

**Currituck County  
Solid Waste Management Plan**

**July 1, 2012 – June 30, 2022**



**Submitted by the  
Currituck County  
Board of Commissioners**

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## EXECUTIVE SUMMARY

Currituck County is growing mainly because it offers a quality way of life, because of its proximity to the Hampton Roads area of Virginia, and because of its popular Outer Banks resort area. Both the mainland and the Outer Banks have increasing permanent populations, and the Outer Banks sees a huge seasonal increase in tourists. The county has recently completed infrastructure including schools, parks, a library, a YMCA-Parks & Recreation-Senior Center, and maintains satellite offices on the Outer Banks. It is also beginning new infrastructure projects including Moyock Central Sewer and Maple Commerce Park. Within the next few years a very large-scale bridge building project should be under way to span the Currituck Sound and connect the Outer Banks with the mainland.

The county maintains customized mainland and Outer Banks waste collection and recycling programs to make it easy for residents and visitors to participate in recycling while moving large volumes of trash as needed. The contract for this service is reviewed frequently, with new services added as needed. The county seeks to meet all of the state's rules and regulations and keep ahead of deadlines on materials banned from landfills (Aluminum cans, antifreeze, appliances, beverage containers, lead acid batteries, used motor oil, tires, yard waste, oil filters, oyster shells, plastic bottles, wooden pallets, computer equipment, televisions, fluorescent bulbs and other recyclable materials – e.g., glass bottles, cardboard, old phone books, used cooking oil, dry cell batteries and more).

The county has a "Going Green Initiative" in which county elected officials, department heads, NC Cooperative Extension Service, NC Forestry Services, CAMA, Sea Grant, and others work towards preserving environmental quality and the features that make Currituck County a desirable place to live and visit, and working towards less waste, more renewable energy and more energy efficiency for homes and businesses. This group will aid the county in achieving the goals through assisting with public awareness and educational programs, code enforcement, program development, and acquisition of funding.

### **Currituck County Goals**

Goal 1. To provide everyone in the community with waste disposal, capacity, waste collection services, and waste reduction opportunities.

Goal 2. To increase the efficiency and cost-effectiveness of the solid waste Program.

Goal 3. To meet the established local waste reduction goals.

Goal 4. To decrease improper waste disposal.

Goal 5. To protect the public health and the environment.

### **I. Geographic Description and Waste Stream Analysis**

Currituck County has experienced rapid county-wide growth in Northeastern North Carolina. The County consists of a mainland and an outer banks region, comprising a total of 262 square miles. The County is bordered by rivers, sounds, and the Atlantic Ocean, and to the north by the State of Virginia and to the west by Camden County. Currituck County has been a quiet farming, hunting, and fishing community for several hundred years, but in the past two decades it has changed rapidly. The permanent resident population, according to the most current Census, was 23,547 in the year 2010.<sup>1</sup> The population swells to

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<sup>1</sup> <http://quickfacts.census.gov/qfd/states/37/37053.html>

nearly triple that amount during tourist season in the late spring, summer, and early autumn months (approximately 50,000 to 60,000 visitors per week<sup>2</sup>).

Currituck County continues to grow at a fast rate. According to the American Census Bureau, Currituck has consistently ranked as one of the fastest growing counties in the past decade. With its favorable geographic location, Currituck County has become a bedroom community for the Hampton Roads area, and continues to attract residents that desire to live in close proximity to the Outer Banks beaches. The rapid residential growth has also increased demand for construction of public facilities and other nonresidential buildings. However, with the recent downturn in the economy, issuance of building permits and approval of nonresidential site plans has slowed considerably. While this downturn is not unique to Currituck County, it will likely temper the high growth rate of the previous decade. Building permits have fallen from 520 issued in FY 2007 to 270 issued in FY 2009 and have remained fairly steady in the past three years.

**Table 1: Currituck County Solid Waste Generation by Sector** shows estimates of waste generation. Since 2009 when we last conducted planning, C & D waste has gone down 15%, residential waste is down 5%, commercial waste is down 24% and yard waste is up 17% (Hurricane Irene occurred in August, 2011). See Chart in Appendix D.

