

Gates County
And Town of Gatesville
Solid Waste Management Plan

July 1 2012 - June 30 2022

Submitted by the
Gates County Board of Commissioners
June 6, 2012

TABLE OF CONTENTS

Executive Summary	3
Planning Contacts	3
Vision Statement	4
Planning Goals	4
I. Geographic Information and Waste Stream Analysis.....	4
II. Waste Reduction Goals	6
III. Meeting the Waste Reduction Goals	7
IV. Planning Process and Public Participation.....	7
V. Solid Waste Programs.....	7
A. Source Reduction	7
B. Solid Waste Collection	8
C. Recycling and Reuse	9
D. Composting and Mulching.....	10
E. Incineration with Energy Recovery.....	10
F. Incineration without Energy Recovery.....	10
G. Solid Waste Sent out of Geographic Area	10
H. Solid Waste Disposal	11
I. Special Waste Management.....	11
J. Disaster Response.....	14
VI. Education	14
VII. Illegal Disposal and Litter Prevention.....	15
VIII. Purchase of Recycled Materials.....	16
IX. Solid Waste Costs and Financing Methods	16
X. Facilities and Resources Available	18
Contacts	19

APPENDICES

Appendix A Resolutions	20
Appendix B Copy of notices for public meeting.....	22
Appendix C Map of facilities	24
Appendix D Waste characterization charts or summaries.....	25
Appendix E Waste Reduction Goal Sheets	29
Appendix F Planning Element Sheets	31
Appendix G Disaster Response Plan	37
Appendix H Electronics Recycling Plan.....	41
Appendix I Abandoned Mobile Home Plan.....	52

Executive Summary

This Gates County Solid Waste Management Plan for July 1, 2012 – June 30, 2022 is being updated in 2012. The Gates County & Town of Gatesville plans were previously part of a joint three-county (PCG Landfill Commission) and four-town effort, and for the first time in 2012 will be written separately from that cooperative plan. Gates County is a member of Perquimans Chowan Gates Landfill Commission and Albemarle Regional Solid Waste Management Authority. The resulting document frequently mentions all three counties since they share a Landfill / Transfer Station, staff, common programs and equipment. This plan will include all of the updates necessary regarding the management of Electronics and Mobile Homes.

The counties made major changes in their solid waste and recycling programs in the past several years, and they are open to more changes to meet solid waste challenges. They plan to add new programs to meet new state landfill bans as they progress over the next few years.

The PCG Transfer Station that serves the area is situated about 60 miles from the private municipal solid waste landfill that accepts the area's waste. The counties face high transportation costs related to disposal and high tipping fees. Disposal is now secure with 23 more years left in a disposal contract with Republic Services, Incorporated, to use the East Carolina Environmental Landfill in Bertie County. To ease the transportation costs, some of the residential waste from the convenience sites (abt. 38% in 10/11) is now sent directly to the ECE Landfill which saves the county about \$20 per ton in reduced tip fees.

It is evident that waste going through the PCG Transfer Station has been reduced. Also, the total tons of waste disposed were down 15% including the waste that was hauled directly to ECE Landfill.

The tons of waste being disposed through the PCG Transfer Station in recent years are lower because:

1. The town and local school system offer 65/95 gallon cart-style recycling collection respectively.
2. A loss of industries and smaller businesses.
3. New construction activity is lower.
4. The area has not had any major storm damage since 2003.
5. More commercial waste is being taken directly to the ECE Landfill.

Contact Persons

Gates County

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Town of Gatesville

Mr. Elton Winslow, Mayor

Gates County Planning

Ms. Morgan Jethro, Director of Planning

Other Contacts:

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Ms. Anne Blindt, Recycling Coordinator

PCG Landfill Commission

Mr. Brad Gardner, PCG Landfill Manager

Gates County Vision Statement

Gates County and the Town of Gatesville make this vision statement. Our governments try to provide safe and efficient waste removal for everyone who lives in and visits the county. The county and town encourage reusing and recycling materials to reduce pollution, use fewer raw materials, create jobs, save money, and to reduce the dependency on landfill disposal. They encourage waste and toxicity reduction practices in the government agencies and in households and businesses. The elected officials understand the importance of properly managing hazardous wastes and special materials, and seek to develop programs to safely manage them and to discourage their improper disposal. These local governments practice proper waste management to protect the beauty, health, and safety of the environment and to follow local, state, and federal laws.

Planning Goals for Gates County and the Town of Gatesville

- To provide everyone in the community with waste disposal capacity, waste collection services, and waste reduction opportunities.
- To increase the efficiency and cost-effectiveness of the solid waste program.
- To meet the established local waste reduction goals.
- To decrease improper waste disposal.
- To protect the public health and the environment.

I. Geographic Information and Solid Waste Stream Analysis

- Gates County is rural with one municipality, the Town of Gatesville. Please refer to Table 1, Population Projections for the town and county population projections through the year 2022. This plan compiles information about the area's workforce and population and growth using local planning department estimates and that of the NC Department of Commerce¹ and the NC Office of Budget and Management² as well as local government staff estimates and the studies that they have available to them.
- Gates County, consisting of approximately 346 square miles bordered by Virginia to the north and the Chowan River to the west, has a slowly growing population. Many residents commute to jobs in Virginia. Gatesville is the county's only incorporated municipality, with a population of about 321. The largest employer in the county is the government, as very few industries are located in the county. A large portion of the land is used for agriculture and timber production.

Table 1 Population Projections

Town / County	2010	2019	2022	% growth from 2010 to 2020	% growth from 2012 to 2022
Gates County	12,214	14,368	15,000	14.6%	
Town of Gatesville	321	313	313		-2%

Waste Stream Analysis

- Since increasing amounts of commercial and industrial solid waste are being hauled directly to the privately owned ECE Landfill in Bertie County, the county and town have little knowledge of the makeup of the commercial and industrial wastes. No waste audits have been completed by or on behalf of the local governments in many years.

¹ <http://www.nccommerce.com/en/WorkforceServices/> NC Department of Commerce

² http://www.osbm.state.nc.us/ncosbm/facts_and_figures/socioeconomic_data/population_estimates/municipal_estimates.shtm Office of State Budget and Management

- The county gives an estimate of the types of waste that are included in the commercial waste stream in **Appendix D, Part I, Waste Stream Characterization. Descriptions of Non-Residential Waste Generated in Gates County.**
- **Appendix D, Part II, Gates County Workforce in Depth Report, 2011** from the NC Employment Security Commission shows the twenty-five largest employers in the county.
- **Appendix D, Part III, EPA Waste Stream Characterization** shows the U. S Waste Composition and Material Recovery from Residential, Commercial, and Institutional Sources.
- **Appendix D, Part IV, United States Total MSW Generation, 2010** shows the percentages of materials that contribute to the municipal waste stream.

Table 2: Estimates of the Gates County waste stream generation by sector:

Residential/ municipal	68%
Commercial	18%
C & D	14%
Industrial	industrial waste is included in Commercial

The town of Gatesville **Municipal Waste Stream Fiscal Year 2011**

- The **Town of Gatesville** provides collection of solid waste and recyclables from small businesses and the residential sector through a contracted hauler.
- The total amount of waste from the town is not entirely reflected in these tonnages, since residents take some yard waste, white goods, and bulky items directly to county convenience sites. Some commercial waste is taken directly to the ECE Landfill and is then attributed to the county of origin.
- Table 3: Estimates of the Town of Gatesville waste stream generation by sector shows the county estimates of the sectors that contribute to the waste stream.

Table 3: Estimates of the Town of Gatesville's waste stream generation by sector:

Residential/municipal	80%
Commercial	15%
C & D	5% reported as Gates County tons
Industrial	No industrial waste is included

I. Local Waste Reduction Goals

- Gates County provides four convenience (drop-off) sites for collecting recyclables and special wastes. Residents of both the county and town use these sites. Small businesses may use the sites for unlimited recycling, but they may deposit only very small amounts of wastes per trip i.e. trunk full of waste or 5 or fewer bags.
- The county also provides several special recycling programs operated from the Perquimans, Chowan, and Gates (PCG) Landfill / Transfer Station Facility in Belvidere.
- Gates County is experiencing a moderate but steady population growth. The county is pursuing commercial and industrial investment in the area.
- The county plans to reach waste reduction a rate of 35% by 2021/2022. If waste production is to be reduced to 0.41 tons per capita in 2022, then 3,300 tons need to be prevented or recycled rather than landfilled in that year.

Table 4: Gates County Goals

<i>Year</i>	<i>Population</i>	<i>Tons of waste disposed / projection</i>	<i>Tons per capita disposal rate</i>	<i>% Reduction achieved/ predicted</i>	<i>Tons targeted for reduction</i>
Baseline year 1991/1992	9,395	5,896	0.63		
2010/2011	12,197	5,154	0.42	33%	
2018/2019	14,368	5,890	0.41	35%	
2021/2022	15,000	6,150	0.41	35%	3,300

Town of Gatesville Goals

The Town of Gatesville, whose waste was not measured separately from the county waste until FY 2001/2002, produced 171 tons of residential waste in that year. This should be considered the baseline year. In 2010/2011 the town disposed of 167 tons of waste, at the rate of 0.52 tons per capita. The town should meet its goal of 33% reduction in 2021/2022 which will be 0.44 tons per capita. To do this it must prevent or recycle 63 tons rather than landfill them that year.

Table 5: Town of Gatesville Goals

<i>Year</i>	<i>Population</i>	<i>Tons of waste disposed / projection</i>	<i>Tons per capita disposal rate</i>	<i>% Reduction achieved/ predicted</i>	<i>Tons targeted for reduction</i>
Baseline year 2001/2002	282	171	0.61		
20010/2011	321	167	0.52	5%	
2018/2019	318	140	0.44	30%	
2021/2022	313	128	0.41	33%	63

III. Meeting the Waste Reduction Goals

The counties and towns plan to reach these goals as outlined in Section II, above, by targeting certain wastes, as listed in **Table 6: Targeted Wastes.**

Table 6: Targeted Wastes

Reduction Method	PCG Targeted Materials
Source Reduction	Office paper, junk mail, cardboard, packaging
Reuse	Household goods, pallets, paint
Recycling	Office paper, mixed paper, newspaper, magazines, cardboard, plastics, glass, steel cans, aluminum cans, pesticide containers, scrap metals
Composting and Mulching	Residential and commercial yard waste and food waste
Special Wastes	Antifreeze, waste oil, oil filters, pesticides, tires, white goods, hazardous wastes, electronics, gasoline, junk motor vehicles, junk mobile homes, small propane tanks, vegetable grease.

IV. Planning Process and Public Participation

- Gates County and the Town of Gatesville are updating its plan with information gathered from the PCG Solid Waste Management Director and employees, county and town managers and employees, Albemarle Regional Solid Waste Management Authority, NC Department of Commerce, scale data, and the major private haulers in the region.
- The county and town held planning meetings in June 2012. Before that a first draft of the plan was available in county clerk's offices and was given to the County Commissioners. In these meetings, each solid waste program was reviewed for effectiveness, and verbal comments were solicited for each of the solid waste planning elements. The progress towards waste reduction goals was discussed, and new goals were set. Residents, including county and town officials, openly discussed their visions for future solid waste management programs. Comments were solicited from residents through June.
- After the planning process was completed copies of the plan were available for review at the county clerk's offices, plus at the PCG Solid Waste Facility in Belvidere and the Albemarle Regional Solid Waste Management Authority office in Elizabeth City.
- The county held a public meeting at the Board of Commissioners Meeting on June 6, 2012 and passed the plan by resolution of the Board on the same date.
- Town of Gatesville held a public meeting at the Town Council Meeting on June 6, 2012 and passed the plan by resolution of the Council on the same date.

V. Solid Waste Programs

A. Source Reduction

- Source reduction educational programs are conducted through PCG Landfill Commission, Albemarle Regional Solid Waste Management Authority (ARSWMA), and NC Cooperative Extension Service.
- Much of the source reduction education in this area now consists of providing residents with websites such as that of the Division of Pollution Prevention and Environmental Assistance and others. Links to useful sites are printed in county solid waste and recycling brochures. The local governments will work to link their web sites with resources so residents and businesses can research waste reduction on their own.
- The regional recycling coordinator teaches residents and students to reduce the toxicity of solid waste and to prevent illegal disposal of chemicals.

- Backyard composting demonstrations are given to civic and student groups occasionally and instructions are printed in some newsletters and distributed at public venues.
- NC Cooperative Extension Service Agents promote pesticide container rinsing and recycling to reduce the toxicity of waste. This program prevents several tons of chemically contaminated pesticide containers from being disposed each year.
- PCG Landfill Commission and the town and county government offices practice numerous source reduction measures including using office equipment and furniture discarded by other government agencies. Paper that is printed on one side is reused in the printers or as scratch pads and two-sided copying is standard for reports.

