial</li> <li>• Industrial</li> <li>• Institutional (school, hospital, prison)</li> <li>• Other (including special)                      The total should equal 100%.</li> </ul> <i>(Compare this to estimates from original 10-year plan and comment)</i>		
Estimate the percentage of the tons reported in #1 above using these categories: <ul style="list-style-type: none"> <li>• Yard waste</li> <li>• Construction/Demolition waste (Class IV)</li> <li>• Tires</li> <li>• Recyclables</li> <li>• White goods</li> <li>• Regular Municipal Solid Waste                      The total should equal 100%.</li> </ul> <i>(Compare this to estimates from original 10-year plan and comment)</i>		
Total Generated waste: <ul style="list-style-type: none"> <li>• source reduction (especially industrial practices);</li> <li>• recycling (include composting);</li> <li>• diversion (to Class III/IV landfills); and</li> <li>• unmanaged waste (burned in backyards, illegal dumps, ditches)</li> <li>• disposed</li> </ul> <i>(Compare this to estimates from original 10-year plan and comment)</i>	<i>dk</i>	
Proportional Flow Diagram - Discuss your reasons for making the estimates in all four cases above.		
Demographic trends that may affect waste disposal and generation figures in the region	✓	
Economic condition of the Region employers unemployment rate - <i>How does/might this affect the waste stream?</i>		
Top five contributors to the overall waste stream generated - name, phone, waste types, tons disposed - <i>Likelihood that this trend will continue?</i>		
Clean up and litter prevention programs - describe the program, contacts <i>Do programs target prevalent waste streams?</i>		
Each county, city, or Part 9 Authority in the Region. <ul style="list-style-type: none"> <li>• current reduction or diversion programs sponsored by each and the success level</li> <li>• proposed programs and discuss</li> <li>• ten year trends and needs</li> <li>• how the jurisdictions work together</li> <li>• education programs (commercial and industrial sectors)</li> </ul>		
<b>Chapter 4 - Collection &amp; Transportation</b>		

Collection services available - table <i>Contract information where applicable? (contractor, term of contract)</i>		
Collection Assurance <i>Is efficient collection assured at a reasonable price for the ten year planning horizon?</i>		
Collection needs in the Region, and trends anticipated over the next ten years <i>Plans to meet indicated needs</i>		
<b>Chapter 5 - Recycling</b>		
Recycling or waste reduction coordinator - name, title, phone, address		
Waste reduction programs <ul style="list-style-type: none"> <li>• Program Name, Contact, Phone Number, Address</li> <li>• Program Description (Items accepted, curbside, drop-off, not-for-profit, etc., public or private operated, open to all or to a limited group)</li> </ul>		
Materials processing facilities <i>Success of facility, plans to continue operation</i>		
Composting facilities <i>Success of facility, plans to continue operation</i>		
Recycling & Reduction Efforts <ul style="list-style-type: none"> <li>• Progress and setbacks</li> <li>• Successes and failures in marketing</li> <li>• Cooperation of jurisdictions in the Region on marketing efforts</li> <li>• Future plans for additional recycling, reduction, or end-use programs <i>(How plan to address setbacks in reduction efforts and marketing failures)</i></li> </ul>		
List and describe recycling collection site(s) - Name, Contact, Phone Number, Address, etc		
<b>Chapter 6 - Disposal</b>		
Please list all the landfills, transfer stations, Municipal Solid Waste incinerators, Landfill Gas to Energy facilities, and Waste to Energy facilities in the Region. <ul style="list-style-type: none"> <li>• Name of Facility</li> <li>• Owner</li> <li>• Operator/Contact</li> <li>• Phone Number</li> <li>• Address/Location/County</li> <li>• Classification of Landfill (I – IV) For Class I landfill: does facility meet Federal Subtitle D regulations?</li> <li>• Jurisdictions Served (Please identify by name)</li> <li>• Permit Number</li> <li>• Tipping fee per ton (List fee amounts)</li> <li>• Special Tipping Fees (List fee amounts)</li> <li>• Materials the facility receives/limits</li> <li>• Does the facility produce energy?</li> <li>• Transfer from where to where?</li> </ul>		
Class I waste exported		
Class I waste imported		

Evaluate disposal needs <ul style="list-style-type: none"> <li>• Is efficient disposal assured at a reasonable price for the ten year planning horizon?</li> <li>• What changes in the disposal system are being contemplated?</li> <li>• What changes should be contemplated with consideration to anticipated growth and disposal demands?</li> </ul>		
Planned capacity assurance - <i>life expectancy addressed?</i>		
Enterprise fund for Class I landfills or incinerators		
<b>Chapter 7- Problem Wastes</b>		
<del>Has County</del>		
Level of success with household hazardous waste collection and level of satisfaction with the State program.		
Permanent household hazardous waste collection center? <i>Plans for disposal of HHW especially if not using state program</i>		
Waste tire - site(s) available What happens to waste tires in the Region once they are collected		
Problem with waste tire dumping? <i>How are problems being addressed and what are future plans to eliminate problem?</i>		
Lead acid battery, oil and auto fluid collection <i>Plans to expand?</i>		
<b>Chapter 8 - Solid Waste Education</b>		
Persons or organizations with active efforts to educate the public		
Outstanding needs in the area of public solid waste education		
What progress has been made and what is planned?		
Has the county or its Region filed an education action plan and made use of the Division of Community Assistance's <u>Pathways to Education</u> book?		
<b>Chapter 9 - Flow Control &amp; Permit Review</b>		
Attempt to control the flow of waste <i>If yes, provide details of what is involved by law to make sure they understand</i>		
Issues with regard to permit review or flow Control?		
<b>Chapter 10 - Five -Year Plan Update Review</b>		
Public hearing details & comments		
Local planning Commissions notification?		
Resolution from every county in the Region approving the Five-Year Plan update.		
Resolution of approval from the Part 9 Authority Board of Directors (if applicable)		



STATE OF TENNESSEE  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
Division of Community Assistance  
L & C Tower, 8th Floor  
401 Church Street  
Nashville, TN 37243-1533

**Certified Mail**

March 27, 2003

Mr. John Evans  
Knox County Solid Waste Director  
Department of Engineering & Public Works  
205 West Baxter Avenue  
Knoxville, TN 37917

Dear Mr. Evans:

I have reviewed your letter of March 18, 2003 addressed to Joyce Dunlap concerning Knox County's 2000, 2001 and 2002 annual progress reports and the Five Year Update to the regional solid waste plan. I want to point out that Knox County is not in compliance with the Solid Waste Management Act of 1991 concerning submittal of the 2000 and 2001 annual progress report and the Five Year Update. Until such time as the reports are submitted, signed by the solid waste planning board chairman and county executive, Knox County is not eligible to receive grant funding or services authorized by the Solid Waste Management Act of 1991. In order to receive grant funds allotted for fiscal year 2003, the above referenced signed documents must be received no later than May 1, 2003 in order for grants to be processed prior to the end of the fiscal year.

If you have any questions or need additional information, please let me know.

Sincerely,

Ron Graham, Director  
Division of Community Assistance

Cc: The Honorable Mike Ragsdale, Knox County Executive  
Ms. Chris Garkovich, UT-CTAS  
Mr. Mitch Loomis, East TN Development District  
Mr. Mark Penland, EC, Knoxville Environmental Assistance Center  
Mr. John Leonard, Assistant Commissioner for Environment  
Ms. Betsy Child, Commissioner, Tennessee Department of Environment  
and Conservation

U.S. Postal Service  
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Sent To:  
 Mr. John B. Cwano  
 Street, Apt. No. or P.O. Box:  
 Cwano Co Director of SW Division  
 City, State, ZIP+4:  
 205 W. Baxter Ave. Knoxville, TN 37917

PS Form 3800, January 2001. See Reverse for Instructions.

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Total Postage & Fees	\$	

Sent To:  
 Venerable Mike Ragsdale, <sup>Knox Co</sup> ~~Asst. Dir.~~  
 Street, Apt. No. or P.O. Box:  
 Room 615, City/Co. Bldg. <sup>400 Main Street</sup>  
 City, State, ZIP+4:  
 Knoxville, TN 37902

PS Form 3800, January 2001. See Reverse for Instructions.

**SENDER: COMPLETE THIS SECTION**

**COMPLETE THIS SECTION ON DELIVERY**

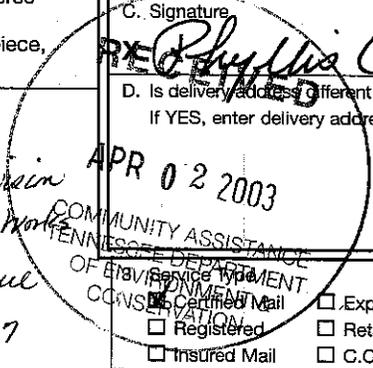
- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

A. Received by (Please Print Clearly) \_\_\_\_\_ B. Date of Delivery  
 3-31-03 TC

C. Signature  
 Phyllis Cline  Agent  
 Addressee

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

1. Article Addressed to:  
 Mr John B. Evans  
 Knox Co. Director of SW Division  
 Dept of Engineering & Public Works  
 205 W. Baxter Avenue  
 Knoxville, TN 37917



Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Copy from sender) 7002 0510 0002 3352 7526

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

The Honorable Mike Ragsdale  
Knox County Executive  
Room 615, City/County Bldg.  
400 Main Street  
Knoxville, TN 37902

2. Article Number (Copy from service label)

PS Form 3811, July 1999

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) *Alice Loy* B. Date of Delivery *7-31*

C. Signature *x Alice Loy*  Agent  
 Addressee

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

7002 0510 0002 3352 7533

Domestic Return Receipt

102595-99-M-1789



STATE OF TENNESSEE  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
Division of Community Assistance  
L & C Tower, 8th Floor  
401 Church Street  
Nashville, TN 37243-1533

**Certified Mail**

March 27, 2003

Mr. John Evans  
Knox County Solid Waste Director  
Department of Engineering & Public Works  
205 West Baxter Avenue  
Knoxville, TN 37917

Dear Mr. Evans:

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If you have any questions or need additional information, please let me know.