**Table 2: Currituck County Solid Waste Generation by Sector**

<i>Waste Type</i>	<i>Percent</i>
Residential / municipal	66
Commercial	16
C & D	12
Yard waste	6

Appendix D also includes Table 3: Non-Residential Waste Generators which shows the types of wastes generated by commercial and institutional sectors and the industries located in the County.

## II. Local Waste Reduction Goals

Currituck County continues to experience permanent and seasonal fluctuations, although permanent growth is at a slower rate than the previous decade. The addition of expanded recycling programs and public education has helped reduce the peak of 1.69 tons per capita in 2004-2005 to .97 tons per capita in 2010-2011. **Table 2: Currituck County Waste Reduction Goals Permanent Population** demonstrates this point. The County includes **Table 2 (a) Currituck County Waste Reduction Goals Including Seasonal Population Increases** to show that the seasonal increase in population contributes significantly to the waste stream, and that it is making significant progress in waste reduction. Without prevention measures, waste generation increases are likely within this planning period. The county will make every attempt to achieve the rate of waste generation at a 30% reduction rate.

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<sup>2</sup> Currituck County Department of Travel and Tourism <http://www.co.currituck.nc.us/Travel-amp-Tourism.cfm>

**Table 2: Currituck County Waste Reduction Goals Permanent Population**

<i>Year</i>	<i>Permanent Population<sup>3</sup></i>	<i>Tons of waste disposed/ projection*</i>	<i>Tons per capita disposal rate</i>	<i>% Reduction achieved/ predicted</i>	<i>Tons to reduce</i>
1991/92 baseline	13,736	13,792	1.0 tons		
2004/2005	22,067	37,234	1.69 tons	-69%	
2007/08	23,731	36,496	1.54 tons	-54%	
2010/11	23,547	22,944	.97 tons	3%	
2015/16	23,606	20,100	.85 tons	15%	2,844
2021/22	23,567	16,496	.70 tons	30%	3,604

By including the **seasonal influx of visitors** in the calculation, 0.46 tons per capita were disposed in 2010-2011, as shown in **Table 2 (a)**. The seasonal population influx is reiterated: **50,000 to 60,000** visitors per WEEK from May through October have a significant impact on the County's tonnages per capita.

**Table 2 (a) Currituck County Waste Reduction Goals Including Seasonal Population Increases**

<i>Year</i>	<i>Permanent Population<sup>3</sup></i>	<i>* Seasonal influx (May – October)</i>	<i>Total AVERAGE population</i>	<i>Tons of waste disposed/ projection*</i>	<i>Tons averaged per capita disposal rate</i>	<i>% Reduction achieved/ predicted*</i>
2007/08	23,731	52,000/2	49,731	36,496	0.74 tons	26%
2010/11	23,547	52,000 / 2	49,547	22,944	0.46 tons	54%
2015/16	23,606	52,000 / 2	49,606	20,100	0.41 tons	59%
2021/22	23,567	52,000 / 2	49,567	16,496	0.33 tons	67%

### III. Meeting the Waste Reduction Goals

To reach these solid waste goals the County will:

- continue providing a convenient co-mingled recycling program at the convenience centers and curbside
- encourage all businesses to sign on with independent recycling providers
- continue to hold a HHW Collection Event in April of each year (Mainland and Outer Banks)

<sup>3</sup>

[http://www.osbm.state.nc.us/ncosbm/facts\\_and\\_figures/socioeconomic\\_data/population\\_estimates/demog/countytotals\\_2020\\_2029.html](http://www.osbm.state.nc.us/ncosbm/facts_and_figures/socioeconomic_data/population_estimates/demog/countytotals_2020_2029.html)

- work with Cooperative Extension Service and the Solid Waste Authority to provide comprehensive waste reduction and recycling education programs for businesses, institutions, and residents
- encourage independent residential waste haulers to provide curbside recycling for their residential customers
- apply for government grants to begin new programs or to improve existing ones
- ensure all public buildings have recycling containers for staff and visitor use
- modify the special event permit process to mandate recycling at venues and special events
- expand the electronics recycling program to reach more outlying areas
- implement a public education plan for landfill bans via County Newsletter and website
- begin development of a policy to encourage deconstruction and materials recycling in building projects
- continue working with NC DENR staff to evaluate and approve identified temporary storage sites for disaster debris. (4 of 6 have been conditionally approved.)
- develop a policy to reduce the toxicity of chemicals used by government agencies and facilities
- continue the beach access recycling program that was begun in June 2011 (captured 14.85 tons of recyclables in the first 11 weeks of the program)