Intended Actions

- All of the educational efforts and practices target the towns as well as the counties and will be continued through 2022.
- Office and home source reduction education ideas will be updated in 2012 on the Solid Waste Management Authority web site. This will be linked to the Gates County website.
- The local government offices and facilities will continue to practice source reduction measures through 2022.
- PCG will continue with pesticide container recycling through 2022.

B. Solid Waste Collection

- Perquimans Chowan Gates Landfill Commission (PCG) is a department of the regional health department, so the employees, are all health department employees.
- PCG contracts with GDS, a Republic Services subsidiary, to haul the trash and recyclables. The five-year contract with GDS for hauling all materials from the convenience sites runs until the end of June of 2015.
- Small businesses can recycle at the sites and bring very limited amounts of bagged solid waste to Gates County's sites.
- Gates County operates four drop-off sites that serve the area.
- Each property is owned or leased by the county. The sites are conveniently located throughout each county.
- The town residents may use the county convenience sites for solid waste disposal and recycling.
- For economic reasons, the county has closed the sites one day per week and have considered closing early during the shorter days of the winter but not done so at this point.
- The sites work fairly well for accepting residential trash and recyclables, although they can get overloaded with waste on many weekends.
- Gates County collected 4582 tons of MSW at the four sites in 10/11. It also collected 324 tons of yard waste and 416 tons of recyclable materials.
- Since PCG Landfill Commission took over operating the sites in 2005 the counties have reached the goals of reducing costs, diverting additional materials from the waste stream, and restricting commercial use of the sites. Operating the sites has the added benefit of allowing the counties to decide which recyclable materials are collected and how they are collected.
- The special wastes accepted at most of the sites include small amounts of C & D, bulky items, appliances (white goods), yard waste, propane tanks, waste motor oil, oil filters, TV's and electronics, and antifreeze and cooking oil. Fluorescent bulbs are taken along with the electronics at the sites.
- The counties operate the PCG Landfill (Solid Waste Management Facility) in Belvidere with a staff of four. This is the site of the PCG transfer station, a land clearing and inert debris (LCID) landfill, a yard waste grinding site, and the closed PCG Landfill. Also on the grounds are the storage sites or buildings for white goods, tires, pesticide containers, latex paint, and commingled recyclables.
- Some individual residents contract for curbside trash collection. With the exception of one small company that offers \$40/month curbside recycling and waste pickup, curbside service is not usually offered to these households, so the residents must use the county sites for special wastes and recycling.

- The Town of Gatesville contracts with Waste Industries for weekly solid waste service and every other week recycling pickup. Each residence receives one 96-gallon cart for waste and small businesses receive two. Each resident has a 65-gallon cart for commingled recycling. Larger businesses must contract with a private hauler. No curbside service is provided for yard waste, tires, white goods, bulky items, or C & D.

Intended Actions

- The county, through the PCG Landfill Commission, plans to continue to operate their convenience sites for solid waste and recycling collections through the year 2022.
- The county, through the PCG, intends to continue to contract with a hauling company to remove all materials from the convenience sites. This contract is currently with GDS, a subsidiary of Republic Services for the next 5 years.
- The PCG transfer station will continue to accept municipal, commercial, and industrial solid wastes through 2022.
- The PCG Facility will continue to operate the LCID/yard waste collection site, white goods collection site plus collect and process special wastes through 2022.
- The Town of Gatesville plans to maintain service at the level it currently provides through 2022.

C. Recycling and Reuse

Recycling

- The PCG Landfill Commission operates the thirteen staffed convenience sites at which businesses and residents of the towns and counties may deposit recyclables. Gates County has four sites.
- PCG sells all materials to Tidewater Fibre Corporation (TFC) through a contract that runs through June of 2013. TFC pays PCG for the recyclables it processes based on a rate of \$20/ton.
- PCG Landfill Commission can decide which recyclable materials are collected based on market availability.
- PCG collects mixed paper, aluminum and steel cans, all plastic bottles and jugs in a commingled 40-yd. compactor.
- All glass, ceramics and mirrors are collected in a separate recycling container at each site. The glass was intended to be marketed to Elizabeth City Glass (ECG) for processing into cement products. However, most often these are now also sent to TFC due to market difficulties.
- Using commingled recycling compactors helps the hauling efficiency. Fewer containers are used at the sites and the county uses interchangeable equipment. Participation is strong and the residents continue to give the program many compliments. The hauling contractor saves fuel and time by consolidating the recyclables collected in recycling compactors from two or three sites into one walking floor transfer trailer using the PCG Transfer Station.
- The county began collecting used electronic waste at all of their sites in 2011. They utilize a 16-ft. trailer to collect any e-waste that connects to a television or computer. The trailer rotates among each site in 3-month increments. The material is then sent to a state approved e-waste recycling vendor for proper dismantling and recycling.
- The Town of Gatesville used DENR grant funds to initiate a curbside recycling program using 65 gallon carts in FY 09/10.

Reuse Program

- The county operates a swap shop at its busiest convenience site. Several tons of household goods are exchanged through the site each year. This is a highly successful, low-cost program. The residents that frequent the swap shop are generally satisfied with their operation however the frequent traffic is interfering with the regular operations of the rest of the site.
- Many drop-off bins for used clothing have been set out in parking lots throughout the county and a non-profit from Zebulon, NC does periodic pickups.

- A few charity and private thrift shops and permanent flea markets operate in the region, providing an outlet for reusing household goods and clothes.
- PCG Landfill accepts unwanted oil and latex paint and stain from residents, but demand is great for more accessible paint drop-off facilities
- The Town of Gatesville encourages residents to use the county swap shop, and to practice the source reduction measures that are taught by county and regional staff.

Intended Actions Reuse and Recycling

- Gates County will continue to operate its swap shop through the year 2022.
- The county plans to continue to modify and improve its recycling services as grant funding becomes available from DENR, through the year 2022. It will comply with other state landfill bans as they become laws.
- The counties would like to begin a program to accept latex paint from residents but have not set a goal date yet.
- The Town Gatesville will make every effort to get all small businesses and residents to recycle, and it plans to continue this program through 2022.

D. Composting and Mulching

- The yard debris collected at the sites and that which is taken to PCG by haulers is ground at PCG by a hired contractor. PCG requires that the grinding company markets all usable wood. The companies are having increased difficulties finding markets that want to use it as boiler fuel. PCG plans to continue to have a company grind the wood through the year 2022.
- If composting markets open up nearby, the companies could divert wood there.

Intended Actions

- PCG Landfill Commission intends to have to yard waste, untreated lumber, and pallets ground at the solid waste facility in Belvidere through 2022.
- PCG will put out a request for proposals as needed through 2022 to hire grinding services.
- The Town of Gatesville has no program for yard waste and will continue to encourage residents to use the county convenience centers through 2022.

E. Incineration with Energy Recovery

- This option is not available because no companies operate waste incinerators within this region and the counties have a long-term landfill disposal contract.

F. Incineration without Energy Recovery

- This option is not available because no companies operate waste incinerators within this region and the counties have a long-term landfill disposal contract.

G. Solid Waste Sent out of Geographic Area

- The PCG Transfer Station in Perquimans County accepts residential, commercial, and industrial solid waste from the three counties and four municipalities in the PCG region.
- The PCG Transfer Station in Belvidere is situated about 60 miles from the private municipal solid waste landfill that accepts the waste, the East Carolina Environmental (ECE) Landfill near Republican, in Bertie County.
- The counties face high transportation costs related to disposal and high tipping fees.

- Disposal is now secure with 23 more years on the disposal contract with Republic Services of North Carolina, LLC, to use the ECE Landfill. ECE has a contract with a trucking firm Bowen to manage the transfer station and do the hauling.
- To reduce hauling costs, some waste from the convenience sites is being directly hauled to the ECE Landfill.
- Much of the commercial and industrial waste being generated in the counties is being trucked directly to ECE Landfill and is not going through the transfer station.
- The total waste going through the transfer station from all three counties was only 14,517 tons in FY 11, which is down by 38% from the tons in 07/08.
- PCG made repairs to the transfer station tipping floor in 2010 and that should be good through 2022.
- The transfer station building does double duty now with the consolidation of loads of commingled recyclables into Tidewater Fibre's transfer trailers. This use of the transfer station may continue until a closer commingled market is available.

Intended Actions

- The county plans to continue to transfer waste to the ECE Landfill under these arrangements for the duration of the contract, through 2035.
- Both the PCG and Edenton transfer stations will continue to load recyclables for as long as it is feasible. If markets open nearer, they may haul to those directly.

H. Solid Waste Disposal

- Gates County is a member of Albemarle Regional Solid Waste Management Authority (ARSWMA), which has a contract to dispose of waste in the East Carolina Environmental (ECE) Landfill near Republican, in Bertie County. Disposal is now secure with a 26-year disposal contract that began May 1, 2009 and will continue through the year 2035. Any resident or business within the counties can haul their waste directly to the ECE Landfill or use the transfer station.
- With this contract the counties face annual tip fee adjustments based on the consumer price index. The next increase of 2.9% will be on July 1, 2012.
- The FY 2013 fee to the counties for waste going to the landfill through the PCG Transfer station will be \$41.31/ ton plus landfill taxes, transportation charges and fuel surcharges. Fuel surcharges can change the rate monthly. In June 2012 the total rate is \$61.62/ ton.
- PCG operates a land clearing and inert debris (LCID) notification site at the PCG Landfill (Solid Waste Facility). The materials accepted include logs and stumps, untreated lumber, bricks, concrete, asphalt, clean dirt, gravel, etc. A contractor is hired to grind yard waste, clean lumber, pallets, stumps and logs.
- To stay in compliance with state solid waste management rules the ground water around the old MSW landfill at PCG is closely monitored on a regular basis. PCG Landfill Commission plans on maintaining this landfill cap indefinitely.

Intended Actions

- The county and the town will continue to use the ECE Landfill for waste disposal through 2035.
- PCG Landfill Commission intends to maintain its LCID site through the year 2022.
- The PCG landfill cap will be maintained to prevent erosion and water intrusion through 2022.
- The county and the town will evaluate their disposal services, costs, and options each year through 2022.

I. Special Waste Management

- PCG Landfill Commission's personnel operate the PCG Landfill /Transfer Station Facility and its special waste management programs. The Regional Authority assists with these special programs where needed, particularly with finding markets and developing new programs. By maintaining control of some of these materials, PCG tries to keep costs down while providing a good level of service to the community.

- The county and town encourage the proper recycling and disposal of special materials. PCG Landfill Commission collects yard waste, commingled recyclables, recyclable pesticide jugs, and materials for beneficial use and more at its PCG Facility
- Residentially generated construction and demolition debris, yard waste, bulky items, and an assortment of other materials are collected at the convenience sites and PCG Landfill. The county tries to keep businesses from using the sites for disposing of C & D and large amounts of yard wastes.
- Certain special wastes including asbestos insulation, large amounts of C & D, fiberglass boat molds, agricultural wastes, and others that require special handling will be sent directly to the ECE Landfill.

White Goods

- PCG Landfill Commission collects white goods (appliances) and scrap metals at the thirteen convenience sites situated throughout the counties. These materials are taken to the PCG Landfill / solid waste facility by the contracted hauler. Other materials arrive at the PCG facility from the towns or from residential or commercial customers. These materials are put on a cement slab at the white goods area beside the closed landfill.
- Items with refrigerants are carefully separated out and sent to market for Freon extraction.
- PCG purchased five used 30-yard containers in FY 2012 to haul white goods to market.
- The PCG Solid Waste Facility has been making money by selling scrap metals past several years but had to change markets due to problems collecting payments.
- In 2012 PCG changed from hauling to USA Recycling to Liverman's Recycling in Bertie County.
- PCG is testing using a local market for scrap metals called Chowan Metal Recycling that is located in Chowan County.
- PCG Landfill has employees that are certified to remove Freon but it does not have the funding to purchase the equipment and tools and a shed to store them in at this time. PCG may try to obtain these funds through a White Goods Fund grant by 2022 if it is necessary to manage the Freon in-house. Sales of Freon would generate funds for the operation of PCG Landfill.
- The amounts of scrap metals recycled are decreasing in the past two years due to the interest in many people of selling their scrap metals directly to market rather than giving it to the county.
- Residents and businesses with special waste and hazardous waste inquiries are referred to companies that specialize in these wastes or to the Regional Authority Recycling Coordinator to answer questions.
- Latex paint is accepted year-round at the PCG solid waste facility, but the counties are not meeting the demand for more accessible paint drop-off facilities. Ideally, a staffed household hazardous waste drop-off facility in each county would greatly assist in reducing the toxicity of the waste being disposed in the landfill.
- PCG works with NC Cooperative Extension Service to collect and store rinsed pesticide containers for grinding and recycling with US Ag Recycling. This is a highly successful program for which PCG gets assistance from PETF grants.
- The local offices of NC Cooperative Extension Service work with the North Carolina Department of Agriculture (NCDCA) to properly dispose of unwanted pesticides. Usually one pesticide collection is held in the area each year, with each county having a collection every two or three years. This NCDCA program fills a need for safe and legal chemical disposal, especially since the counties have no household hazardous waste HHW programs. Producers and homeowners alike participate in this free-to-use program.
- Tires from the three counties are accepted at the PCG facility only at this time. Occasionally the counties do place roll-off containers at the sites to collect residential tires. These are placed in trailers and sent to Central Carolina Tire as soon as they fill up. One large tire dealer and re-treader operating in Edenton, Colony Tire, loads tire trailers at its business sites, and these full trailers are shipped directly to Central Carolina Tire at county expense.
- The PCG Landfill Commission is considering diverting shingles to one or more local paving companies. It is currently considering whether it is feasible to collect them at the PCG Landfill or to try to get the roofing contractors to haul the shingles directly to the paving company.
- The county collects antifreeze, oil filters, and used motor oil at the convenience sites and at the PCG Landfill Facility.
- PCG Landfill accepts old gasoline from residents.
- Beginning in 2011 cooking Oil is accepted at all of the sites.