Sincerely,

A handwritten signature in black ink that reads "Ron Graham".

Ron Graham, Director  
Division of Community Assistance

Cc: The Honorable Mike Ragsdale, Knox County Executive  
Ms. Chris Garkovich, UT-CTAS  
Mr. Mitch Loomis, East TN Development District  
Mr. Mark Penland, EC, Knoxville Environmental Assistance Center  
Mr. John Leonard, Assistant Commissioner for Environment  
Ms. Betsy Child, Commissioner, Tennessee Department of Environment  
and Conservation

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Sent To: *Mr. John B. Cwano*  
 Street, Apt. No., or P.O. Box: *Area Director of SW Division*  
 City, State, ZIP+4: *205 N. Baxter Ave. Knoxville, TN 37917*

PS Form 3800, January 2001 See Reverse for Instructions

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Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To: *Honorable Mike Kagdale, Knoxville*  
 Street, Apt. No., or P.O. Box: *Room 615, City/Co. Bldg, 400 Main Street*  
 City, State, ZIP+4: *Knoxville, TN 37902*

PS Form 3800, January 2001 See Reverse for Instructions

7002 0510 0002 3352 7533  
 7002 0510 0002 3352 7533

7002 0510 0002 3352 7533



## OFFICE OF COUNTY EXECUTIVE

Department of Engineering & Public Works • 205 West Baxter Avenue, Knoxville, TN 37917

March 18, 2003

Joyce Dunlap, Manager  
Solid Waste Assistance Program  
Tennessee Department of Environment and Conservation  
401 Church Street, 8th Floor  
Nashville, Tennessee 37243-1533

Dear Joyce:

Knox County has a new Regional Solid Waste Planning Board. The five members will meet in the next few weeks to review the 2000, 2001 and 2002 plans and the Five Year Update. Expect the annual plans with signatures in the next few weeks. The five-year plan must first be reviewed by the Knox County Commission, which I expect to occur in April. I will keep you apprised of these activities as they come to fruition.

Sincerely,

John Evans  
Solid Waste Administrator  
Knox County Solid Waste

*Who is  
planning  
board chair?*

*Hand delivered to J. Dunlap on 3/20/03.*

**From:** Jim Poff  
**To:** Joyce Dunlap  
**Date:** 3/27/03 2:54PM  
**Subject:** Re: HHW Maintenance Grants

Jo,

Per John Leonard, we are to award the HHW Maintenance Grants. However, until Knoxville submits the Annual Progress Reports and Five Year Update, their HHW grant is on hold.

JIM

>>> Joyce Dunlap 03/27/03 01:43PM >>>

Ron just came by--he noticed in the weekly report that we are preparing the hhw grants for issuance next week. He said he thought that we were not to issue any new grants. I asked him to check and clarify, because our last instruction was to get those done and in the mail. I have told Ann to hold off till we hear from him.

J.

**CC:** Graham, Ron

**To: Wayne Brashears, TDEC DCA**  
**From: John Evans, Knox County Solid Waste Director**  
**Subject: 2001 Numbers**

Here are the numbers and how.

**Knox County**

**Class 1 Disposal**

357,945 tons

**Class III/IV**

209,065

**Yard Waste**

84,196 tons

**Recycling**

160,829 tons (plus 13,225 gallons of oil)

→ + 50.39 tons = 160,879.39

I kept my end of the deal. Send money.

John Evans



STATE OF TENNESSEE  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
Division of Community Assistance  
401 Church Street, 8th Floor  
Nashville, TN 37243-1533

CERTIFIED MAIL #7002 0510 0002 3352 7465

October 3, 2002

The Honorable Mike Ragsdale  
Knox County Executive  
Room 615, City/County Bldg.  
400 Main Street  
Knoxville, TN 37902

RE: Loss of eligibility for funds - Five-Year Update to Municipal Solid Waste Regional Plan

Dear Mr. Ragsdale:

On March 25, 2002, you were sent a notice that the Department of Environment and Conservation had not received the Five-Year Update to the Municipal Solid Waste Regional Plan for the Knox Co. Municipal Solid Waste Planning Region. The Solid Waste Management Act of 1991 [T.C.A. 68-211-814 (2)] requires that these plans be revised every five years after the plan's initial approval. The Region's plan update was due to be received by the Division of Community Assistance on November 16, 1999. When the solid waste region planning board for the county fails to comply with provisions of the Act, the county represented by the solid waste planning region board is in non-compliance and is subject to loss of funds and civil penalties [T.C.A. 68-211-816(a)].

The Knox County Solid Waste Planning Region and Knox County are no longer eligible for funding from the Solid Waste Management Fund as stated in [T.C.A. 68-211-816 (a) (2)]. To end this non-compliance with provisions of the Act, the Knox County Solid Waste Planning Region Board or Knox County must submit the plan update within 90 days of receipt of this letter. Staffs from the East Tennessee Development District and the University of Tennessee County Technical Assistance Service (UT-CTAS) are available to provide any assistance you may need to complete the plan update.



STATE OF TENNESSEE  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
Division of Community Assistance  
401 Church Street, 8th Floor  
Nashville, TN 37243-1533

CERTIFIED MAIL #7002 0510 0002 3352 7458

October 4, 2002

Mr. John B. Evans  
Solid Waste Administrator, Knox County Solid Waste  
205 West Baxter Avenue  
Knoxville, TN 37917

RE: Loss of eligibility for funds - Five-Year Update to Municipal Solid Waste Regional Plan

Dear Mr. Evans:

On March 25, 2002, you were sent a notice that the Department of Environment and Conservation had not received the Five-Year Update to the Municipal Solid Waste Regional Plan for the Knox Co. Municipal Solid Waste Planning Region. The Solid Waste Management Act of 1991 [T.C.A. 68-211-814 (2)] requires that these plans be revised every five years after the plan's initial approval. The Region's plan update was due to be received by the Division of Community Assistance on November 16, 1999. When the solid waste region planning board for the county fails to comply with provisions of the Act, the county represented by the solid waste planning region board is in non-compliance and is subject to loss of funds and civil penalties [T.C.A. 68-211-816(a)].

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STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
NASHVILLE, TENNESSEE 37243-0435

DON SUNDQUIST  
GOVERNOR

MILTON H. HAMILTON, JR.  
COMMISSIONER

**CERTIFIED MAIL #P800 250 803**

March 25, 2002

The Honorable Thomas H. Schumpert  
Knox County Executive  
Room 615, City/County Building  
400 Main Street  
Knoxville, TN 37902

RE: Failure to Submit Municipal Solid Waste Regional Plan Five-Year Update

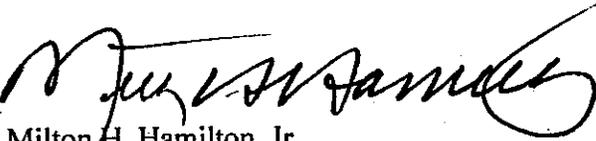
Dear Executive Schumpert:

The Department of Environment and Conservation has not received the Solid Waste Planning Region's Five-Year Plan Update for Knox County. The Solid Waste Management Act of 1991 [T.C.A. 68-211-814 (a)(2)] requires that the plan be revised every five years after the plan's initial approval. The Knox County plan update was due to be received by the Division of Community Assistance on November 16, 1999. When the solid waste region planning board for the county fails to comply with provisions of the Act, the county represented by the solid waste planning region board is in non-compliance and is subject to loss of funds and civil penalties [T.C.A. 68-211-816(a)].

To end this non-compliance with provisions of the Act, the Knox County Solid Waste Planning Region Board or Knox County must submit the plan update within 90 days of receipt of this letter. If the plan update is not received, the Knox County Solid Waste Region, and Knox County will lose eligibility for funds from the Solid Waste Management Fund [T.C.A. 68-211-816 (a)(2)]. If non-compliance continues, additional sanctions may follow [T.C.A. 68-211-816 (a)(3)].

I am certain that Knox County and the Knox County Solid Waste Planning Region will give these issues the serious consideration that is warranted. Staff from the East Tennessee Development District, and the University of Tennessee County Technical Assistance Service are available to assist Knox County to complete the plan update. If you need additional information, please contact Louis Bordenave with the Division of Community Assistance at 615-532-0095.