Reduction method	Targeted materials
Source Reduction	Junk mail, yard waste, household goods, clothing, construction and demolition debris, pesticides, toxic cleaning solutions
Re-use	Textiles, household goods, and construction and demolition debris
Composting and mulching	Yard waste, storm debris and untreated wood
Special Wastes	Paint, pesticide containers, hazardous waste, construction and demolition debris, tires, white goods, yard waste
Recycling	Paper, telephone books, cardboard, newspaper, office paper, glass, plastic, aluminum cans, steel cans, scrap metals, dry-cell and lead acid batteries, CFL's & other fluorescent lamps, electronic waste, used oil, used antifreeze, oil filters, all plastic bottles, used cooking oil, oyster shells

#### IV. Planning Process and Public Participation

Currituck County wrote this plan with the help of the County Public Works Department, NC DENR, Albemarle Regional Solid Waste Management Authority (ARSWMA), Waste Management of Hampton Roads, NC Dept. of Commerce, and the "Going Green Initiative" team.

A public hearing was advertised and held at the Currituck County Board of Commissioners meeting on June 4, 2012. Prior to that meeting, the plan was available for public review for several weeks at the County Clerk's office and at the Public Works Department. The Currituck County Solid Waste Plan was accepted by resolution at the meeting of, June 4, 2012.

## **V. Solid Waste Programs**

### **A. Source Reduction**

The Currituck County Public Works Department disseminates information to educate the public on its recycling programs, using the recycling centers properly, as well as information as to how the citizenry can reduce receiving junk mail, sign up for subscriptions electronically rather than receiving a printed copy and encourages everyone to use reusable shopping bags instead of plastic bags. Articles are published in the County's quarterly and monthly e-newsletters and also on its website - <http://www.co.currituck.nc.us/Public-Works.cfm> .

The Albemarle Regional Solid Waste Management Authority (ARSWMA) recycling coordinator teaches programs on source reduction, backyard composting, and the reduction of toxicity as part of the household hazardous waste (HHW) program for students and adult groups.

NC Cooperative Extension staff has made it a goal to conduct outreach programs on recycling, energy savings, waste reduction, and other "green" issues. The agency has a "Going Green" steering committee that helps decide which issues to teach and promote. Several staff members are actively teaching waste reduction programs. This Agency hosted its first annual "Going Green" conference in 2009 that encouraged many waste reduction practices including reducing toxicity in household and garden products, reducing energy use, making smart shopping choices, recycling, and composting. The staff submits information to the county newsletter and local newspapers and publishes articles in its newsletters on junk mail reduction, green shopping, back yard composting, and other waste reduction measures. The Extension Service updates mailing lists annually to reduce waste. Most of their publications are delivered electronically.

To reduce the toxicity of waste, Currituck County participates in the NC Department of Agriculture pesticide collection program and the pesticide jug rinsing and recycling programs. More information is under Section V., I. Special Waste Management.

### **Intended Actions**

The Regional Authority staff and Cooperative Extension Agents plan to routinely teach environmental and conservation topic programs through 2022.

The county plans to actively encourage the residents and businesses to reduce waste by participating in the Environmental Initiative Committee, producing a recycling video and expanding its website and publishing more articles in the County's quarterly newsletter and monthly e-zine.

### **B. Collection of Solid Waste**

The Public Works Department oversees management of special wastes such as white goods, scrap metals, tires, and yard waste at the transfer station site and used motor oil, oil filters, antifreeze, lead-acid batteries, dry cell batteries, used cooking oil, oyster shell recycling and fluorescent lamp recycling at the convenient sites. Electronics are currently collected for recycling at three locations: Barco (central Mainland), Knotts Island and Corolla. All responsibilities fall under the jurisdiction of the County Commissioners.