Electronics and TV's

- Gates County began recycling electronics and TVs in 2010. The joint County / Town Electronics Plan is in **Appendix H**. The Plan was approved by resolution of the two governing boards in 2010. The current electronics management program information follows the Plan in Appendix H. Supporting documents are included.
- The county would like to purchase another e-waste trailer to provide more capacity in collecting e-waste in FY 2013 if feasible.

Abandoned Mobile Homes:

- The General Assembly recently passed HB 1134 : AN ACT TO PROTECT PUBLIC HEALTH AND THE ENVIRONMENT BY ENCOURAGING COUNTIES TO DEVELOP PLANS THAT PROVIDE FOR THE DECONSTRUCTION OF ABANDONED MANUFACTURED HOMES AND THE REMOVAL OF REUSABLE OR RECYCLABLE COMPONENTS, BY PROVIDING FOR THE ABATEMENT OF ABANDONED ANUFACTURED HOMES THAT ARE DETERMINED TO BE A NUISANCE, AND TO DESIGNATE THAT A PORTION OF THE SOLID WASTE MANAGEMENT TRUST FUND BE USED TO FUND THE DECONSTRUCTION AND REMOVAL OF ABANDONED MANUFACTURED HOMES. **SECTION 1. Article 9 of Chapter 130A of the General Statutes is amended by adding a new Part to read: "Part 2F. Management of Abandoned Manufactured Homes. Reads: "§ 130A-309.99A. Purpose. The purpose of this Part is to provide units of local government with the authority, funding, and guidance needed to provide for the efficient and proper identification, deconstruction, recycling, and disposal of abandoned manufactured homes in this State.**
- Gates County manages **abandoned mobile homes** through its ordinances and code enforcement. The counties have a well-designed program that could be enacted again when funds and staff time are again available. The policies and procedures are in **Appendix I**. However at this moment they are not actively seeking state funds to revive the abandoned mobile home removal program. Between now and 2022 they will look into the program created by enacting HB 1134 and see how they can use the state' financial and technical assistance.
- Junk vehicles are managed through local government ordinances and code enforcement. They conducted a successful program in the early 2000's, and some of the program's features are still used. The junk vehicles are sometimes taken to local impoundment areas or PCG Landfill for holding and then recycling.

Intended Actions

- These programs are frequently reevaluated, and changed if money and/or labor can be saved. Many of the markets and processors currently used will remain as is until individual contracts need to be renegotiated. This practice will continue through 2022.
- PCG plans to implement new special waste programs if and when they are needed through 2022.
- PCG Landfill may try to obtain a White Goods Fund grant by 2022 if it is necessary to manage the Freon in-house.
- The county intends to reinstate collecting scrap tires at convenience centers when it is feasible by 2022.
- The PCG Landfill Commission is considering diverting shingles to a local paving company if feasible by 2013.
- The county will continue to manage junk vehicles using code enforcement procedures through 2022.
- At some time between now and 2022 the counties will look into the abandoned mobile homes program created by enacting HB 1134 and see how they can use the state financial and technical assistance.
- If they can acquire grant funding, the counties would consider developing a program to collect and temporarily store unwanted pesticides in cooperation with NCDA & CS, possibly by 2015.
- **The Town of Gatesville** provides no service for special wastes, so residents use the convenience sites.
- The county will continue to use funds from the state to finance the electronics and TV recycling program through 2022.

J. Disaster Response

- For a complete disaster response plan, please refer to Appendix G, Disaster Response Plan. Gates County has a lease agreement with a local farmer for some acreage on Sarem Rd. in the Gates/ Roduco portion of county for a temporary site for green waste storage and possible burning following natural disasters. The individual convenience sites are used as temporary holding sites for limited amounts of green waste. Debris is piled on the ground and moved as soon as trucks become available.
- Gates County primarily relies on NC DOT to remove debris from roadsides after declared storms.
- Bulky waste containers at convenience sites are used to handle extra demolition debris following a storm. When these are filled, the materials are placed on the ground temporarily. To be prepared for a major storm, the counties will need more containers or have additional haulers on contract.
- PCG Landfill Commission has an agreement with a company to grind yard waste. When a formal contract is in place, they are usually for one-year periods.

Intended Actions

- PCG Landfill and the county plan to work with NCDA, FEMA, and DENR to be ready to segregate, store, and transport, green waste, demolition debris, hazardous waste, and MSW in the event of major storm damage within the region. The NCDA & CS services would be used to dispose of hazardous pesticides.
- Through 2022, PCG and the county plan to receive compensation from the state and FEMA for added expenses for management of storm debris.

VI. Education

- The PCG Landfill Supervisor and the Albemarle Regional Solid Waste Management Authority Recycling Coordinator provide student, civic group, and public event education on topics including recycling, household hazardous waste (HHW), source reduction, composting, and litter prevention. They promote participation in the town curbside recycling programs and the county convenience site recycling programs.
- Educational materials are designed and distributed for the local programs and for special collection events.
- The “Recycle Guys” characters are used in printed materials. State web sites are printed on materials and links are provided from web pages.
- Local newspapers and newsletters print articles on waste-related topics.
- The PCG Landfill Supervisor has taken most site attendants, staff members, interested citizens, town and county officials, and teachers and students on tours of the commingled recyclables sorting facility, the glass recycler, the regional landfill, and the PCG Transfer Station. This helps the officials and site and office workers to authenticate how waste materials and recyclables are managed. Training the site attendants this way encourages them to promote recycling to the site users, to prevent contamination of the recyclables, and to manage the special wastes properly. This will continue to be an important part of training and outreach through 2022.
- Residents, students, and teachers ask for assistance with researching solid waste and recycling topics, and information is distributed directly to these persons. A list of Internet sites on waste and reduction topics is given to any of those who can use the Internet for research.
- The counties plan to use cable access channels to distribute information including upcoming special waste events through 2022.
- The county publishes the county and town solid waste and recycling information on its web site. To assist with education, the Regional Authority has this information on its web site plus links to several state and national educational web sites. This was completed by 2010 and improvements are being made in 2012.
- A combined town and county brochure is frequently updated and printed and is widely distributed.
- PCG Landfill holds site attendants educational meetings once a year.

- Local staff assists the agriculture agents with teaching pesticide applicators how to rinse and recycle pesticide containers and how to participate in the local programs.

Intended Actions

- The Regional Authority, PCG Landfill Commission, and other agencies intend to continue to provide each of these educational services for the towns and counties through 2022.
- The counties intend to ask for assistance from NC DENR in the form of solid waste assistance grants for educational efforts through the year 2022.
- The counties plan to use cable access channels to distribute information including upcoming special waste events, beginning in 2013.
- The counties will continue to train the convenience site attendants annually and bring them and others to the MRF through 2022, including tours of the MRF.

VII. Illegal Disposal and Litter Prevention

- The county has updated “solid waste”, “junk and abandoned vehicle” and “junk yard” ordinances. The ordinances provide guidance for proper disposal and enforcement actions for illegal disposal offenses. The counties now have stronger planning and enforcement staffs than a few years ago.
- Gates County Planning and Inspections Department has a planner and an enforcement officer that enforce all of the codes. They are working steadily on ridding the county of accumulations of scrap tires, junk cars and other nuisances.
- Residential tire cleanups are conducted when feasible by placing roll-off containers at the convenience sites that are quite distant from the PCG Facility. Public educational efforts aim to prevent these tire buildups in yards, citing mosquito habitat reduction as a major goal. To prevent tire accumulations, residents are asked to leave the tires with the company that changes the tire rather than bring them home. As a result of these efforts tire accumulations seem to be dwindling. If small amounts of tires are located by the roadside, PCG staff sometimes cleans them up.
- Some neighborhood groups collect tires from their area and bring them to PCG Landfill.
- PCG charges for disposal of very old tires from those identified nuisance sites.
- The PCG Landfill Manager sends letters to residents that dump bags of trash outside the gates of any of the convenience sites, and this usually stops those individuals from dumping again.
- The Regional Authority Coordinator and the PCG Supervisor conduct litter prevention education programs for students and civic groups. They also promote involvement in statewide and national litter cleanups with public service announcements and newsletter articles. In spite of these efforts, volunteer participation in NC Big Sweep has been reduced in this area in recent years.
- The region has many Adopt-A-Highway and Adopt-A-Street programs, and the counties allow free disposal for the wastes that those groups collect.
- DOT frequently uses prison labor to clean up roadsides. Much litter is still coming from commercial and privately owned trucks that are not properly covered. Residents hauling trash to convenience sites in uncovered trucks add to the litter problem. It would be helpful if the PCG Landfill / transfer station required that all trucks be covered when entering the facility.
- With the increase in scrap metal prices many individuals have been removing vehicles and other junk on their own initiative.

Intended actions

- PCG Landfill will coordinate illegal tire dumpsite cleanups with the DENR Division of Waste Management through 2022.
- The county and town plan to continue working with NC Big Sweep, Adopt-A-Highway, and other volunteer programs through 2022.
- The County Planning and Inspections Department will enforce county codes through the year 2022.

II. Purchase of Recycled Materials

- Gates County and the Town of Gatesville purchase recycled paper products. They purchase recycled content recycling and trash containers.
- Gates County will consider passing a "Buy Recycled" policy resolution by 2022.
- PCG Landfill Commission purchases recycled content recycling and trash containers, letterhead, file folders, copy paper, legal pads, educational brochures and flyers, and promotional items, and scale ticket paper. It purchases refilled ink and toner cartridges when they are available.

Intended Actions

- Both local governments intend to purchase more recycled products through 2022.
- Gates County will consider passing a "Buy Recycled" policy resolution by 2022.

IX. Solid Waste Costs and Financing Methods

- Household user fees and property taxes support most of the solid waste collection and disposal costs in this region. Tipping fees, grants, and electronics, tire and white goods funds provide the balance.
- **See Table 8: The Town of Gatesville Program Costs FY 2010/2011** as Reported to NC DENR. No tipping fees are paid by the town.
- The Gatesville program served 200 households and several small businesses and government offices.
- The households did not pay a solid waste fee but was paid for by property taxes.
- The following describes the arrangement that the counties and towns have with the Albemarle Regional Solid Waste management Authority (ARSWMA). ARSWMA has a contract with East Carolina Environmental, Inc. that requires all Authority members to deliver all waste collected by the members, except recyclable materials, to East Carolina Landfill (ECE).
- ECE Landfill bills the tipping fees to the Authority, and ARSWMA bills the county for the county's and town's disposal bills.
- As of May 1 2009, ARSWMA signed a new contract with Republic Services of North Carolina, LLC, owner of East Carolina Environmental, Inc. Landfill. This contract is a service agreement for twenty six (26) years. The counties in the area served by the PCG Transfer Station will pay a basic tip fee (\$41.31/ton for 2013) plus an additional \$16.16 per ton for managing the transfer station and transporting the waste to ECE Landfill. On top of that those counties pay a fuel surcharge for diesel fuel that costs greater than \$1.26 per gallon.
- The county is trying to send more waste directly to ECE Landfill at the less expensive tip fees to avoid the transportation charges.
- The tipping fee that PCG Landfill charges for residential, commercial, C & D, and industrial waste accepted at its transfer station is currently \$66.00 per ton. The PCG Landfill Commission Board reviews these rates and sets them at appropriate levels. The Board will review these charges again throughout the length of the contract, since they need to respond to rising or dropping fuel prices.
- PCG Landfill currently charges \$51 per ton for LCID and yard waste. These for materials are kept on site at the PCG facility until processing.
- PCG Landfill is the site of an old capped MSW landfill, and PCG had the cap repaired in FY 07/08. Periodically the counties need to budget for major repairs to the transfer station, equipment, building, and landfill.
- In FY 2010/2011 5154 tons of Gates County's wastes were disposed of in the ECE Landfill. The county pays for collecting and disposing of the 4592 tons of MSW it took in from public at the convenience sites. The county also paid for disposal of 167 tons from the Town of Gatesville. Another 395 tons were residential, C & D, commercial, and industrial waste that came from the county and town through the transfer station.
- The county reports its solid waste expenditures in **Table 7: Gates County Solid Waste Management Costs for Fiscal Year 2010/2011**.