Sincerely,

  
Milton H. Hamilton, Jr.

MHH:RLG:LB:lr



STATE OF TENNESSEE  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
NASHVILLE, TENNESSEE 37243-0435

DON SUNDQUIST  
GOVERNOR

MILTON H. HAMILTON, JR.  
COMMISSIONER

**CERTIFIED MAIL**

June 14, 2001

Mr. Tom Haskins, Chairman  
Knox Co. Municipal SW Planning Region 47  
6701 Baum Drive, Suite 230  
Knoxville, TN 37919

RE: Five-Year Update to Ten-Year Solid Waste Plan

Dear Mr. Haskins:

The Department of Environment and Conservation has not received a reply to the comments due on March 25, 2001 concerning the Five-Year Update to the Ten-Year Solid Waste Plan for the Knox County Solid Waste Planning Region.

The Region must submit the required response within 90 days of receipt of this letter. Otherwise, the region and jurisdiction(s) within the region may lose eligibility for grants from the Solid Waste Management Fund. If non-compliance continues, additional sanctions may follow [T.C.A. 68-211-816].

I am certain that the Knox County Solid Waste Planning Region will give these issues the serious consideration that is warranted. If you need additional information, please contact Louis Bordenave with the Division of Community Assistance, at 615-532-0095.

Sincerely,

Milton H. Hamilton, Jr.

MHH:RLG:RPG

Cc: The Honorable Thomas H. Schumpert, Knox County Executive  
Mr. Mitch Loomis, East TN Development District  
Mr. John Evans, Director of SW Division, Knox County  
Ms. Chris Garkovich, SW Management Consultant  
Mr. Mark Penland, Knoxville Environmental Coordinator

**From:** Wayne Brashear  
**To:** Bordenave, Louis; Gorham, Rebecca P.; Knight, Bob  
**Date:** 5/23/01 3:38PM  
**Subject:** Knox Co. SW Planning Region

Just talked to John Evans in Knoxville. Tom Haskins has resigned as Chairman of the SWPR. They are working on getting him replaced.



STATE OF TENNESSEE  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
Division of Community Assistance  
8th Floor, L & C Tower, 401 Church Street  
Nashville, Tennessee 37243-0455

January 23, 2001

Mr. Tom Haskins, Chairman  
~~Knox Co. Municipal SW Planning Region~~ 40  
6701 Baum Drive, Suite 230  
Knoxville, TN 37919

Dear Mr. Haskins:

Thank you for the submission of Knox County's ~~Five-Year Update~~ to the ten-year solid waste plan. The following comments are provided based upon review of the revision and other relevant documents and requirements.

- **Summary:** Your update to your regions solid waste plan should include a summary of no more than 10 pages outlining the other chapters of the in the document as well as your regions future plans for solid waste disposal and reduction. Other things that should be in this summary include an Implementation schedule illustrating current and planned facilities and programs as well as a map of the region showing facilities and programs.
- **Chapter 2.1:** As well as identifying the region and listing counties that make up the region you must list all municipalities within the region.
- **Chapter 2.3:** The update should include a list of the region's Solid Waste Boards members with job titles, addresses, and phone numbers.
- **Chapter 2.6:** This section should include a description of the Solid Waste Boards process for addressing the public when such is needed.
- **Chapter 2.8:** This section was not properly completed. It should include a list of municipalities in the region that have door to door collection service the county the municipality is located in and the population of the municipality.

- **Chapter 2.11:** The update needs to include a description of revenues involved in public funding for solid waste programs and expenses in the region (including capital cost considerations, staffing requirements, and operating expenses). Questions that should be answered in this section include; is the current system satisfactory, are revenues meeting costs, and what new expenses and/or new fees or revenues are needed or anticipated?
- **Chapter 2.13:** Also in this update there should be a projected budget for the next ten years for the solid waste activities for the region.
- **Chapter 3.1:** Please include individual tonnages and information sources in addition to the regions overall tons disposed.
- **Chapter 3.2:** For this section you should attempt to estimate what percentage of your waste disposed of in class I facilities was generated by the various sources listed.
- **Chapter 3.3:** For this section you should attempt to estimate what percentage of your waste disposed of in class I facilities was composed of the various materials listed.
- **Chapter 3.4:** This section is missing some needed narrative. There should be a discussion of your reasons for making the estimations you did in this section. That discussion should make specific mention of programs and facilities that would contribute to the estimated figures. There should also be a Flow Diagram with this section showing the flow of solid waste within the region.
- **Chapter 3.6:** This section should include a list of the major employers in the region as well as a description of these employers contribution to the regions waste stream and waste reduction efforts if any.
- **Chapter 3.7:** This list should include additional information about the regions largest waste generators. Information that should be present includes a name and phone number to contact each contributor. Also even though the largest single portion of a regions waste may be generated by the residents of a region, they are considered to be numerous individual contributors and should not be listed here.
- **Chapter 4.1:** This section should include a list of collection services available throughout the region, preferably in tabular format. Data that should be in the table include; the name the service is identified by, who the service is available to, how the service is paid for, and a short description of the service.
- **Chapter 5.2:** Part of the response to this section was 'see also, attached'. There were no attachments with your update, please provide whatever information was intended to be contained in attachments.
- **Chapter 5.4:** This section should include a list of recycling available throughout the region, preferably in tabular format. Data that should be in the table include; the

name the service is identified by, who the service is available to, how the service is paid for, and a short description of the service.

- **Chapter 6:** This entire chapter seems to be missing from your update. Please refer to the original guidelines for instructions on completing this chapter.
- **Chapter 7.2:** Included in information about your HHW facility should be contact information for the center.
- **Chapter 7.4-6:** These sections deal with waste tires. Information that should be included here is descriptions of how successfully the region feels it has met waste tire collection mandates as well as the regions level of satisfaction with its own and the states collection programs. There should also be a discussion of any future needs regarding waste tires and a description of any problems the region may be having with tire dumping.
- **Chapter 8.2:** This section was not addressed in your update. This section should address the anticipated solid waste education needs of the region as well as any current plans for the education programs in the region.
- **Chapter 10:** This entire chapter seems to be missing from your update. Please refer to the original guidelines for instructions on completing this chapter.

The information requested above should reach this office not later than March 25, 2001. If you have questions or need assistance, please feel free to contact me at (615) 532-8004.

Sincerely,



Jason Freeman,  
Waste Reduction Section

Cc: The Honorable Thomas H. Schumpert, Knox County Executive  
Mr. John Evans, Director of SW Division, Knox County  
Mr. Mitch Loomis, East TN Development District  
Ms. Chris Garkovich, SW Management Consultant, CTAS  
Mr. Mark Penland, EC, Knoxville Environmental Assistance Center



STATE OF TENNESSEE  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**

Division of Community Assistance  
401 Church Street, 8<sup>th</sup> Floor  
Nashville, TN 37243-1533

May 1, 2000

Mr. Tom Haskins  
Chairman  
Knox Co. Municipal SW Planning Region  
6701 Baum Drive, Suite 230  
Knoxville, TN 37919

RE: Five-year Update to Ten-year Solid Waste Plan  
Knox Co. Municipal SW Planning Region SW Region Ten-year Solid Waste Plan

Dear Mr. Haskins:

We have received a Five-year Update to the Knox Co. Municipal SW Planning Region SW Region Ten-year Solid Waste Plan, submitted by Mr. John Evans, Director, Knox County Solid Waste. According to our records, your Revised Plan was due to be submitted by November 16, 1999, and you received a Commissioner's Warning letter regarding non-submittal, dated January 6, 2000. We received the referenced revised plan on April 5, 2000. Division staff will review the plan within the next 90 days as required by The Solid Waste Act of 1991.

If you need additional information or have further questions, please contact Karen Grubbs at 615-532-0463.

Sincerely,

A handwritten signature in cursive script that reads "Ron Graham".

Ron Graham  
Director

RG:klg

C: Commissioner Milton Hamilton, Jr.  
The Honorable Thomas H. Schumpert, Knox County Executive  
Mr. John Evans, Director of SW Division, Knox County  
Mr. Mitch Loomis, East TN Development District  
Ms. Chris Garkovich, SW Management Consultant, CTAS  
Mr. Mark Penland, Coordinator, Knoxville Environmental Assistance Center

County Executive  
Thomas Schumpert



review EAW phone  
John 11/22/00  
220  
Department of  
Engineering & Public Works

April 4, 2000

Karen Grubbs  
Waste Reduction Section Manager  
State of Tennessee  
Department of Environment and Conservation  
Division of Community Assistance  
8<sup>th</sup> Floor L & C Tower, 401 Church Street  
Nashville, TN 37243-1533



Re: Knox County Regional Solid Waste Plan

Dear Ms. Grubbs:

Enclosed is the substantially complete draft of the five-year update of Knox County's Regional Solid Waste Plan. As it stands now, the board will meet April 17<sup>th</sup> to vote on the final draft. A public hearing will be held the first week of May (date to be set). The Metropolitan Planning Commission will consider the plan at its May 11<sup>th</sup> meeting and the Knox County Commission will consider it May 22<sup>nd</sup>. I hope this suffices for your purposes. Expect the final document by Memorial Day. If you have any questions or comments please notify me.