The County provides customized waste disposal and recycling programs through the Waste Management contract for different parts of the County. Corolla and the surrounding area have high housing densities

and a greatly increased seasonal population, so curbside trash and recycling service is provided for the residential sector, with separate schedules for in-season and out-of-season service. The rest of Currituck is served by eight manned convenience centers.

Waste Management, Waste Industries, Bay Disposal and a number of smaller haulers provide commercial trash service and some residential routes on the mainland

The county made changes in 2009 in its recycling collections at the convenience sites. All recyclable materials except glass are collected in recycling compactors which are sent to TFC Recycling in Chesapeake, VA. This commingling and compacting all of the materials increases the efficiency of the program by sending heavier loads to market and making it easier on the residents who now collect all materials together. The glass, which is collected separately from the other recyclables, is sent to a glass market in Elizabeth City.

In January 2009 Currituck County began a new contract for waste collection and recycling services with Waste Management of Hampton Roads for a term of five (5) years. This contract will expire December 31, 2013, and the County will be soliciting RFP's as early as January 2013.

At its meeting of June 19, 2006, the Board of Commissioners adopted a policy regarding acceptance of yard waste at the eight solid waste convenient sites: A 5' x 8' (regular ½ ton pickup size bed) load will be deemed to be acceptable for receipt at the convenient site. A pickup truck OR a trailer load (5' x 8'), one or the other, not both, of vegetative debris shall be accepted at convenient sites from residents.

### **Intended Actions**

During 2008, Currituck County issued a request for proposals for waste collection and recycling services. Waste Management was selected the lowest responsible bidder and a new 5-year contract was awarded effective January 1, 2009, through December 31, 2013. This new contract directs recyclables to markets in the region in an effort to increase the efficiency and improve cost effectiveness of its recycling programs. The County intends to continue providing the current level of service for these areas through the contract term of 2013. It will add services as needed to meet demands and legislative changes through 2022.

### **C. Recycling and Reuse**

All manned convenience centers are for residential use only. The centers accept residential waste, recyclables, special wastes and yard waste. The recyclable materials collected include glass, newspaper, cardboard, telephone books, steel cans, all plastic bottles and jugs, aluminum cans, foil products, and scrap metal. The co-mix recycling is taken to TFC Recycling in Chesapeake, the glass products are taken to Elizabeth City Glass (ECG) in Elizabeth City, NC, and the white goods are processed on site and transported by United Salvage & Auto for recycling. Used motor oil, oil filters and antifreeze is collected at the manned recycling centers and picked up by FCC Environmental.

The County provides curbside collection on the Outer Banks from Pine Island to Corolla. All of these household recyclable materials are transported TFC Recycling in Chesapeake, VA, for processing and recycling.

Confidential papers are shredded on-site by SHRED-X of Manteo, NC, and the resulting material is recycled. County offices participate in single-stream recycling. Commercial hauling companies are contracted to manage the office recycling stream. The County sponsors a Shred-X event annually at the Senior Center where residents are invited to bring their confidential papers for shredding, recycling and to limit their exposure to identity theft.

Lead-acid batteries, dry cell batteries and fluorescent lamps are collected separately at the manned recycling centers and managed by the Public Works Department.

Used cooking oil is collected at all sites and picked up by Mahoney Environmental; Mahoney Environmental pays the County .02 - .03 cents per gallon for used cooking oil recovered.

Oyster shells are collected at two sites (Barco and Moyock). The shells are picked up by the Division of Marine Fisheries and reintroduced to sound waters to enhance oyster breeding programs.

Nearly all County office buildings have recycling carts and recycling dumpsters for the collection of single stream co-mingled recyclables. These are picked up by Waste Management and Bay Disposal for recycling. Recycling dry cell batteries, fluorescent lamps and ballast recycling is part of the County Public Works Department's maintenance program.