- The number of households served in the county program is 4216.
- The households were charged a fee of \$180 per year for solid waste services.
- Gates County's cost to operate the PCG transfer station facility was approximately \$66,988.

Table 7: Gates County Solid Waste Management Costs for Fiscal Year 2010/2011

GATES COUNTY	1. TONS COLLECTED	2. COLLECTION COSTS	3. DISPOSAL COSTS	TOTAL COST INCLUDING OVERHEAD	COST PER TON MANAGED
Municipal Solid Waste	4592	\$107,984	\$256,671	\$477,517	\$
Recycling Program	389	\$ 14593	0	\$29,844\$	\$
Yard Waste Program	324	\$ 23348	0	\$47,751	\$
Calculated Totals	5,305	\$ 145,925	\$256,671	\$555,112	\$

Table 8: Town of Gatesville Solid Waste Management Costs for Fiscal Year 2010/2011

TOWN OF GATESVILLE	1. TONS COLLECTED	2. COLLECTION COSTS	3. DISPOSAL COSTS	TOTAL COST INCLUDING OVERHEAD	COST PER TON MANAGED
Municipal Solid Waste	167	\$	\$	\$28,600	\$171.26
Recycling Program	27	\$	0	\$1,851	\$68.56
Yard Waste Program	0	\$	0	\$	\$
Calculated Totals	194	\$	\$	\$30,451	\$157.00

Table 9: Household User Fees, 2012

Local Government	Charge per Household per Year	Charge per Business per Year
Gates County	\$180	\$90 or \$125
Gatesville	\$00	\$0

X. Facilities and Resources Available

Waste Collection, Hauling, Recycling:

- Waste Industries, Elizabeth City
- GDS, Washington, NC
- Tidewater Fibre, Chesapeake, VA
- Waste Management, Chesapeake, VA
- Bowen, Belhaven, NC
- Bay Disposal, Chesapeake, VA

Recycling and Special Wastes:

- East Carolina Vocational Center, Greenville, NC
- US Filter, Chesapeake, VA
- Heritage Crystal Clean, Richmond, VA
- Elizabeth City Glass Inc., Elizabeth City, NC
- Waste Management, Chesapeake, VA
- Butler Paper Company, Suffolk VA
- Tidewater Fibre, Chesapeake, VA
- Central Carolina Tire, Sanford, NC
- Liverman's Metal Recycling
- Chowan Metal Recycling
- eCycleSecure
- Creative Recycling

Wood Grinding or Debris Management Companies:

- Guy Shavender Trucking, Inc., Pantego, NC
- EJE Recycling & Disposal, Inc, Greenville, NC
- Vico Construction Company, Chesapeake, VA
- Bear Garden, Elizabeth City
- East Coast Abatement, Currituck
- Bowen, Inc.
- Crowder Gulf

Hazardous Wastes

- Safety Kleen, Chesapeake, VA
- ECOFLO
- FCC/ Environmental, Norfolk, VA
- Noble Oil
- Clean Harbors, Reidsville, NC
- Heritage Crystal Clean, Richmond, VA

Disposal

- Republic Services of North Carolina, LLC, owner of East Carolina Environmental Landfill, Aulander, NC
- PCG Landfill, (transfer station and LCID Notification Site) Belvidere

Local Government Contacts

**Mr. Toby Chappell, County Manager
Gates County**

PO Box 141
Gatesville, NC 27938
(252) 357-1240
Fax: (252) 357-0073
tchappell@gatescountync.gov

**Mr. Brad Gardner, Supervisor
Perquimans, Chowan, Gates Landfill
Commission**

Rt. 2 Box 152 C
Belvidere, NC 27921
(252) 297-3300 fax: (252) 337-7909
Mr. Jeff Perry, Assistant Supervisor
bgardner@arhs-nc.org

**Mr. Elton Winslow, Mayor
Town of Gatesville**

PO Box 1
Gatesville, NC 27938
Town office: (252) 357-1001
(252) 357-0720
fax: (252) 357-205
mayorwinslow@hotmail.com

**Mr. Ralph Hollowell, Director
Albemarle Regional Solid Waste
Management Authority**

PO Box 189
Elizabeth City, NC 27907-0189
(252) 338-4490 fax: (252) 337-7921
rhollowell@arhs-nc.org

Ms. Anne Blindt, Administrative Assistant,
Recycling Coordinator
(252) 338-4458
ablindt@arhs-nc.org

Appendix A
Resolutions from all Participating Entities
Town of Gatesville

NORTH CAROLINA

GATES COUNTY

RESOLUTION TO APPROVE
TOWN OF GATESVILLE
10-Year Solid Waste Management
July 1, 2009 - June 30, 2019
(PLAN for 3-Year Update)

WHEREAS, Better planning for Solid Waste Management will help protect Public Health and the Environment, provide for an improved Waste Management System, better use of our natural resources and control the cost of solid Waste Management and

WHEREAS, North Carolina General Statute 130A.309A:B) requires each unit of local government, either individually or in cooperation with other units of local government to develop a 10-year comprehensive solid waste management plan, and

WHEREAS, the Town of Gatesville was actively involved in the planning process.

NOW, THEREFORE, BE IT RESOLVED THAT THE TOWN OF GATESVILLE Town Council approves the comprehensive Solid Waste Plan upon motion of Councilman Hobbs, seconded by Councilman Smith.

Adopted this, the 6th day of June, 2012.



ELTON L. WINSLOW, Mayor

APPROVED:

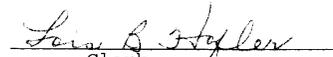


WADE W. HOBBS



FREDERICK P. SMITH

ATTEST:



Clerk

**Appendix A
Resolutions from all Participating Entities
Gates County**

Graham Twine
Chairman
Hollyville

John Rara
Blive

Ken Jernigan
Gates

Gates County Board of Commissioners

Post Office Box 148
Gatesville, North Carolina 27938
Tel (252) 357-2411 / FAX (252) 357-0073
Toby L. Chappell, County Manager

Emory Jordan
Vice-Chairman
Sunbury

Jack Owens
Gatesville

**RESOLUTION
TO APPROVE THE PERQUIMANS CHOWAN GATES (PCG)
10-YEAR SOLID WASTE MANAGEMENT PLAN UPDATE
FOR JULY 1, 2012 – JUNE 30, 2022**

WHEREAS, better planning for solid waste management will help protect public health and the environment, provide for an improved solid waste management system, better use of our natural resources, control the cost of solid waste management; and

WHEREAS, North Carolina General Statute 130A-309.09A(b) requires each unit of local government, either individually or in cooperation with other units of local government, to develop a 10-year comprehensive solid waste management plan; and

WHEREAS, Gates County was actively involved in the planning process;

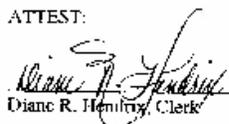
NOW, THEREFORE, BE IT RESOLVED that the Gates County Board of Commissioners approves the comprehensive solid waste management plan.

Adopted this the 6th day of June, 2012.



Graham L. Twine, Chairman
Gates County Board of Commissioners

ATTEST:


Diane R. Hendrix, Clerk



**Appendix B
Copy of Notices for Public Meetings
Gates County**

SCHOOL NEWS
eligible to compete at National History Day at the University of Maryland in June.



Family Foods Mini-Storage
Gates 357-1466 Gatesville 357-1466
Sunbury 465-8580 Corapeake 465-8580

able Roofing... Expert Work
ards Roofing, Inc.
ing in Shingles, Metal & Flat Roof
All Shingles
100% Labor & Material Warranty
Free Estimates 252-287-8207
No Job Too Small



Todd's Pharmacy Gates

Gates County

Public Notice

The Gates County Board of Commissioners will hold a public meeting at 10:00 a.m. on Wednesday, June 6, 2012 in the main courtroom, 202 Court Street, Gatesville, NC, to discuss the draft of Gates County's Solid Waste Management Plan for the period of July 1, 2012 – June 30, 2022. The plan is prepared in accordance with the NC General Statute 130A-309.09A(b) for the purpose of meeting local solid waste needs and protecting the public health and the environment. A copy of the draft plan is available for review at the County Manager's Office.

Public Hearing Notice

This is to inform the public of the opportunity to attend a public hearing on the County's Rural Operating Assistance Program (ROAP) application to be submitted to the North Carolina Department of Transportation no later than June 26, 2012 by the County of Gates. The public hearing will be held on June 6, 2012 at 10:00 A.M. at the Gates County Commissioners' meeting in the Gates County Commissioner's Room located at 202 Court Street, Gatesville, NC 27938. Gates County will provide auxiliary aids and services under the ADA for disabled persons who wish to participate in the hearing. Anyone requiring special services should contact Patricia Turner, Director, Transportation Director, as soon as possible so that arrangements can be made.

The programs included in the Rural Operating Assistance Program application are:

1. Elderly & Disabled Transportation Assistance (EDTAP) provides assistance for the public transportation of elderly and disabled persons.
2. Employment Transportation Assistance Program provides assistance for the public transportation of persons with employment related transportation needs.
3. Rural General Public (RGP) Program provides assistance for the public transportation of persons living in non-urban areas of the county.

The period of performance for Rural Operating Assistance Program is July 1, 2012 through June 30, 2013. The FY2013 individual program totals are:

PROGRAM	TOTAL
EDTAP	3,475,000
EMPL	56,444
RGP	2,400,000
TOTAL	6,331,444

**Appendix B
Copy of Notices for Public Meetings
Town of Gatesville**

Public Notice run in the Gates County Index

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We love you so much!