Sincerely,

John B. Evans  
Director, Knox County Solid Waste

cc: Tom Haskins  
Thomas Schumpert



# **REGIONAL SOLID WASTE PLAN FIVE YEAR UPDATE**

(1993 - 1999)

**DRAFT**

**Knox Solid Waste  
Planning Region**

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## Summary

### CHAPTER I: SUMMARY

#### SUMMARY

### CHAPTER 2: GENERAL INFORMATION

1. Name of Region: Knox  
Name of Counties within Region: Knox County
2. Knox County population -- 361,407 (1995 census, provided by TDEC)
3. Regional Solid Waste Board Members
4. Has the Region formed a Part 9 Solid Waste Authority or dissolved one?  
No
5. Solid Waste Contacts:  
John Evans, Solid Waste Administrator  
Athena lee Bradley, Recycling Coordinator  
Tom Haskins, Solid Waste Board Chairperson  
Address: Knox County Solid Waste Division  
205 W. Baxter Avenue  
Knoxville, TN 37917-6493  
Telephone: (423) 215-5865
6. Describe activities and workings of the Solid Waste Board:  
The Board was primarily responsible for drafting the Region's Ten Year Plan. The Board continues to meet approximately quarterly, or more regularly as needed. At such meetings Solid Waste staff provide an overview of Division activities and current issues are discussed. Board members provide input, make decisions for solid waste direction, approve resolutions regarding solid waste permits, etc.
7. Initial Region formation:  
Knox County initially discussed formation of a Region to include other counties, however, as Knox County is far more urbanized than surrounding counties it was deemed more appropriate for the County to form it's own region. This status is satisfactory.
8. Municipalities in Region with door-to-door collection:  
Knoxville BFI door-to-door service, via contract with City. Population--  
Farragut Residents have option of curbside through contract with hauler.

9. Describe the Region, general, geographically and demographically  
Knox County is a mixed urban, suburban and rural county. Knoxville is the largest urban area, approximately half the county's population, lies more or less in the center of the county. Most commercial activity centers around Knoxville, although large industrial parks, suburban strip malls and small businesses are found throughout the county and in Farragut. Approximately 60 percent of the region's waste comes from commercial establishments--the region is host to numerous small businesses, groceries, restaurants and the like. The University of Tennessee has 25,000 students in attendance and is a large generator of waste in the region.

10. Does the Region charge a fee for solid waste services?

No, the region does not charge a fee. Residents may subscribe for service directly with a hauler to which they pay collection/disposal fee. Most businesses must also contract directly with a local hauler.

11. Describe the costs and revenues involved in public funding for solid waste programs and expenses in the Region (to include capital cost considerations, staffing requirements, and operating expenses).

Is the current system satisfactory? Are revenues meeting costs?

What new expenses and/or new fees or revenues are needed or anticipated?

12. Do all relevant jurisdictions in the Region use uniform financial accounting methods and account for solid waste activities with a named designated special revenue or enterprise fund?

Yes

13. Include a proposed 10-year solid waste budget for the Region.

See Appendix

List the contacts in the Region for information regarding solid waste budgets.

John Evans, Solid Waste Administrator

Address: Knox County Solid Waste Division  
205 W. Baxter Avenue  
Knoxville, TN 37917-6493  
Telephone: (423) 215-5865

### Chapter 3: Waste Stream

#### 1. Generated and disposed Tonnage Figures for 1998

The number of tons of solid waste generated within the region and disposed of in CLASS-I LANDFILLS OR INCINERATORS, IN OR OUT OF THE REGION, during 1998 was **373,985 tons**.

In order to determine if you have met the 25% waste reduction goal in 1998, use the following formulas to determine the 1998 percentage rate:

To **estimate** the 1998 per capita rate, divide the region's 1998 disposed tonnage (see paragraph C [page 4] above) by the region's population in 1996 (refer to column 4 of the *Region by Region Information* chart provided by the Division.)

$$373,985 / 368,183 = 1.02$$

2. To determine your progress toward the 25% goal, subtract the region's 1998 per capita rate from the region's 1989 base year per capita rate (refer to column 2 of the *Region by Region Information* chart provided by the Division), then divide the difference by the 1989 base year per capita rate and multiply your answer by 100.

$$1991 \quad 1.16$$

$$1998 \quad 1.01575\dots$$

$$.14/1.16 = .1245 \times 100 = 12.43\%^1$$

2. Estimate the percentage of tons reported in #1 above using the following categories

Residential:

Commercial:

Industrial:

Institutional:

Other:

3. Estimate the percentage of tons reported in #1 above using these categories:

Yard waste:

Construction/demolition waste:

Tires:

Recyclables:

White goods:

Regular Municipal Solid Waste:

4. Estimate, by strategy, the percentage of reduction goals for the region and the percentage achieved.

<need tons>

<b>Strategy</b>	<b>Ten-Year Plan %</b>	<b>% Achieved</b>
Diversion	<u>6.5%</u>	<u>1.84%</u>

<sup>1</sup> Numbers vary slightly due to rounding.

Recycling	<u>10.02%</u>	<u>8.81%</u>
Composting/Yard Waste	<u>9.9%</u>	<u>1.78%</u>
Source Reduction	<u>.01%</u>	<u>.01 %</u>
<b>Total</b>	<b>26.43%</b>	<b>12.43%</b>

Flow diagram

### 5. Demographic trends

East Tennessee has grown very rapidly in population in recent years. Knox County's population grew 8.6 percent from 1990 to 1996; other counties in East Tennessee have witnessed growths of 20 percent or more. This is significant, since Knoxville serves as the "urban" base for most of these communities. Thus, the impact of these population increases on our commercial waste and construction debris generation is undoubtedly substantial.

### 6. Discuss the economic condition of the Region.

The region's economy has been growing at a steady pace <?>. The unemployment rate continues to be at record lows, < ?> The region has a large number of small businesses, restaurants and construction which contribute to the growing waste in the Region. Additionally, these same factors have limited recycling incentive, as disposal rates in the Region are low and recycling options may not be cost effective.

### 7. Largest contributors to waste stream.<sup>2</sup>

Some of the major contributors to the Region's waste stream include:

Travis Meats	JFG
Thilmany	John Deere
University of Tennessee	Grocery stores
Knox County residents	Distributors
IHGT	Kroger
Ingles	Food City

### 8. Litter programs

Both the City of Knoxville and Knox County have litter enforcement agents. The County also sponsors an Adopt-a-Highway program. See description in \_\_\_\_.

#### *City of Knoxville Solid Waste Inspectors*

In an effort to promote cleaner neighborhoods, a Solid Waste Inspection Division was formed. Their primary focus is enforcing regulations concerning the garbage can ordinance, construction and demolition debris, illegal dumping, and oversight of

---

<sup>2</sup>Please note, no hauler would provide the list of exact contributors to the regions trash, tonnage rates or any other information as they deem proprietary. As Knox County does not do the hauling, nor own the landfill it is not possible to get this information.

the recycling drop-off centers. In the last few months of 1998, over 80 citations were written for solid waste code violations and we have achieved a 98% conviction rate. This program has been well received by the public and is having a noticeable impact on cleaning up neighborhoods.

### **Update on the Knox County Environmental Court**

The Environmental Court has completed its third year of operation. In 1998, more than a dozen citations were issued for Criminal Littering under a County Ordinance passed the previous year. More importantly, news stories in the daily newspaper, all news radio and television news program about the litter "crackdown" have sparked a lot of positive word-of-mouth responses in the community. News organizations also have pledged to report any significant litter citation stories as they arise. All solid waste, illegal dumping, and related regulations are being enforced through local ordinances. At least thirty individuals involved with codes enforcement and litter law have been deputized so that they can issue citations. Fines for criminal littering can be up to \$500 per day. Revenues received from such fines are placed in the litter abatement fund.

### **Update on the Knox County Adopt-A-Road Program**

In 1996, Knox County Solid Waste developed a program similar to the State Adopt-A-Highway effort to solicit volunteer groups for litter pick-up along the 1200 miles of County roads. Twenty civic and community groups cleaned up more than 40 miles of Knox County roadsides and several more have signed up for 1998. To participate, volunteers must agree to pick up litter at least twice a year over a minimum of two miles. Knox County provides litter bags, work gloves, reflective vests and warning signs. After a group's first pickup, Knox County erects a sign along the roadside giving them credit for their efforts.

#### **Contacts:**

John Evans, Solid Waste Administrator

Address: Knox County Solid Waste Division

205 W. Baxter Avenue

Knoxville, TN 37917-6493

Telephone: (423) 215-5865

9. Does the Region perceive the "economic growth adjustment formula" analysis for reporting solid waste disposal figures would express progress on the State's 25 percent waste reduction goal in a more equitable fashion:

Yes, as the Region continues to grow economically as well as in population, it will provide a more accurate picture of the Region's diversion through factoring

economic growth.

10. Explain how the propose base year change (1995) might affect your Region.

11. Current reduction and diversion programs

**Knox County and City of Knoxville Solid Waste Programs  
Program update: 1993-1998**

**Knox County Solid Waste Services**

- The County now operates eight, fully staffed Solid Waste and Recycling Convenience Centers which provide disposal opportunities for all County residents.
- In 1998 , Knox County opened the Forks of the River Convenience Center servicing Southeast Knox County, offering full service recycling and garbage drop-off. This state-of-the-art site is located on two acres of land and allows for recycling of all residential commodities (with the exception of mixed paper until markets improve), as well as full-scale operation of refuse compacting, collection of scrap metals, used oil, used oil filters, antifreeze and tires. In December 1999, the County added a two acre pad to collect residential yard waste for mulching. The site has room for additional services as the County deems necessary.
- In December 1998, the County reopened the John Sevier Center, servicing South Knox County. The John Sevier Convenience Center is now seven times its original size. This award-winning Center has three compactors for garbage; one compactor for cardboard; two open top bins for bulky waste; bunkers for scrap metal, tires and other diverted materials; roll-off recycling bins for aluminum and metal cans, newspaper, plastic bottles and glass bottles; and, a container for oil recycling. It also contains several environmentally-oriented features including a geothermal water pump and day-lighting in the Center attendant house.
- The study of possible relocation of several Convenience Centers continues, as well as the expansion of existing property. The Karns Convenience Center will be expanded and moved westward; renovation is in the design stage. The Tazewell Pike and Dutchtown Convenience Centers are in the design stage for expansion where they currently exist. Halls Convenience Center has been temporally

expanded on the existing site in order to allow for collection of recyclables using the County's roll-off system. A new location for the Halls Center has been found and is in development.

- Knox County continues operation of the roll-off system for collection of recyclables at Convenience Centers and has expanded it to all but two of the Centers.
- Knox County Solid Waste staff continues to promote the waste and recycling collection services available to all residents and businesses located in the County through direct resident and business subcontracting with private haulers. As the region grows to be more urban and suburban, curbside collection will prove to be more appealing to many residents. Currently, only one hauler, Browning-Ferris Industries (BFI), offers curbside collection of refuse and recyclables to all County residents (including Farragut residents). At least five other haulers also offer weekly refuse services to County residents.

#### City of Knoxville

- During the past five years, the City of Knoxville continued to show positive progress in the development of solid waste programs. In 1998, the City instituted tip fees at the Transfer Station, began active enforcement of the solid waste ordinances, and had their first full year of operations at the Household Hazardous Waste Facility. All of these programs have been successful and demonstrate the continued interest in and growth of the City's comprehensive solid waste management program.

Some notable statistics of the City of Knoxville's residential waste stream for 1998:

- The total waste stream increased by 7,429 tons or 5 percent.
- The diversion rate increased to 51.16% from 42.36% in 1997.
- The recycling rate increased to 24.42% from 22.51% in 1997.

These numbers seem to indicate that the City's recycling, composting, and municipal solid waste (MSW) separation programs continue to grow successfully, but efforts to minimize the waste stream through education are not yet achieving the desired effects.

- The City's disposal contract for MSW will expire in 2000 and, therefore, is being

be re-bid. A total of 42,853 tons of garbage was collected from Knoxville homes in 1998 as part of the weekly garbage collection service the City offers via its contractor, BFI. This number reflects a two percent decrease from the previous year. The City is currently in a five-year contract with BFI that expires in 2001.

Current collection costs per this contract are:

Curbside Collection	\$3.23/house/month
Backdoor Collection	\$5.28/house/month
Central Business District	\$12,100/month

All garbage is disposed of at the Chestnut Ridge Landfill operated by Waste Management Inc. The City is currently in a ten-year contract with Waste Management that expires in 2000. Disposal costs for 1998 were as follows:

Jan - Oct.	\$25.56/ton
Nov. - Dec.	\$25.78/ton

- A total of 4,258 tons of recyclables was collected at the City's twelve drop-off recycling centers in 1998. Five of these Centers are staffed via a contract with Goodwill Industries; the other staff Center is at the Solid Waste Facility and staff by City employees. This number is up almost 11% from 1997. Nine Knoxville recycling drop-off centers now offer mixed paper recycling. Additionally, the City provides curbside collection of yard waste and bulky goods.

### *City of Knoxville's Solid Waste Management Facility*

In April 1997, renovations were completed at the Solid Waste Management Facility located at 1033 Elm Street. The complex now contains three major facilities: the Transfer Station, the Materials Recovery Facility, and the Household Hazardous Waste Collection Center. This complex has received national recognition and continues to be visited by government representatives from across the Southeast region.

#### Transfer Station

When the Transfer Station was redesigned in 1997, one of the goals was to be able to separate construction waste (C&D) from MSW. This would allow the City to save money by sending C&D waste to a Class III landfill and also enable them to comply with the State waste reduction mandate. In 1998 the City diverted almost 22,000 tons of C&D waste to a Class III landfill. This was nearly 50% of the waste received at the Transfer Station.

#### Materials Recovery Facility (MRF)

See Recycling below.

## Household Hazardous Waste (HHW) Collection Center

See HHW below.

## Solid Waste Inspectors

In an effort to promote cleaner neighborhoods, a Solid Waste Inspection Division was formed. Their primary focus is enforcing regulations concerning the garbage can ordinance, construction and demolition debris, illegal dumping, and oversight of the recycling drop-off centers. In the last few months of 1998, over 80 citations were written for solid waste code violations and have achieved a 98% conviction rate. This program has been well received by the public and is having a noticeable impact on cleaning up neighborhoods.

## Construction and Demolition Landfill Status in Knox County

- Fay Portable Buildings (Knoxville) continues to operate a Class III/IV Landfill (the Poplar View Landfill, in East Knox County) and another Class IV landfill (the Ridgeview Landfill in Northwest Knox County). Both are open to private haulers and the general public.
- Additionally, the Yarnell Road construction and demolition landfill opened in early 1999.
- Liberty Waste Services (formerly Tennessee Waste Movers), a waste hauler and operator of a mixed waste processing center, does haul considerable construction debris from Knox County to a permitted construction and demolition landfill located in Loudon County.

## Additional information pertaining to Knox County.

	<u>1996</u>	<u>1997</u>	<u>1998</u>
a. Survey of roadside dumps	40	38	29
b. Citizen complaints	119	N/A	N/A
c. Alternative systems available	All	All	All
d. Volume of waste received or collected by existing systems	<u>357,771 tons</u>	<u>370,459 tons</u>	<u>373,985 tons</u>

## Recycling

- A total of 3,070.72 tons were recycled from Knox County Convenience Centers in 1998. The County now hauls all materials from all but two of its Centers using the roll-off system; as the remaining Centers are expanded (or relocated) the roll-off system will be put into place in those Centers. The County collects metals (scrap, aluminum & bi-metal containers), glass bottles, plastic bottles coded 1 & 2 (PET/HDPE) and newspaper. Cardboard is collected at four Centers.

In 2000, magazine/catalogue or mixed paper recycling will begin at least two Centers on a trial basis. Eventually, the goal is to collect all paper grades, including mixed paper from all Centers, as the market allows. County staff also use the roll-off system to make the collection of tires more efficient, as well as for pick-up of trash at illegal dumps. The roll-off is also used for hauling brush, Christmas Trees and telephone books (for recycling).

- A total of 4,258 tons of recyclables was collected at the City's twelve drop-off recycling centers in 1998. This number is up almost 11% from 1997. All commodities increased except brown glass, with paper products and plastic showing the largest gains. Contracts for operating the centers with BFI and Goodwill Industries were both renewed for one year and we added a Goodwill trailer and staff to the Market Place location. Nine (of eleven) Knoxville recycling drop-off centers now offer mixed paper recycling.
- As part of the renovations at the Solid Waste Management Facility (SWMF) on Elm Street, the City built a small Materials Recovery Facility that houses a baler. In 1997, the City began processing and marketing cardboard brought to the SWMF. In addition, a recycling trailer was purchased for the collection of all other recyclables, making the SWMF another drop-off center. Businesses, in particular, are encouraged to bring recyclables to the SWMF free of charge. In 1998, these facilities were beginning to be used more heavily and there was a six-fold increase in materials over the previous year.
- The City's downtown area cardboard/office paper recycling program continues. All businesses in the Central Business District which receive garbage collection from the City are eligible for participation.

- Implementation of multi-faceted commercial waste reduction and recycling began five years ago. Program includes development of guides for hospitality establishments and offices, sponsoring of roundtable events for targeted commercial sectors, providing technical support and more.
  - "Serve and Recycle," the Waste Reduction and Recycling Packet for the Hospitality Industry continues to be distributed to hotel/motels, restaurants, and educational institutions which have dining services in the Knoxville, Farragut and Knox County area. Additionally, the County's Recycling Coordinator and Recycling Intern are available to conduct waste audits upon request, as well as provide assistance in waste reduction and recycling program set-up.
  - An Office Waste Reduction and Recycling Packet was developed to provide information to offices and office complexes about how to set up a recycling program, available haulers, waste reduction techniques, and more.
  - The Environmental Recognition Program, GREEN SENSE-GREEN CENTS, continues to be promoted to businesses. This program evaluates businesses on their efforts to reduce waste, practice energy conservation, lower their usage of hazardous cleaning products and other environmental measures. Recipients of the award receive a decal featuring the program logo, as well as newsmedia recognition.
- Recycling of all office grade paper, cardboard and aluminum cans continues at the City-County Building, the Andrew Johnson Building, the Fifth Avenue Annex Building (both housing school administration), the County Health Department, Knox County Detention Facility, and the Public Works buildings for both the City and the County. Composting also continues at the City-County Building.
- County Solid Waste staff and other agencies annually coordinate the Countywide recycling of Christmas trees. Volunteers, including several area landscaping companies, staffed four Christmas Tree recycling locations. Trees were ground on-site and mulch given away for free.
- The annual telephone book recycling is coordinated through the City of Knoxville, with assistance from the County. Each year on average more than 90,000 telephone books are diverted from the landfill. School children participate in a poster design contest, a telephone book sculpture contest and competition for

the collection of the most (and per capita) telephone books for recycling.