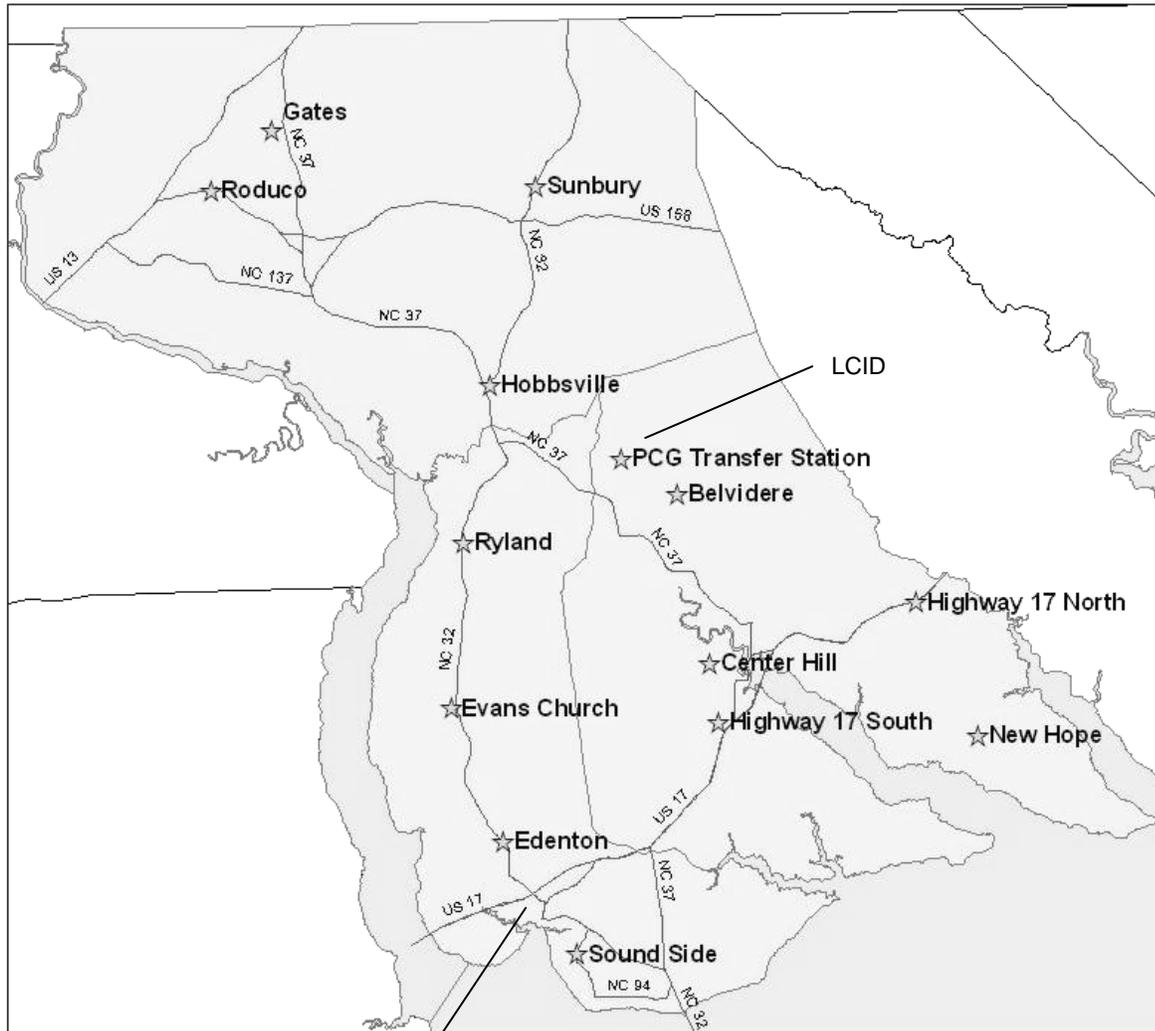
PUBLIC HEARING NOTICE

The Gatesville Town Council is holding a public meeting on Monday, June 25, 2012 at 7:00 PM at the Town Hall to discuss the draft of Town of Gatesville's Solid Waste Management Plan for 3-year update of period of July 1, 2009 - June 30, 2019. The plan is prepared in accordance with NCGS 130A (b) for the purpose of meeting local solid waste needs and protecting the public health and the environment. A copy of the draft plan is available for review at the Town Hall.

The Gatesville Town Council is holding a public hearing on Monday, June 25, 2012 at 7:30 PM at the Town Hall to discuss proposed budget for July 1, 2012 - June 30, 2013, copy of which is available for review during business hours at office of Michelle R. Sawyer, US Hgwy 158-W, Gatesville.

**V A
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TIC
OUSE!**

Appendix C Map of Facilities and Disposal Sites



Edenton
Transfer Station

Appendix D Waste Evaluations Part I

Waste Stream Characterization. Descriptions of Non-Residential Waste Generated in Gates County

Materials generated by these types of businesses

Misc. retail stores, restaurants, and other businesses	paper, cardboard, food waste, wood, plastic, pallets, metal, textiles, electronics, paints, hazardous materials, cooking oil, glass, Fluorescent bulbs, Mercury-containing thermostats, used oil, oil filters, pallets, tires
Medical services, nursing homes	plastic, paper, cardboard, food wastes, textiles, metal, electronics, bio-hazardous materials, Hazardous wastes, glass, Fluorescent bulbs, Mercury-containing thermostats, used oil, oil filters, cooking oil, pallets
Government complex, school system	paper, cardboard, food waste, plastic, metal, textiles, electronics, motor oil and cooking oil, glass, Fluorescent bulbs, Mercury-containing thermostats, used oil, oil filters, cooking oil, hazardous materials, pallets, tires
Agricultural, forest products	paper, cardboard, food waste, plastic, metal, textiles, electronics, Fluorescent bulbs, pesticide containers, Mercury-containing thermostats, used motor oil, oil filters, cooking oil, hazardous materials, tires, pallets

**Appendix D
Waste Evaluations
Part II
Gates County Workforce in Depth Report, 2011**

III. Twenty-Five Largest Employers (updated 3/2012)

Custom Region Summary

Quarter Ending Sept. 30, 2011

<u>Company Name</u>	<u>Industry Description</u>	<u>Employment</u>	<u>County</u>
1. GATES COUNTY BOARD OF EDUCATION	Education & Health Services	250-499	Gates
2. GATES COUNTY	Public Administration	50-99	Gates
3. ASHTON LEWIS LUMBER CO	Manufacturing	50-99	Gates
4. DOWN EAST HEALTH & REHAB CENTER	Education & Health Services	50-99	Gates
5. FAMILY FOODS OF GATESVILLE INC	Trade, Transportatioon & Utilities	50-99	Gates
6. PKL SERVICES INC	Trade, Transportatioon & Utilities	Below 50	Gates
7. GATES CUSTOM MILLING INC	Manufacturing	Below 50	Gates
8. HARRELL MEDICAL TRANSPORT INC	Education & Health Services	Below 50	Gates
10 DORIS & ROGERS KITCHEN	Leisure & Hospiatlity	Below 50	Gates
10 U S POSTAL SERVICE	Trade, Transportatioon & Utilities	Below 50	Gates
11 N C DEPARTMENT OF TRANSPORTATION	Public Administration	Below 50	Gates
12 MIDWAY CHEVROLET	Trade, Transportatioon & Utilities	Below 50	Gates
13 GATES COUNTY ANIMAL CLINIC PA	Professional & Business Services	Below 50	Gates
14 MILLER FUNERAL HOME	Other Services	Below 50	Gates
15 SAREM FARMS INC	Natural Resources & Mining	Below 50	Gates
16 TARHEEL BAR B QUE INC	Leisure & Hospiatlity	Below 50	Gates
17 ALEX M SANCHEZ	Natural Resources & Mining	Below 50	Gates
20 KELLOGG MORGAN AGENCY INC	Financial Activities	Below 50	Gates
20 DOLLAR GENERAL	Trade, Transportatioon & Utilities	Below 50	Gates
20 EAST COAST EQUIPMENT	Trade, Transportatioon & Utilities	Below 50	Gates
25 FAMILY FOODS CONVENIENCE	Trade, Transportatioon & Utilities	Below 50	Gates
25 A W BRINKLEY HARDWARE INC	Trade, Transportatioon & Utilities	Below 50	Gates
25 STATE OF NC DEPT OF ENVIRONMENT AND	Public Administration	Below 50	Gates
25 DIXIE AUTO PARTS	Trade, Transportatioon & Utilities	Below 50	Gates
25 CROSSROADS FUEL SERVICE, INC.	Trade, Transportatioon & Utilities	Below 50	Gates

Appendix D
Waste Evaluations
Part III
EPA Waste Stream Characterization
UNITED STATES WASTE COMPOSITION AND MATERIAL RECOVERY FROM
Residential, Commercial, and Institutional Sources

Table 1. Generation and Recovery of Materials in MSW, 2010* (in millions of tons and percent of generation of each material) Material

	Weight Generated	Weight Recovered	Recovery as Percent of Generation
Paper and paperboard	71.31	44.57	62.5%
Glass	11.53	3.13	27.1%
Metals			
Steel	16.90	5.71	33.8%
Aluminum	3.41	0.68	19.9%
Other nonferrous metals†	2.10	1.48	70.5%
Total metals	22.41	7.87	35.1%
Plastics	31.04	2.36	7.6%
Rubber and leather	7.78	1.17	15.0%
Textiles	13.12	1.97	15.0%
Wood	15.88	2.30	14.5%
Other materials	4.79	1.41	29.4%
Total materials in products	177.86	64.78	36.4%
Other wastes			
Food, other‡	34.76	0.97	2.8%
Yard trimmings	33.40	19.20	57.5%
Miscellaneous inorganic wastes	3.84	Negligible	Negligible
Total other wastes	72.00	20.17	28.0%
Total municipal solid waste	249.86	84.95	34.0 %

* ♦ Includes waste from residential, commercial, and institutional sources.

† ♦ Includes lead from lead-acid batteries.

‡ ♦ Includes recovery of other MSW organics for composting. Details might not add to totals due to rounding. Negligible = Less than 5,000 tons or 0.05 percent.

Significant amounts of material from each category were recycled or composted in 2010. The highest recovery rates were achieved in paper and paperboard, yard trimmings, and metals. We recycled more than 62 percent of the paper and paperboard we generated. Over 19 million tons of yard trimmings were composted, representing almost a five-fold increase since 1990. Recycling these three materials alone kept almost 29 percent of MSW out of landfills and combustion facilities. Recycling amounts and rates (recovery as a percent of generation) for all materials in 2010 are listed in Table 1.

Source: http://www.epa.gov/osw/nonhaz/municipal/pubs/msw_2010_factsheet.pdf

**Appendix D
Waste Evaluations
Part IV
United States Total MSW Generation, 2010**

250 Million Tons (before recycling)

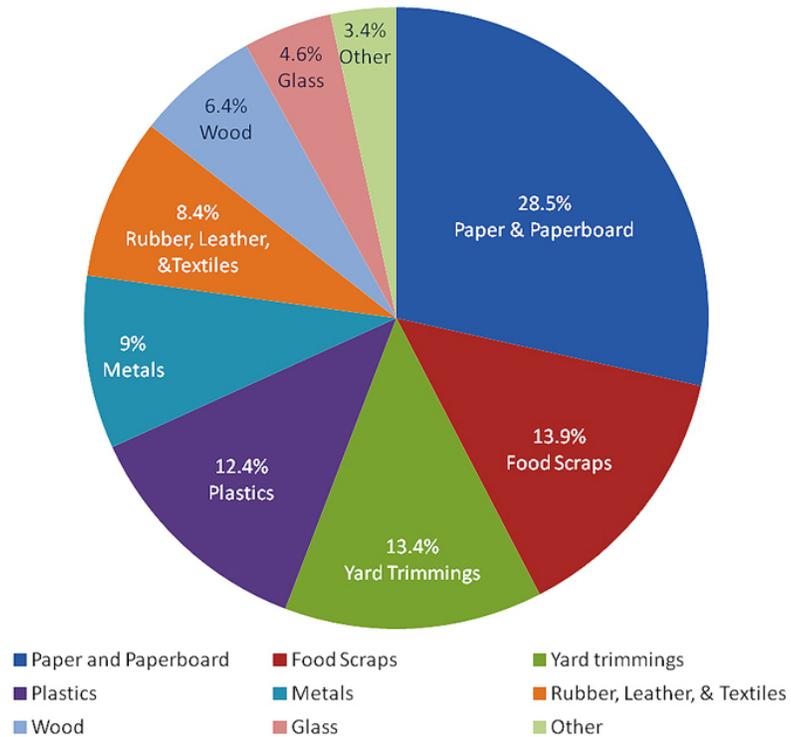
This pie chart from the US EPA depicts the percentage by which different materials contribute to the municipal solid waste stream. This information can be found at:

<http://www.epa.gov/waste/nonhaz/municipal/index.htm>

The breakdown is as follows:

- Paper: 28.5%
- Food Scraps: 13.9%
- Yard Trimmings: 13.4%
- Plastics: 12.4%
- Metals: 9.0%
- Rubber, Leather, and Textiles: 8.4%
- Wood: 6.4%
- Glass: 4.6%
- Other: 3.4%

**2010 Total MSW Generation (by Material)
250 Million Tons (Before Recycling)**



Appendix E
WASTE REDUCTION GOAL SHEET
Gates County
Planning years 2012-2022

Local Government Name: **Gates County**

Previously established waste reduction goal: 25 %

After considering your government's current and projected solid waste activities, resources, population, and economic growth have you reached your previously established goal?

Yes **No**

Establish a new waste reduction goal: 35 %

WASTE REDUCTION CALCULATION

To provide 10 years of solid waste management planning, as per G.S. 130A-309.09A(b), waste reduction goals need to be updated. Use the following chart to determine the tonnage needed to be diverted from landfills in order to reach the new waste reduction goal.

CALCULATION

FY 2012

1. Baseline year per capita disposal rate (FY 1991-1992 unless alternate approved by Section)	0.63
2. Percent waste reduction goal	35%
3. Targeted per capita disposal rate (Subtract line 2 from 1.0 and multiply result by line 1)	0.41
4. Estimated population in the new waste reduction goal year 2022	15,000
5. Projected tonnage for disposal at baseline disposal rate (Multiply line 1 by line 4)	9,450
6. Targeted annual tonnage for disposal (Multiply line 3 by line 4)	6,150
7. Targeted annual tonnage to reduce (Subtract line 6 from line 5)	3,300

Population Link:

http://www.osbm.state.nc.us/ncosbm/facts_and_figures/socioeconomic_data/population_estimates/demog/cpa2010p.html

WASTE REDUCTION PLAN

Given the targeted annual tonnage amount to be reduced, explain how you plan to reach the goal:

1000 tons by increasing recycling; 400 tons by source reduction; 300 tons by composting; 1200 tons by recycling special wastes, 400 tons by education

Appendix E
WASTE REDUCTION GOAL SHEET
Town of Gatesville

Local Government Name: Town of Gatesville

Previously established waste reduction goal: 30 %

After considering your government's current and projected solid waste activities, resources, population, and economic growth have you reached your previously established goal?