- More than a ton of materials have passed through the Knoxville Recycling Coalition's Waste Xchange since it officially opened in June of 1998. The Waste Xchange rescues useable materials from businesses and makes them available to teachers, scout leaders, non-profits, churches, small businesses and others wanting low cost materials and supplies. Materials include: office supplies, such as hanging file folders, binders, manila folders, computers, filing cabinets, and furniture, as well as other odds and ends, such as film canisters, buckets and carpet scraps.

The purpose of the Waste Xchange is to reduce the volume of materials going to the landfill, to save resources and to make low cost supplies available for organizations and schools that need them. Businesses donating materials to the Waste Xchange benefit by reducing their disposal costs and receiving a tax deduction for their donation. The Coalition picks up donated materials free of charge. The Xchange is operated out of the City of Knoxville Solid Waste Transfer Station.

- In 1997, with assistance from a grant received from the State Division of Solid Waste, Knox County constructed a child's playhouse made from recycled and reused materials. The Conservation Cottage is a display house built with *new* products made from recycled materials--everything from tiles made out of recycled glass bottles and carpet made from soda bottles to wall boards made from recycled paper and roofing made from aluminum cans. Other conservation products, including low-flow faucets, an energy-efficient window, a solar-powered radio, and more are also featured. The display house shows environmentally-friendly products that can be used in everyday living.

The Conservation Cottage is a permanent display at Ijams Nature Center located in South Knoxville. The display is designed in a manner which is interactive, hands-on and educational for children of all ages and adults.

## Compost

### City of Knoxville's Yard Waste Mulching Program

- The City of Knoxville's yard waste mulching program has been in continual operation since November 1994. The City does its own collection of materials, picking up both leaves and brush that residents leave at the curb. An average of 90 to 100 trucks go into the facility each day. The facility is equipped with scales for weighing of all material. A total of 27,304 tons of yard waste was collected by City crews in 1998. This number is up by about 4,000 tons from last year. All yard waste is taken to Shamrock Organic Products where it is turned into mulch products. The City is currently in a six year contract with Shamrock that expires in 2002. Costs for disposal in 1998 at Shamrock were:

Jan. - Sept. \$30/ton

Oct. - Dec. \$31/ton

- The City of Knoxville, with a contract with Norseman Plastics, distributed more than 2000 backyard compost bins to area residents in February 1996. In 1998, the City of Knoxville organized the region's third annual composting bin sale, held in March, with over 800 backyard composters sold, some 350 of the purchasers were educated in the process of composting.

### Master Composter Program and general composting activities

- An Assistant Extension Agent from the University of Tennessee Agricultural Extension Service has been working on solid waste management issues in Knox County since September 1994. He is responsible for planning, implementing, evaluating, and reporting on educational programs regarding the reduction of the amount of landfilled organic solids.
- Additionally, both the City and the County Solid Waste offices, as well as the Knoxville Recycling Coalition and Ijams Nature Center also offer regular composting programs.
- In the Spring of 1995, Knox County implemented Tennessee's first Master Composter/Recycler Program with 52 volunteers. Graduates fulfilled their obligatory 40-hours of volunteer composting and recycling duties through

maintenance of demonstration compost areas, presentations to schools and neighborhood groups, establishment of community or school compost areas and more. These volunteers have completed over 800 hours of volunteer work in solid waste education. Implementation of Tennessee's second Master Composter/Recycler Program with 29 volunteers in the Spring 1996. Program graduates have completed over 800 hours of volunteer work. The Master Composter Recycler Program was again held in the Fall of 1997 with 18 graduates. Some 49 volunteers from the program reported in excess of 4,200 contacts during the calendar year 1997. Many members from previous classes are still active volunteers in the community.

- ▶ In total there are eight composting demonstration sites now in Knox County. Sites include: Farragut, Halls, and South Doyle High Schools; the City-County Building and the Knox County Regional Farmer's Market. An on-farm demonstration on the benefits of compost was put together in the Spring of 1995.
- ▶ A TORO Mulching Mower promotional was sponsored by the County in Spring of 1995, in which 50 mulching mowers were given to citizens for three months. This promotional saved an estimated 800 bags of grass from the landfill. In Spring 1996, Knox County again sponsored a TORO Mulching Mower promotional in which 50 mulching mowers were given to citizens for three months. This promotional saved an estimated 800 bags of grass from the landfill. In 1997, 64 mulching mowers were distributed for use in the County. From this project, it was calculated that 700 tons of grass and leaves were kept out of the landfill. Out of the participants 48% of the mowers were purchased and kept in service.
- The Composter on Wheels or "C.O.W.," a mobile compost demonstration trailer for compost educational activities, features various composting bins, signage about composting and mulching, literature display and more. The C.O.W. can be regularly seen at schools and community events. The C.O.W. was funded through a grant from the State.
- In 1997, the County offered a special compost bin sale, with implementation of four backyard composting workshops with over 150 participants and distribution of 80 compost bins to residents and schools at subsidized price. A similar project was offered in the fall of 1999, specifically targeting schools.
- Garden clubs, boy scout troops, environmental clubs, master gardener groups, college classes, and civic clubs were all given programs on composting and organic waste

reduction. One particularly exciting program was presented at the University of Tennessee Turf and Grounds workshop, in which, 250 landscapers were trained on the importance and identification of good quality composts and mulching materials available. In all, in 1998, there were 24 workshops and presentations were given with 1200 people reached.

- In 1998, eight programs were given on composting, mulching, grasscycling, leaf mulching, etc. The programs were all two-three minute segments on WBIR Ch. 10 which reached in total 320,000 households.
- Improperly cured mulch has caused a great deal of damage to landscaping material including some established planting. Many hours were spent looking at different problems and helping homeowners and landscapers to remedy those problems. 110 calls were logged and 20 visits were made during 1998.

#### Compost Operations Plans in Knox County

- In 1998, Knox County Solid Waste Division purchased property in West Knox County to use for a composting/mulch facility. The County would most likely accept leaves/brush at selected Solid Waste and Recycling Convenience Centers and transport the leaves to a central location for processing into mulch. The mulching site would also most likely operate as a drop-off location for leaves/brush (from landscapers and residents) that would then be processed through a grinder. Bids for a grinding operations went out in the fall of 1999.

#### School Composting activities

- The Knox County Recycling Coordinator developed and distributed a "Guide to School Composting" to all schools in Knox County. This guide continues to be distributed and used at Knox Schools.
- The Coordinator also developed a guide to worm composting, worm learning activities, teacher/student teaching guidelines, student learning activities and other information for use in the schools. The Recycling Coordinator and the Master Composter presented a teacher in-service on worm composting and science activities to 25 teachers in the fall of 1998. Each teacher received a worm compost bin and worms for their classroom. The in-service was coordinated through the Knox Schools Science Advisor. At least 25 classes received worm composting lessons in

1998.

- The Recycling Coordinator and Master Composter have presented the worm composting overview and set-up bins at some 20 different schools, reaching hundreds of students. The Recycling Coordinator also offers science learning with worms to classes on a regular basis.
- As much as 40 percent of school garbage is food waste thus, composting can help reduce a school's waste while fostering a valuable learning experience in the biological processes of decomposition, soils formation, the food chain and more. By 1998, at least 25 schools in the Knox School District were composting their cafeteria wastes one or more days per week or have set up worm bins in some of their classes.

#### Litter/Environmental Court

- In 1996, Knox County Solid Waste developed a program similar to the State Adopt-A-Highway effort to solicit volunteer groups for litter pick-up along the 1200 miles of County roads. Twenty civic and community groups cleaned up more than 40 miles of Knox County roadsides and several more have signed up for 1998. To participate, volunteers must agree to pick up litter at least twice a year over a minimum of two miles. Knox County provides litter bags, work gloves, reflective vests and warning signs. After a group's first pickup, Knox County erects a sign along the roadside giving them credit for their efforts.
- The Environmental Court passed its third year of operation in 1998 with more than a dozen citations issued for Criminal Littering under a County Ordinance passed the previous year. More importantly, news stories in the daily newspaper, all news radio and television news program about the litter "crackdown" have sparked a lot of positive word-of-mouth responses in the community. News organizations also have pledged to report any significant litter citation stories as they arise.

All solid waste, illegal dumping, and related regulations are being enforced through local ordinances. At least thirty individuals involved with codes enforcement and litter law have been deputized so that they can issue citations. Fines for criminal littering can be up to \$500 per day (increased to \$1,000 per day in 1999). Revenues received from such fines are placed in the litter abatement fund.

- The Great American Clean-Up, (formerly known as the Glad-Bag-a-Thon) sponsored by Keep Knoxville Beautiful, continues to be an outstanding effort to reach school children and adults to encourage numerous phases of anti-litter and proper disposal of solid waste.
- In 1998, two full-time staff were hired to work on coordinating litter and illegal dump clean-ups in Knox County. The Litter Crew works with probationers on a daily basis to clean-up illegal dump sites. An intern also works to promote the Adopt-a-Road by sending out regular mailings to churches, community groups and others. Additionally, the intern works with the Litter Officer and the Litter Crew to coordinate weekend Adopt-a-Road clean-ups.

### **Tire Storage and Processing**

- Knox County continues to process tires at a facility within the local Farmers' Market. In 1998, the site contractor diverted the equivalent of 50,000+ passenger and truck tires from disposal and to recapping. That left 4,869.30 tons that were sent to either Signal Mountain Cement near Chattanooga, Southdown Cement Company in Knoxville or GreenMan Technologies in Jackson, Georgia where the tires were processed for recycling.

## **CHAPTER 4: WASTE COLLECTION AND TRANSPORTATION**

### **1. Region's Collection Services**

See Attachment \_\_\_\_\_

### **2. Region's Collection Assurance**

The County provides adequate service to all residents through its eight county convenience centers. The City of Knoxville offers all city residents free door-to-door service. All county residents may also subscribe for solid waste collection service.

### **3. Collection needs in the Region and trends anticipated in next ten years**

The Knox Region has adequate solid waste collection services, through County hauling or contract services for its eight Convenience Centers. Additionally, the large number of independent haulers servicing the County continues to rise.

One future issue may be to implement some sort of permitting program. Also, the possibility

of a fee assessed to haulers to help provide recycling services.

<need landfill disposal information--Clyde)

Recycling services, however, continue to decline. Waste Management has discontinued virtually all recycling collection, except for a minimum number of cardboard collection. BFI has discontinued paper collection and offers limited cardboard collection. At this time the future operation of their materials recovery facility is also in question. There are several paper collectors for newspaper and cardboard, but only two for office paper. These two, Knoxville Recycling Coalition and Knox Recycled Fiber, collect office paper and cardboard. They offer the only commercial collection of office paper for businesses in the Region. There are a limited number of "jobbers" who collect cardboard from small business, but this service is intermittent, largely contingent on the market for cardboard. Otherwise, BFI will collect cardboard, but they charge a service charge, frequently not cost-effective for smaller generators, such as restaurants. Knoxville Recycled Fiber also offers limited cardboard collection.

## **CHAPTER 5: RECYCLING**

### 1. Region's Recycling Coordinator

Contact Athena Lee Bradley, Recycling Coordinator

Address: Knox County Solid Waste Division

205 W. Baxter Avenue

Knoxville, TN 37917-6493

Telephone: (423) 215-5865

### 2. Waste Reduction programs in Region

See listing of programs under Chapter 3, number 11, current reduction and diversion programs. See also, Attachment

### 3. Progress and setbacks in recycling and reduction efforts in Region

- Lack of markets to allow for cost effective collection of all recyclables, other than scrap metals.
- Low disposal fees and no direct payment of disposal for Knoxville residents and Knox County residents who use the Convenience Centers.

## **Recommendations of the Knox Regional Solid Waste Board Recycling Committee for the Five Year Plan Update**

### Original 10-year Plan and Update

- Maintain implementation of 10-year plan as described by Solid Waste Board, including Tasks as modified or suggested to be modified by staff. No significant modifications of Plan are to be made; slight modifications have been previously described in Annual Updates or will be addressed in Five Year Update.
- Committee requests full Solid Waste Board discussion of "pay-as-you-throw" issue.
- Committee requests that Solid Waste Board draft letter regarding importance of waste diversion to Nine County/One Vision discussion.

### Additional suggestions for Plan Update as determined by Recycling Committee

- a) Increase education on waste prevention--the barriers for recycling and composting are many.
  - Emphasize more promotion on existing programs for diversion (all agencies/organizations in Region working on solid waste issues) so that businesses, residents and institutions are fully aware of opportunities.
  - Utilize more news articles, presentations etc., for promotion and further education.
  - Work with professional organizations to explore possible compilation of advertising plan, such as UT PRSA, PRSA and others who might develop plan for us.
- b) Expand County-wide recycling program to include:
  - Mixed paper (through recycling and/or composting).
  - Electronics, light bulbs and computers.
  - Complete system-wide changeover to roll-off system for collection of recyclables and modernization of system.
  - Purchase oil filter crushing system for greater retrieval of oil and potential recycling of scrap metal from filters.
  - Develop market options for recycling of gas tanks and other hard to recycle items.
  - Purchase Freon removal system to better assist County residents and protect the environment.
- c) Reinstate scavenging at County Convenience Centers, through formal salvaging ordinance. Potentially establish reuse "sheds" at Centers for public access.
- d) Investigate the costs and benefits of County hauling of City recycling containers.
- e) Work with School Administration to document Earth Flag Team and other waste reduction efforts in schools in order to decrease school waste collection contract. Also, work with school administration to institutionalize Earth Flag. Also, make school cafeterias more self-serve and reuse oriented.
  - Continue development and distribution of school-related teaching aids

- Continue and expand school-wide recycling services. Work to reinstate cardboard recycling. Ensure regular and consistent school paper recycling.

f) Recommend that City provide staffing at its unstaffed recycling centers.

g) Encourage County and City purchasing departments to increase and expand "buy recycled" (recycled content products) purchasing ordinance. Work with purchasing agents to Increase recycled paper purchases, as well as the percentage of recycled content in paper. Also, expand purchasing ordinances to include more diversity of products.

h) Recommend that Solid Waste Board lobby City and County government to establish more incentives/ordinances for waste prevention, recycling and composting

- Staff to provide diversion program ideas.

I) Phase-in commercial and institutional composting of food wastes at new County mulching facility.

- Explore contractual arrangement with nonprofit or other hauler to collect compostable food waste from retail supermarkets and/or restaurants for purposes of composting.
- Long-term project for development after Knox County's mulching operation runs successfully for several years.

j) Continue with existing AmeriCorps program and potentially expand with additional AmeriCorps or Vista workers to enhance recycling programs.

k) Explore recycling container building space design requirements (for all new construction) and other recycling ordinances to provide incentives to business community.

l) Continue outreach and Green Sense program to businesses (offices, restaurants) in Knox County.

- Expand outreach to other business-types, such as auto repair shops, etc.

m) Develop interactive web site for Solid Waste Division to contain all Division publications, school programs, chat room for students to discuss recycling and composting, and more.

n) Work with Knoxville Recycling Coalition to expand Waste Xchange.

o) Work with the Knoxville Beautification Board to promote litter-free job sites, Build America Beautiful, waste reduction and recycling with construction firms.

- Work on construction and demolition diversion and recycling with area builders, perhaps promoting Build America Beautiful program.

p) Do cost benefit analysis and potential implementation of Knox County crew doing actual institutional and commercial recycling collection.

- Target small-to-medium-size businesses, as well as public institutions and schools

- Investigate legalities of charging fee for service to cover costs.

q) Do cost benefit analysis and potential implementation of glass beneficiation

- Specifically focus on green and brown cullet and contaminated loads for now, with potential expansion to other types of glass (auto pane, ceramics. etc.)

- Explore Department-wide use and contractor use of cullet as aggregate, back fill, road base and other construction-related uses.

r) Explore contractual arrangement with Knoxville Recycling Coalition or other nonprofit to collect glass from small restaurants and bars.

4. Recycling collection facilities

See Attachment \_\_\_\_\_

## **CHAPTER 6: DISPOSAL**

1. List landfills, transfer stations

See Attachment

2.

3. Disposal needs

4.

5.

<Clyde>

## **CHAPTER 7: Problem Wastes**

### **Household Hazardous Waste Information**

#### City and County Permanent Household Hazardous Waste Facility

- In April 1997, the City of Knoxville opened the first and only permanent site in Tennessee for collecting and disposing of HHW. Two staff are employed to operate the Center which is open Tuesday through Saturday. Residents can dispose of their HHW free of charge. The initial capital expenditures were provided by a \$500,000 grant from the State of Tennessee. The State is also paying half of the operational costs. In addition, an intermunicipal agreement was signed with Knox County that allows County residents to use the facility. The City then bills the County Solid

Waste Office based on the number of non-city customers. In 1998, a total of 3,411 cars, with 54% of them being from the City of Knoxville and 46% from Knox County, were serviced. A total of 29 tons of HHW was processed in 1998.

#### Additional Household Hazardous Waste Information

- Knox County continues to offer collection of used oil at all Convenience Centers. A brochure about used oil recycling and locations around the County which accept used oil has been designed. The County has given away funnels for oil changing and used oil storage containers, a plastic receptacle into which do-it-yourselfers drain oil directly from their engine and then conveniently pour the oil into any plastic container for transport to a used oil disposal site. A used oil recycling brochure was also developed and is being distributed. Knox County has contracted with Safety Kleen to collect, recycle and/or dispose of oil filters and antifreeze at the centers as well.
- Solid waste staff from both the County and the City have developed additional educational materials on proper disposal of HHW and non-toxic alternatives.
- City of Knoxville Transfer Station employees remove Freon from old appliances and then recycle the old appliance, as well as the Freon.
- In 1998, a total of 5,482 gallons of used oil and other hazardous materials was diverted.