Yes **No**

Establish a new waste reduction goal: 33 %

WASTE REDUCTION CALCULATION

To provide 10 years of solid waste management planning, as per G.S. 130A-309.09A(b), waste reduction goals need to be updated. Use the following chart to determine the tonnage needed to be diverted from landfills in order to reach the new waste reduction goal.

CALCULATION

FY 2012

1. Baseline year per capita disposal rate (FY 1991-1992 unless alternate approved by Section)	0.61
2. Percent waste reduction goal	33%
3. Targeted per capita disposal rate (Subtract line 2 from 1.0 and multiply result by line 1)	0.41
4. Estimated population in the new waste reduction goal year 2022	313
5. Projected tonnage for disposal at baseline disposal rate (Multiply line 1 by line 4)	191
6. Targeted annual tonnage for disposal (Multiply line 3 by line 4)	128
7. Targeted annual tonnage to reduce (Subtract line 6 from line 5)	63

Population Link:

http://www.osbm.state.nc.us/ncosbm/facts_and_figures/socioeconomic_data/population_estimates/demog/cpa2010p.html

WASTE REDUCTION PLAN

Given the targeted annual tonnage amount to be reduced, explain how you plan to reach the goal:

50 tons by increasing recycling; 7 tons by source reduction; 6 tons by recycling special wastes

Appendix F
Planning Elements Sheets
Planning years 2012-2022
Source Reduction

Completed Actions Key Actions

Incomplete Actions

Why Incomplete?

New / Revised Actions

Gates County

- All of the educational efforts and practices target the towns as well as the counties and will be continued through 2022.
- Office and home source reduction education ideas will be updated in 2012 on the Solid Waste Management Authority web site. This will be linked to the Gates County website.
- The local government offices and facilities will continue to practice source reduction measures through 2022.
- PCG will continue with pesticide container recycling through 2022.

Estimated tons diverted in 10th Gatesville 7 tons Gates County 400 tons

Planning Elements Sheets
Collection

Completed Actions

Gates County

- Collection hours have been reduced by one day a week at convenience stores in Gates Counties with little/ no adverse effect

The Town of Gatesville

- Began curbside recycling in 2010

Incomplete Actions

New / Revised Actions

Gates County plans to

- The county, through the PCG, intends to continue to contract with a hauling company to remove all materials from the convenience sites. This contract is currently with GDS, a subsidiary of Republic Services for the next 5 years.
- PCG will operate the PCG transfer station through 2022.
- The PCG Facility will continue to operate the LCID/yard waste collection site, white goods collection site plus collect and process special wastes through 2022.
- The PCG Facility will continue to operate the LCID/yard waste collection site, white goods collection site plus collect and process special wastes through 2022.

The Town of Gatesville

- Continue with its current programs through 2022.

Estimated tons diverted in 10th year N/A

Appendix F
Planning Elements Sheets
Reduce and Recycle

Completed Actions

- PCG Landfill Commission stopped its commercial office paper recycling program in 2008. All mixed paper is accepted at the convenience sites for recycling
- PCG Landfill Commission stopped its pesticide container collection route in 2008 but continues to accept them at the landfill facility.
- The school system has been recycling commingled materials and paper.

Incomplete Actions

Why Incomplete?

New / Revised Actions

Gates County plans to

- Continue to operate its swap shop through the year 2022.
- Continue to modify and improve its recycling services as grant funding becomes available from DENR, through the year 2022. It will comply with other state landfill bans as they become laws.
- The counties (PCG) would like to begin a program to accept latex paint from residents but have not set a goal date yet.

The Town of Gatesville

- The Town Gatesville will make every effort to get all small businesses and residents to recycle, and it plans to continue this program through 2022.

Estimated tons diverted in 10th year Gates County 1000 tons Gatesville 50 tons

Planning Elements Sheets
Purchase of Recycled Materials

Completed Actions

Incomplete Actions

Why Incomplete?

New / Revised Actions

- Both local governments intend to purchase more recycled products through 2022.
- Gates County will consider passing a "Buy Recycled" policy resolution by 2022.

Estimated tons diverted in 10th year N/A

Appendix F
Planning Elements Sheets
Composting and Mulching

Completed Actions

- PCG maintains a grinding contract for yard waste

Key Actions

Incomplete Actions

Why Incomplete?

New / Revised Actions

Gates County, through PCG Landfill Commission,

- Intends to have to yard waste, untreated lumber, and pallets ground at least two or three times a year at the solid waste facility in Belvidere
- Plans to have the grinding company market all usable wood as boiler fuel.
- PCG will put out RFP's as needed through 2022 to keep providing this service.

The Town of Gatesville

- Continue to encourage residents to bring yard waste to the county convenience centers through 2022

Due Date

Estimated tons diverted in 10th year Gates County 300 tons

Planning Elements Sheets
Incineration With Energy Generation

Completed Actions

Key Actions

Incomplete Actions

Why Incomplete?

New / Revised Actions

Incineration with Energy Recovery

- This option is not available because no companies operate waste incinerators within this region and the county has a long-term landfill disposal contract.

Incineration without Energy Recovery

- This option is not available because no companies operate waste incinerators within this region and the county has a long-term landfill disposal contract.

Due Date

Estimated tons diverted in 10th year N/A

Appendix F

Planning Elements Sheets

Special Waste Management

Completed Actions

- PCG sent employees to school to learn to remove Freon from appliances in 2008
- The counties continue to manage junk vehicles using code enforcement procedures.
- Demolished mobile homes are accepted at PCG if source separated. The metals, tires, and white goods are recycled.
- PCG Landfill Commission entered into a new scrap metals contract in July 09 which brought Gates County higher revenues.
- PCG used state funds to help finance the electronics and TV recycling program in 2011. Gates County participates in the PCG Landfill Commission recycling program.

Incomplete Actions

- Obtain grants for conducting more HHW collections for region
- Request funds from the Scrap Tire Funds for roll-off containers for tires to be collected at the sites by the year 2010.
- Obtain funds through a White Goods Fund to purchase the Freon-removal equipment and tools and a shed to store them in by 2012 so that it can manage the Freon in-house.
- In 2012 Gates County to begin an abandoned mobile homes recycling program.

Why Incomplete?

- USDA Grant applied for in 12/08 was not obtained
- No scrap tire funds available for containers.
- Grant for Freon-removal equipment not approved yet.
- Mobile home program not begun due to lack of staff resources and county using existing ordinances. Local residents are also selling the metals to scrap metal dealers so problem is not so great.

New / Revised Actions

PCG Landfill Commission

- Special Waste programs are frequently reevaluated, and changed if money and/or labor can be saved. Many of the markets and processors currently used will remain as is until individual contracts need to be renegotiated. This practice will continue through 2022.
- PCG plans to implement new special waste programs if and when they are needed through 2022.
- The county will continue to use funds from the state to finance the electronics and TV recycling program through 2022.
- PCG will try to obtain funds through a White Goods Fund grant the funding to purchase the Freon-removal equipment and tools and a shed to store them in by 2015 so that it can manage the Freon in-house.
- PCG will seek funding as needed from the White Goods Account to improve its transportation, processing, and storage site for white goods through 2022.
- PCG intends to continue collecting scrap tires at convenience centers when feasible.

Gates County

- Will continue to manage junk vehicles using code enforcement procedures through 2022.
- If they can acquire grant funding, the counties would consider developing a program to collect and temporarily store unwanted pesticides in cooperation with NCDA & CS, possibly by 2015. NCDA & CS would pick up the pesticides and dispose of them at no charge to the county.

The Town of Gatesville

- Will encourage residents and businesses to participate in the special waste collections offered by the county through 2022.

Estimated tons diverted in 10th year Gates County 1200 tons, Gatesville 6 tons

Appendix F
Planning Elements Sheets
Solid Waste Sent Outside the Geographic Region

Completed Actions

- Negotiated a new regional contract with Republic Services for operating the transfer stations and accepting waste at the ECE Landfill in Bertie County through 2035
- Solid Waste Authority released an RFP for managing transfer stations and hauling waste to the ECE Landfill in 2008; rejected all bids

Incomplete Actions

Why Incomplete?

New / Revised Actions

PCG Landfill Commission

- The county plans to continue to transfer waste to the ECE Landfill under these arrangements for the duration of the contract, through 2035.
- Both the PCG and Edenton transfer stations will continue to load recyclables for as long as it is feasible. If markets open nearer, they may haul to those directly.

Estimated tons diverted in 10th year N/A

Planning Elements Sheets
Education

Completed Actions

Key Actions

- Updated recycling / solid waste brochures for towns/ counties in 2011 and posted these to Regional Authority web site.
- PCG and Regional Authority staff participate in civic group, school, and special event educational programs
- Take some citizens, govt. officials, and convenience site attendants on tours to recycling facilities and regional landfill every year.

Incomplete Actions

New / Revised Actions

Regional/ County

- The counties intend to ask for assistance from NC DENR in the form of solid waste assistance grants for educational efforts through the year 2022.
- The counties plan to use cable access channels to distribute information including upcoming special waste events, beginning in 2013.
- The counties will continue to train the convenience site attendants annually and bring them and others to the MRF through 2022, including tours of the MRF.

Estimated tons diverted in 10th year 400

Appendix F
Planning Elements Sheets
Illegal Disposal, Littering

Completed Actions

Incomplete Actions

New / Revised Actions

PCG Landfill

- PCG Landfill will coordinate illegal tire dumpsite cleanups with the DENR Division of Waste Management through 2022.
- The county and town plan to continue working with NC Big Sweep, Adopt-A-Highway, and other volunteer programs through 2022.
- The County Planning and Inspections Department will enforce county codes through the year 2022.

Estimated tons diverted in 10th year N/A

Planning Elements Sheets
Disaster Debris Management

Completed Actions

Incomplete Actions

Why Incomplete?

New / Revised Actions

- Gates County - Appendix G: Disaster Plan
- The PCG Landfill Commission Disaster Plan is attached.
- PCG Landfill Commission has an agreement with a company to grind yard waste in an emergency.
- PCG Landfill and the county plan to work with NCDA, FEMA, and DENR to be ready to segregate, store, and transport, green waste, demolition debris, hazardous waste, and MSW in the event of major storm damage within the region. The NCDA & CS services would be used to dispose of hazardous pesticides.
- Through 2022, PCG and the county plan to receive compensation from the state and FEMA for added expenses for management of storm debris.

Estimated tons diverted in 10th year N/A

**Appendix G
Supporting Documents**

**Gates County Disaster Response Plan
Available on the Gates County web site
www._____**

Appendix G
Supporting Documents
PCG Landfill Disaster Plan

If a disaster strikes in this region, Gates County and the Town of Gatesville along with PCG Solid Waste Management Commission will use the following procedures to store, transport, and clean up any resulting household or commercial wastes, demolition debris, and yard debris.

After a disaster, public service announcements (PSAs) will be issued to local newspapers, radio stations, and TV stations that cover this area. The PSAs will give instructions to residents, business owners, and contracted haulers as to where to get further information about solid waste and debris management. Directions and phone numbers to the private regional landfill in Bertie County, (East Carolina Environmental) and to the Perquimans, Chowan, Gates (PCG) Landfill and Transfer Station in Belvidere will be available at the county and town offices and the convenience sites.

The individual counties will establish green debris areas and announce their locations and operation instructions. PCG Solid Waste Management and its contractors will do everything it can to re-open the PCG Landfill / Transfer Station and the county convenience sites as soon as possible after an emergency. If the waste containers at the county convenience sites are filled, then some yard waste may be placed on the ground as directed by the site attendants. PCG Solid Waste Management and the contractors will then work as quickly as possible to remove waste that is accumulated on the ground.

In the event that waste cannot be transported from the PCG Transfer Station to the regional landfill, waste will be accumulated in transport trailers at the site until it is feasible to move them.

PCG Landfill / Transfer Station 252-297-3300
759 Perry's Bridge Rd, Belvidere
Mon. – Friday 8:00 AM – 4:00 PM
All vehicles must cross scales. Follow scale operator's instructions.
During the cleanup phase, operating hours may be flexible. Please call ahead.