### **CHAPTER 8: Solid Waste Education**

#### 1. Persons or organizations active in education

See Attachment \_\_\_\_\_

Description of activities:

#### **School Outreach**

- The Earth Flag Program is an environmental education initiative sponsored by Ijams Nature Center which allows students to reinforce educational concepts while actively putting into practice waste reduction methods. Along with staff from Ijams Nature Center, the Knox County Solid Waste Division, the Knoxville Office of Solid Waste

and the University of Tennessee Agricultural Extension Service have partnered to provide educational assistance to schools participating in the Earth Flag program. The five key components of the Earth Flag Program are as follows:

1) **Reduce and Reuse:** Each classroom and office in the Earth Flag school must establish a box for reuse of paper which has been used only on one side. The purpose is to promote the use of both sides of a sheet of paper before it is recycled.

2) **Recycle Four (4) Materials:** A program must be established in the school to recycling the school's waste paper, newspaper and aluminum cans. Additionally, one other material, such as telephone books must also be recycled.

3) **Compost:** The Earth Flag school must establish a compost program at their site which is actively used by a minimum of ten percent of the students.

4) **A More Sustainable School:** Each Earth Flag school must undertake a project that will help their students learn more about and care for the school's property. Some ideas include planting trees and doing clean-ups for school beautification and building a nature trail or center.

5) **Communication of Progress:** It is important that each school participating in the Earth Flag Program communicate their progress within the entire school via a newsletter, bulletin board, intercom announcements or other means of communication.

There are 20 schools in the Knox School District which have received the Earth Flag. Altogether there are at least 40 schools striving to reach the goals (about one-half of the schools in the Knox School District). Once a school has received its Earth Flag, in order to maintain it the school must continue on with its programs under the five goals described above. There are three additional levels of the Program which challenge schools to even greater levels of waste reduction.

- In conjunction with the Earth Flag program, Ijams staff arranges with schools to host teacher-in-services on the Earth Flag program. These two-to-three hour intensive training sessions involve the entire teaching staff at selected schools to learn about recycling, composting, sustainable school sites and more. Typically the Knox County Recycling Coordinator instructs the worm composting and composting sessions.
- Knox County Solid Waste funded an AmeriCorps Earth Flag Team Program in the 1996-1997 school year. Starting in the fall of 1996, eighteen AmeriCorps workers

began participating in solid waste and other environmental programs one day per week in twelve selected schools. The combined efforts of the partners involved in the Earth Flag program have worked well to bring waste reduction, recycling and composting to the twelve schools in which the AmeriCorps members participate.

This program, in its third year for the 1998-99 year, has been very successful. By the spring of 1998, schools with an AmeriCorps presence had reduced waste from 22 to 55 percent. In the 1998-99 school year, the Earth Flag team was modified to allow for a team of four AmeriCorps members to be in the schools five days per week. This has allowed for the team to bring waste reduction, recycling and composting to 16 schools, with each Corps members spending one full day each week at the schools.

- Schools continue to be able to recycle white and colored ledger paper, cardboard and newspaper, through a collection contract with two local haulers. Parents and neighborhoods can also help in a recycling/fund raising effort by bringing their newspapers to schools to be recycled.
- The Knoxville Recycling Coalition, Knox County Solid Waste Division, the Steel Recycling Institute, Knox County Schools and Browning Ferris Industries hosted the first annual "ExtravaCANza!" in Knox County in the fall of 1998. The "ExtravaCANza!" was the educational component of the Knoxville/Knox County America Recycles Day event. Knox County schools competed for prize money by collecting and making sculptures out of steel cans. The Knoxville area has a lower than average steel can recycling rate, so event organizers used the "ExtravaCANza!" as a vehicle to increase awareness about steel can recycling.
- The Knox County Solid Waste Division provides educational materials, including an Environmental Resource Guide for Teachers, a Guide to School Composting, a how to guide to conducting a waste audit. Additional materials are provided to schools through the Knoxville Office of Solid Waste and the UT Agricultural Extension Service. The Division's Recycling Coordinator, the Knoxville Office of Solid Waste Recycling Coordinator and the University of Tennessee, Agricultural Extension Service, Master Composter are available to make presentations to schools, as well as provide free consultations to schools in waste reduction, recycling and composting program set-up. The Division also offers a mobile composting display (the COW, see above) and worm compost bins which can be set-up at any school.

- The Knox County Solid Waste Division offers \$5,000 in "mini-grants" to educational programs each year to implement waste reduction, recycling and composting programs. This program, in its fourth year of funding in 1998, has awarded a total of \$20,000 to 35 schools and educational projects. Programs may apply for up to \$500 to set-up school environmental clubs, implement waste reduction, reuse and recycling programs, worm composting, cafeteria composting, litter pick-up and school beautification and more.

All projects must include an educational component. All schools in the Knox School District are invited to submit applications for the Solid Waste Division's Recycling Educational Grants Program. The goal of this annual educational grant is to foster solid waste reduction efforts at the schools that will not only assist them in reducing their waste, but will also present models for projects that can be implemented at other schools.

Several of the schools awarded grants have implemented on-site composting projects. Since as much as 40 percent of school garbage is food waste, composting can help reduce a school's waste while fostering a valuable learning experience in the biological processes of decomposition, soils formation, the food chain and more.

- The Keep Knoxville Beautiful (the local KAB affiliate) Education Committee continues to promote the TNSWEP education program. By cooperative planning with the Knox Schools administration staff and designated area supervisors, the Committee has scheduled presentations to teachers at in-service meetings and regularly scheduled monthly sessions at the Teachers' Center. Grade level meetings for teachers of grades K-3, 4-6, 7-8 and high school have been conducted by the Education Committee, TNSWEP presenters and the KKB Staff.

Keep Knoxville Beautiful continues to use its "talking tree" costume as an educational tool for litter awareness. A presentation is made at each student session and teacher in-service meeting (in the TNSWEP program) to illustrate how the "talking tree" is a learning experience for young children. The "talking tree" is also scheduled for community groups, trade shows, church gatherings and more.

Keep Knoxville Beautiful has also started a "Litter-Free School" program to involve students in keeping their schools clean. To participate, school children are provided an educational overview about litter, its dangers and impact on the community. Each school agrees to sponsor a litter clean-up several times a year around the school and

to hold litter-free events.

### **Additional Public Outreach**

- Solid waste staff for both Knox County and the City of Knoxville have developed and distributed a range of waste reduction and recycling information materials, including Trash & Trivia brochure, Convenience Center brochure, a handout regarding the preparation of recyclables for recycling at the Convenience Centers, a Guide to Recycling in Knoxville, 3R's for the Holidays flier and more. These brochures are being distributed at the County's Convenience Centers, City of Knoxville Recycling Centers, area libraries, schools, County and City information centers, civic associations, business associations and through other means.
- The City of Knoxville, Knox County, Keep Knoxville Beautiful, Knoxville Recycling Coalition, BFI and several other organizations participate in the annual America Recycles Day, a national education campaign aimed at increasing citizens' commitment to recycling and buying recycled goods. In the first year, more than 3,700 people in Knoxville/Knox County signed pledges as part of the campaign, promising to step up their current recycling efforts. "Buy Recycled" events have been held at Home Depot and Wal-Mart in Knoxville. Staff from the Solid Waste Division also participated on the statewide steering committee for America Recycles Day.

In the fall of 1999 a large ARD event was held at the Western Plaza shopping mall. Several retail businesses in the mall, including the Green Earth Emporium and Futopia, participated by offering discount coupons on environmentally-friendly products during the week prior to ARD. On Saturday, 13 November, several local environmental groups hosted tables, kids games and feature recycling and buy recycled information.

- The Recycling Coordinators from both the County and the City give presentations at numerous schools, environmental clubs, various garden clubs, civic groups and all educational programs receiving grant funding from the County Solid Waste Division. City of Knoxville staff have booths at the Dogwood Arts Festival, the Knoxville House and Garden Show, and other local events.
- County staff have put together a power point presentation to offer to civic and business groups regarding solid waste activities in the Region. A mailing promoting the presentation was sent to community and business groups.

**CHAPTER 9: Flow Control and Permit Review**

1. Does the Region attempt to control the flow of waste?

No

2. Does the Region foress any outstanding issues with regard to permit review or flow control?

No

**CHAPTER 10: Five-year Plan Update Review**

1. Public Hearing

2. Local Planning Commission review

3. Copy of resolution

To the best of my knowledge, the foregoing information is accurate as of the date of submission of this report:

**Region Name: Knox Solid Waste Planning Region**

**Tom Haskins  
Chairman of the Knox Region**

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**Signature of Chairman**

---

**Date**

**Thomas Schumpert  
County Executive**

---

**Signature of County Executive**

---

**Date**

Cc: Tom Schumpert, Knox County Executive  
Knox County Commission