Gates County Sites

Hobbsville Site	465-4195
Sunbury Site	465-4565
Roduco Site	357-1577
Gates Site	357-2051

PCG Landfill Commission Disaster Plan

Waste Hauling and Dumping Instructions

Household Wastes: Residents are urged to use the nearest convenience site to dispose of or recycle normal household wastes and the special wastes usually accepted at these sites. All wastes should be separated into categories that will include but may not be limited to yard waste, household trash, and metals. Residentially generated pickup-truck size or smaller loads of demolition debris will be accepted at these sites if space is available. Residents should follow the site attendant's instructions, and leave no waste outside the fence. The towns that provide curbside pickup will announce pickup schedules and special instructions as soon as possible. Hazardous wastes should be separated and stored safely, and not placed with regular trash. No hazardous wastes will be accepted at the convenience sites, transfer station, or landfills.

Business, Institutional, and Industrial Wastes: Businesses should contact their regular commercial hauler to attain services. If a business contracts with an additional service provider, that provider will follow the instructions in this plan. Hazardous wastes should be separated and stored safely, and not placed with regular trash.

Contracted Haulers with Demolition Debris: Small truckloads will be accepted at the PCG Landfill / transfer station located in Belvidere. Larger loads may be diverted directly to East Carolina Environmental Landfill in Bertie County. Please call ahead to PCG to receive instructions. No hazardous wastes will be accepted at the convenience sites, transfer station, or landfills.

Contracted Haulers with Land Clearing and Inert Debris: Separated inert debris (concrete, brick, asphalt, untreated, unpainted lumber, pallets, stumps, limbs, logs) will be accepted at the PCG Landfill / transfer station in Belvidere. The hauler will be responsible for separating out any materials that are not acceptable in the LCID landfill, and taking them to the proper disposal or recycling sites.

Yard Waste: Contractors, businesses, and residents should follow instructions given by PCG Solid Waste Management. Unless directed otherwise, county residents with small amounts of yard waste are urged to bring the materials to the nearest convenience center. If large quantities of materials are generated, residents, businesses, and contracted haulers will be directed to bring the tree / limb / stump (green) debris to a designated short-term green debris storage area located within each county or directly to the PCG Landfill. Town residents should follow the town's instructions. Residents and businesses close to the PCG Landfill / Transfer Station may be asked to bring yard waste there.

Scrap Metal: Scrap metals and appliances will be accepted at the PCG Landfill. Small amounts will be accepted at the county convenience sites. All appliances must be emptied of waste.

PCG's current convenience site contractor will be responsible for moving all wastes that are stored at the convenience sites.

Junked Mobile Homes: The home should be emptied of all household goods and appliances and hazardous materials, and these materials should be properly stored, recycled, or disposed. The home owners are urged to find a contractor that can dismantle the home on site. Metals may be taken to licensed scrap metal business or to the PCG Solid Waste Management facility. PCG may accept C & D debris at the PCG Landfill / Transfer Station for disposal, but it may have to delay granting permission until space for the debris is made available.

All Junked Vehicles: Motor vehicles should be emptied of all personal items. Residents and businesses are urged to contact a private hauler or licensed junkyard for removal. Lists of haulers and junkyards may be available at the county planning and inspections offices and at PCG Solid Waste Management. If a licensed junkyard is not available, one may ask permission to bring the vehicle to the PCG landfill. Cars, trucks, buses, motorcycles may be accepted under terms specified by PCG. PCG may find it necessary to delay granting permission until space for the vehicles is made available. All vehicles will be dismantled and recyclable components will be recycled.

PCG's current wood waste grinding contractor will be responsible for moving all wastes that are stored at the yard waste and LCID designated areas on the PCG Landfill property as soon as possible. If FEMA should allow burning or grinding at this site, this may be done as feasible.

Hazardous Wastes: Hazardous wastes should be safely stored at the individual households and businesses where the wastes were generated until further instruction. The counties will not be responsible for hazardous materials. The counties will contact NC DENR, FEMA, and NCDA for further instructions. If an agency should be available to collect pesticides or other materials, residents will be given instructions to participate in these collections.

Hazardous Waste or Petroleum Product Spills: All inquiries about spills will be directed to the respective County's Emergency Management Coordinator.

Tipping Fees: In the event of a disaster, tipping fees may be charged on a per-truckload or per-container basis. The scale operator, facility operator, or gatekeeper may estimate a load by the number of cubic yards or tons of capacity of the vehicle or container. Bills may be generated and sent to the hauler at a later date.

Note: The counties, towns, and PCG Solid Waste Management Commission retain the right to

- Refuse waste at any of the town or county facilities
- Direct waste to a certain facility or property or location within a facility or property
- Charge the standard disposal rate per ton, per piece, or quantity (tipping fees)
- Ask for the origin of the waste and the hauler's identification and contact information
- Fully prosecute any person or party engaging in Illegal dumping

Appendix H Supporting Documents Electronics Recycling

10- YEAR SOLID WASTE MANAGEMENT PLAN AMENDMENT Electronics Disposal for Gates County, NC

Intended Actions:

1. Information on the existing electronics programs within the jurisdiction of Gates County. Gates County currently operates an electronics recycling program to which it will make several program improvements effective on or about January 1, 2011. Working cooperatively with Perquimans and Chowan Counties through Perquimans Chowan Gates (PCG) Landfill Commission, the county will provide more opportunities to recycle at convenience sites, in the Town of Gatesville, and at special events. The program will serve the residents, businesses, institutions, schools, and other state and local government offices. The program will recycle these materials and more: CRTs, TVs, hard drives, scanners, fax machines, copiers, and other miscellaneous electronic equipment. PCG Landfill Commission will continue to contract with an electronics recycling company that has received all certifications in compliance with the requirements of the State of North Carolina.

The materials will be collected in an e-waste recycling trailer and in the existing swap shops. The convenience sites, where most of the collections will take place, are staffed and maintained by the county. The materials will be transported to the PCG Landfill Commission / Transfer Station at 759 Perry's Bridge Rd. Belvidere, NC. At that site, county staff will palletize the electronics using Gaylord boxes and shrink wrap and store them in the secure warehouse. ECycleSecure will pick the materials up and transport them to their facility for recycling.

2. Information on the Gates County public awareness and education programs.

The PCG Landfill Manager / Recycling Coordinator will work on educating the residents, government and private sector workers about the availability of the electronics and TV's recycling program. The coordinator will design signage, flyers and posters and for the program, will update web sites, and will get articles put into the local newspapers and newsletters. Flyers will be distributed at each convenience site, at the county and town offices, and in the schools. Signs on the trailers and at the landfill site will promote the program and give collection locations. The flyers will include an explanation of the new landfill ban on CRTs and TV's.

3. Information on how Gates County will track and report total tonnage.

Each load of materials that is collected in Gates County will be weighed at PCG Landfill Commission and the tonnage will be recorded. This information will be reported on the annual Solid Waste & Materials Management Annual Report to DENR. For each load it collects, eCycleSecure will send to PCG a statement that lists the tonnage of materials broken down by computer equipment, televisions, and other electronic material. ECycleSecure will keep this data record in its files.

4. Information on how Gates County will work with other local governments.

The Town of Gatesville plans to participate in the Gates County Electronics and TV's Recycling program, A letter will be submitted to the state shortly to confirm that the Town of Gatesville accepts the changes to the PCG Landfill Commission 10-Yr. solid waste plan. Residents of the Town of Gatesville will be encouraged to use the county drop-off site locations. The e-waste recycle trailer will also be mobilized for fairs, one-time collection events and other municipal events. PCG also plans to partner with neighboring counties in scheduling joint collection times with eCycleSecure to make the company's route in northeastern NC efficient.

5. Information on how Gates County will use state funds. Gates County will establish an account for the receipt and expenditure of funds that are received from the State's Electronics management Program. The County will track all expenditures of these funds, and will spend the funds only in support of the electronics recycling program. The potential use of these funds include expenditures for educational efforts and for supplies and equipment to handle e-waste.

Current program information, June 2012.

- **Participants in the program:** The electronics recycling program is part of a three-county four town program operated out of the PCG Landfill. The Town and County share one program in which residential, institutional, governmental and commercial TV's and electronics are accepted at two locations. The county currently has one electronics collection trailer that it rotates between its four convenience sites. The electronics can also be taken to PCG Landfill. Electronics from the **Counties of Chowan, Perquimans and Gates** plus from the **Towns of Edenton, Winfall, Hertford, and Gatesville** are all accumulated together at PCG Landfill in Belvidere and sent to market from there.
- **Materials Handling:** At the PCG Landfill site, staff uses a forklift to unload the trailers. They sort and palletize the electronics using Gaylord boxes and shrink wrap and store them in the warehouse.
- When a truck load is accumulated, the vendor picks up the materials and transports them to their facility for recycling. The county has used the vendors **Creative Recycling, eCycleSecure and American Greenz** in 2011-2012. It will continue with eCycleSecure for the upcoming year. The county plans to use only vendors that are e-steward or R2 certified.
- **State requirement Tonnage tracking.** The weights of each of the electronics loads from the three **counties are weighed and recorded as they enter the landfill facility.** The invoice or receipt from the vendor gives the weight of each of the types of items that it collected from the PCG facility. When a receipt is acquired from the vendor, these weights are split proportionately to the incoming loads from each county. This information is reported in the Local Government Annual Report to DENR.
- **Materials Recycled:** The program recycles these materials and more: CRTs, TVs, hard drives, scanners, fax machines, copiers, VCRs, telephones, DVD players, mice, printers, radios, cords, medical electronics, rechargeable batteries, surge protectors and other miscellaneous electronic equipment. The recycler also accepts fluorescent lights.
- **Revenues and Expenses:** As reported to NC in March, 2011 on the questionnaire about the distribution of electronics funds, the county managed the Electronics funds in this manner: Perquimans County forwards these funds to Albemarle Regional Health Services for deposit into the Perquimans Chowan Gates (PCG) Landfill Commission budget line: 49700-415325 Gates State Electronics Tax. The funds were spent from a designated expense line 59700-528463 Gates Electronics Recycling. These funds supported the purchase of shrink wrap used to secure the electronics and TV's on pallets, plus signs, promotional fliers and brochures. This year PCG had to pay for the disposal of some materials. The funds also paid for some of the fuel for the forklift and trucks that pick up the electronics trailers and maintenance of the vehicles and equipment that are used to manage the electronics. In the near future the counties plan to purchase at least one new trailer for electronics.
- **Public Awareness:** The Electronics program is promoted through educational programs presented to civic groups and to school children. The program is also detailed in the county educational brochure, in the newspaper, and information is printed in handouts such as the one seen as Electronics Exhibit D, and on web sites.

Electronics Exhibit A. This is a copy of the E2 certification for eCycleSecure.



PERRY JOHNSON REGISTRARS, INC.

Certificate of Registration

Perry Johnson Registrars, Inc., has assessed the Environmental, Health and Safety Management System of:

eCycleSecure
4300 Northlake Court, Suite K, Charlotte, NC 28216 United States

(Hereinafter called the Organization) and hereby declares that the Organization has been audited by an ISO 17021 accredited certification body in conformance with applicable ANAB requirements and is found to be in conformance with all requirements of the

Responsible Recycling® (R2) Rev. 10/2008

This Registration is in respect to the following scope of supply:

Collection, Transportation, Segregation, Destruction, Reuse, Recovery and Disposal of Electronics, and the Destruction of Digital Data

Such products shall be manufactured by the Organization at, or such processes or services shall be offered at or from, only the address given above. This Registration is granted subject to the system rules governing the Registration referred to above, and the Organization hereby covenants with the Assessment body duty to observe and comply with the said rules.

For PJR:



Terry Boboige, President
Perry Johnson Registrars, Inc. (PJR)
755 West Big Beaver Road, Suite 1340
Troy, Michigan 48084
(248) 358-3388



The validity of this certificate is dependent upon ongoing surveillance.

<i>Effective Date:</i> February 25, 2011	<i>Expiration Date:</i> February 24, 2014	<i>Certificate No.:</i> C2011-00703
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Electronics Exhibit B. This is a copy of the ISO 9001 certification for Creative Recycling.
<http://www.crserecycling.com/pdf/TPA-9001-RIOS.pdf>



Electronics Exhibit C. These are of the invoices and other receipts from the vendors that the county sent electronics to in 2011/2012. Each one represents one load from the jointly operated Perquimans, Chowan, and Gates County PCG Landfill.

eCycleSecure, LLC
 4300 North Lake Court
 Suite K
 Charlotte, NC 28216

Invoice



Date	Invoice No.
04/04/12	4503

Bill To: Perquimans County Solid Waste 759 Perry's Bridge Road Belvidere, NC 27919
--

Ship To

P.O. Number	Terms	Ship Date	Ship Via	Container	Seal
	Due on rec...	03/26/12	Pick Up		

Item	Description	Net Quantity	Gross Wt	Pallets	Price Each	Amount
MITS Monitors	Monitors	2,415			0.00	0.00
MITS Computers	MITS Computers	1,451			0.00	0.00
MITS TV	MITS Televisions	14,888			0.00	0.00
MITS Misc	MITS Miscellaneous Consumer Electronics	735			0.00	0.00
MITS Low Grade	MITS Low Grade	2,944			0.00	0.00
MITS Printers & Peripherals	MITS Printers and Peripherals	1,375			0.00	0.00
MISC	Miscellaneous Scrap Items - METAL	200			0.00	0.00
Weight-In OEM	Weight-In OEM Recycling Post Consumer eScrap	24,008			0.00	0.00
CER	eCycleSecure hereby certifies that the materials as detailed herein were collected and recovered in accordance with our Environmental Policy, Responsible Recycling (R2) Guidelines, as well as ISO 9001:2008 and ISO 14001:2004 procedures that comply in every respect to all local, state and federal laws and regulations.				0.00	0.00
Total						\$0.00

eCycleSecure, LLC
 4300 North Lake Court
 Suite K
 Charlotte, NC 28216

Invoice



Date	Invoice No.
02/15/12	4216

Bill To:
Perquimans County Solid Waste 759 Perry's Bridge Road Belvidere, NC 27919

Ship To

P.O. Number	Terms	Ship Date	Ship Via	Container	Seal
	Due on rec...	10/17/11	Pick Up		

Item	Description	Net Quantity	Gross Wt	Pallets	Price Each	Amount
MITs Computers	MITs Computers	1,461			0.00	0.00
MITs Monitors	Monitors	3,898			0.00	0.00
MITs TV	MITs Televisions	10,154			0.00	0.00
MITs Misc	MITs Miscellaneous Consumer Electronics	274			0.00	0.00
MITs Printers & Peripherals	MITs Printers and Peripherals	3,460			0.00	0.00
Weight-In	Total Weight of Material Received for Responsible Recycling				0.00	0.00
CER	eCycleSecure hereby certifies that the materials as detailed herein were collected and recovered in accordance with our Environmental Policy, Responsible Recycling (R2) Guidelines, as well as ISO 9001:2008 and ISO 14001:2004 procedures that comply in every respect to all local, state and federal laws and regulations.				0.00	0.00
Total						\$0.00

PAID

eCycleSecure LLC
 4300 North Lake Court Suite K
 Charlotte, NC 28216

Invoice

Date	Invoice #
9/29/2011	23525

Bill To
Perquimans County S/W Perquimans, Chowan, Gates 759 Perry's Bridge Rd Belvidere, NC 27919

Pick Up Location

P.O. Number	Terms	Rep	Receiving Date	Via	F.O.B.	Project
Brad Gardner	Due On Recept	BDR	8/10/2011	Pick Up		
Quantity	Item Code	Description	Price Each	Amount		
33	Misc.	4ft Fluorescent Tubes	1.00	33.00		
36	Misc.	8ft Fluorescent Tubes	2.00	72.00		
5,469	MONITORS	Misc Monitors	0.00	0.00		
2,157	COMPUTER	Misc CPUs	0.00	0.00		
13,316	TELEVISIONS	SCRAP TELEVISION	0.00	0.00		
852	SALVAGE-C	Consumer Electronics	0.00	0.00		
2,741	SALVAGE-P	Printers & Peripherals	0.00	0.00		
178	SALVAGE	MISC LOW GRADE SCRAP ITEMS	0.00	0.00		
24,753	Weight Received	Total weight of material received	0.00	0.00		
	CER	CERTIFICATE OF ELECTRONIC RECYCLING: ON THE DATE SHOWN IN THE RECEIVING DATE BOX, eCycleSecure, LLC TOOK CUSTODY OF THE ABOVE LISTED ELECTRONIC EQUIPMENT. ALL OF THIS EQUIPMENT HAS BEEN RECYCLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. eCycleSecure, LLC CERTIFIES THAT ALL EQUIPMENT WILL BE DE-MANUFACTURED AND/OR REUSED IN COMPLIANCE WITH A "ZERO LANDFILL POLICY" AND ALL HARD DRIVES WILL BE WIPED OR DESTROYED AS PER CUSTOMER CONTRACT. COMPONENTS WILL BE RECYCLED IN COMPLIANCE WITH APPLICABLE EPA STANDARDS.	0.00	0.00		
		<i>pay w. fr these lines</i>	0.00%	0.00		
		<i>59700-528264 Pery Electronics 4 36.00</i>				
		<i>59700-528463 Gates Electronics 8 35.00</i>				
		<i>59700-528461 Chowan Electronics 8 34.00</i>				
		<i>105.00</i>				
Total						\$105.00

eCycleSecure, LLC
 4300 North Lake Court
 Suite K
 Charlotte, NC 28216

Invoice

Date	Invoice No.
02/16/12	4236

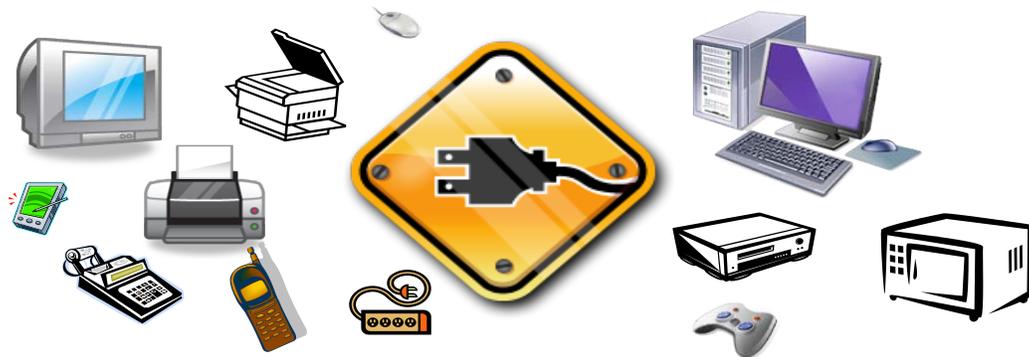
Bill To:
 Perquimans County Solid Waste
 759 Perry's Bridge Road
 Belvidere, NC 27919

Ship To

P.O. Number	Terms	Ship Date	Ship Via	Container	Seal
	Due on rec...	12/30/11	Pick Up		

Item	Description	Net Quantity	Gross Wt	Pallets	Price Each	Amount
MITS Computers	MITS Computers	4,945			0.00	0.00
MITS Monitors	Monitors	1,952			0.00	0.00
MITS Printers & Peripherals	MITS Printers and Peripherals	3,457			0.00	0.00
MITS TV	MITS Televisions	9,867			0.00	0.00
MITS Low Grade Fluorescent	MITS Low Grade Florescent Tubes and Lighting	2,261			0.00	0.00
		1,140			0.00	
Weight-In OEM	Weight-In OEM Recycling Post Consumer eScrap	23,622			0.00	0.00
CER	eCycleSecure hereby certifies that the materials as detailed herein were collected and recovered in accordance with our Environmental Policy, Responsible Recycling (R2) Guidelines, as well as ISO 9001:2008 and ISO 14001:2004 procedures that comply in every respect to all local, state and federal laws and regulations.				0.00	0.00
Total						\$0.00

Electronics Exhibit D. This is a copy of the electronics educational flyer for Gates County and the Town of Gatesville. The program is also detailed in the county solid waste and recycling brochure, and in the newspaper. Information is presented to civic groups and to school children.



Recycle Electronics Now!

Residents, businesses, and institutions in Gates County and the Town of Gatesville can now recycle **Electronics and TV's** at each of the county convenience sites during daylight hours according to the schedule below. The materials should be put into the electronics recycling trailer. Please ask the site attendant for assistance. The sites are closed on Tuesdays. No electronics should be removed from the sites.

Sunbury Site Jan. – March
Roduco Site July – Sept.

Gates Site April – June
Hobbsville Site Oct. – Dec.

Electronics are also accepted at the PCG Landfill year-round. The PCG Landfill is located on **Perry's Bridge Rd. in Belvidere.** Open **Mondays – Fridays, 8 AM – 4 PM.** For questions call Brad Gardner at 297-6524.



The PCG Landfill Commission will market the electronics to eCycleSecure. The fully certified company will handle the electronics in an environmentally responsible manner while giving data security a priority. These materials are processed at their secure facility in Charlotte, NC. More information about eCycleSecure is available at: <http://www.ecyclesecure.com/ElectronicsRecycling.html>.

What electronic items are acceptable?

- Computers – CPU's and laptops, mainframes, servers, peripherals
- Telephones, cell phones, answering machines, and telephone systems
- Printers, fax machines, copiers
- TV's and monitors– with intact CRT (tubes) plus LED & LCD, and plasma flat screens
- Keyboards, mice, speakers, parts and accessories, cables, surge protectors
- Cameras, projection and recording equipment
- Radios and stereos
- Testing and measuring equipment
- PDA's, video games and accessories consumer electronics
- Medical, banking and financial equipment
- CD's, video cassettes, Beta/ DAT Tapes
- Rechargeable batteries, UPS backups
- Microwave ovens, countertop appliances
- Typewriters, adding machines, calculators
- VCR's, DVD & CD players

Gates County Convenience Sites

Site locations and hours of operation are on the last page.

Residents can bring all of these materials to the sites:

Recyclables

Yard waste

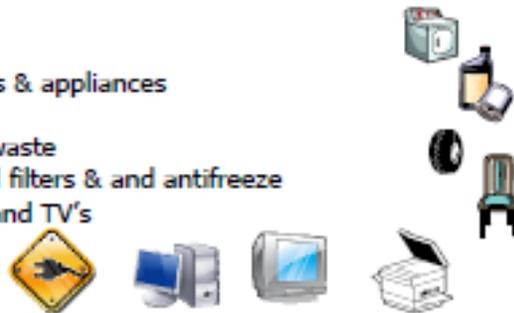
Scrap metals & appliances

Furnishings

Household waste

Motor oil, oil filters & and antifreeze

Electronics and TV's



Electronics and TV's are accepted at each of the sites on a rotating basis. Look for the electronics recycling trailer at these locations

Sunbury Jan. – March

Gates April – June

Roduco July – September

Hobbsville Oct. – Dec.

Electronics are accepted at the PCG Landfill year-round. Ask the site attendant for information about the program. The program accepts everything from TV's and computer equipment to telephones, rechargeable batteries, electronic games, VCR's, radios and more.

Tires should be left at the dealer where the new tires are purchased. Residents may bring in 5 tires at a time at no charge to PCG Landfill. Commercially generated tires are usually accepted at no charge if they were recently generated in N. C.

The swap shop at the Sunbury site is a great place to bring usable tools, furnishings, toys, etc. so they can be reused.

Town residents may use the county convenience sites as needed. Businesses may bring recyclables to the sites.

Commercial waste and commercial construction and demolition debris should be taken to the PCG Landfill in Belvidere.

Appendix I
Supporting Documents
Perquimans Chowan Gates Abandoned Mobile Home Plan
Policies and Procedures
As developed for 2004 – 2005 project

1. Homeowner / property owner calls Inspections / Planning
2. Inspector locates qualifying mobile homes
 - Will identify properties that meet criteria
 - Make contact with neighbor, homeowner (phone calls, door hanger, or flier)
 - Locate owner: DMV title search / deed search/ tax search / building / septic permit
 - Locate lien holder
3. Release forms with Notary witness / signatures
 - Number one set of documents for that project and complete, incl. notarization
 - Affidavit of Ownership
 - Denial of Duplication of Benefits
 - Hold Harmless Agreement
 - Release of Ownership
4. Work Orders:
 - Inspector originates orders
 - Safety Inspection
 - Mark house and attachments to be destroyed
 - septic field, tank, marked
 - water, electric, phone, sewer disconnected.
 - mark house & attachments
5. Coordinate job with PCG
 - Send copy of completed Work Order and 3 or four signed forms
 - Inform PCG of other possible orders in that area
 - Inform them of any extenuating circumstances or features about the property
6. PCG Work:
 - Order container to house site
 - Safety check on placement of container
 - Parking – traffic cones if necessary
 - Place Project sign at site - consider document tube

Order heavy equipment / employees to site
Lot inspection/ prep work. Check that all is done before beginning
Tree Removal
Electrical connection removed
Plumbing connection removed / septic tank and field marked
Water connection removed
Complete job
Order container to PCG transfer station
Report completion to Inspections
Bill owner
Track payments

7. Fees: Standards for charging home owner or property owner
 - Administrative Fee
 - Single wide
 - Double wide
 - Attachments
 - Labor / Machine time / hauling charges
 - Fees for Indigent / hardship / non-locatable owners
 - Application for fee waiver
 - Tip fee per unit if removed at home site \$1,000 for single-wides; \$2,000 for double-wides, and more for attached decks and rooms.
8. Owner delivering trailer to PCG:
 - Charge C & D tip fee if delivered to PCG Landfill