A private C & D recycling business, Soundside Recycling in Powells Point, is operating in the County, diverting hundreds of tons of C & D per year, and producing mulch with some of the wood waste. In FY 2011, 1758 tons of commercially generated C&D waste was taken there by private haulers. Some of the lumber and land-clearing materials are ground into mulch, some organics are composted, and other materials are sorted and sold to a variety of recycling markets. One of their main recycling markets from this facility reports a recycling recovery rate of 87 – 94% for this business' "fines" or small leftover waste. Some assorted fines and other materials such as carpet and fiberglass must still be landfilled at the ECE Landfill. Records indicate Soundside Recycling hauled approximately 129 tons to ECE landfill.

NC Cooperative Extension and the Regional Authority conduct educational programs on reducing, reusing, and recycling (3 R's) with school children and adult groups. These are effective, but only small numbers of children in the schools are reached each year.

Albemarle Regional Solid Waste Management Authority sponsored two paint swaps in Currituck County in the past; ARSWMA discontinued this service in 2009. The County began an annual HHW collection event in 2009 and will continue to provide an annual HHW Collection Event in April of each year as long as funding is available to do so.

The County operates a swap shop for household goods at the Shawboro convenience center that diverts several tons of materials from the waste stream each year.

The Salvation Army maintains a collection box for useful household items and clothes at several convenience centers. Thrift shops are located in Grandy, Moyock, Currituck, Powells Point and Point Harbor, and a flea market operates in Moyock. Churches and some of the Extension clubs sponsor yard sales or clothing drives.

Radio Shack in Grandy accepts rechargeable batteries and used cell-phone, pager and digital camera batteries for recycling.

All unwanted County office equipment, miscellaneous equipment, and vehicles, are advertised to the departments, and then offered to fire departments. All remaining equipment is declared surplus and auctioned to the public or delivered to the electronics recycling center in Barco. Other County efforts include using the backs of used paper for note pads and shop rags and mops that are reused in the county garage. These programs save the departments money. These also save the County tons of waste.

In October, 2004, the County provided 96-gallon brightly colored recycling containers to the residents served by curbside pickup in Corolla (4,000 containers) to enhance recycling by permanent residents and visitors during tourist season.

All Currituck County Schools now have single stream, co-mingled recycling programs contracted through Waste Management.

A DPPEA grant was awarded to Currituck to build a storage building for staging electronic waste at the Barco recycling center for disposal by an electronics recycler. The facility opened December 1, 2009. AmericaGreenz is the electronics recycler that was awarded the bid for transporting collected electronics waste to their recycling facility in Greensboro. The statistics for electronics recycling are included in the County's Annual Solid Waste Management Report each year beginning with the report due August, 2010.

A DPPEA grant was awarded to Currituck for a Par-Kan Dump Cart with a Bayne cart lifter and forty 96-gallon recycling containers for its beach accesses on the Outer Banks. This program was implemented in June 2011 and in the first 11 weeks of its operation, captured 14.85 tons of recyclable material from beach-going visitors.

The Sheriff's Office collects expired and unused prescription medication the last Friday of each month, diverting those items from the waste stream.

### **Intended Actions**

Effective January 1, 2009, the solid waste and recycling contract was awarded to Waste Management for five years; it will continually be reviewed to see if more, or different, recyclables could be added to the program.

The County plans to extend the block wall along the entire length of the concrete pad for white goods collection by 2014.

NC Cooperative Extension and the Regional Authority will continue with all of their existing recycling and reuse programs and expand them as much as possible through 2022. They will work intensively with residents and schools through 2022.

The County will continue with all in-house programs and will continue to reuse surplus equipment through 2022.

The County will continue to provide educational information and market identification to commercial and retail businesses in the area in order for those businesses to fully participate in the recycling of usable materials (cardboard, plastics, glass and paper.)

### **D. Composting and Mulching**

The county contracts with a Bowen and Company to provide grinding service, and the chipped pieces are used as fuel by Weyerhaeuser Corporation.

NC Cooperative Extension and the Regional Authority teach backyard composting for some school classes and civic groups and perform demonstrations at public events, including the Currituck Garden Show. Additional information is published in local newsletters and papers.

### **Intended Actions**

Back yard composting will continue to be encouraged by all of the groups now participating through the year 2022.

The county intends to continue with the chipping program through 2022.

#### **E. Incineration with Energy Recovery**

No waste incinerators are available in this region, so that is not an option.

#### **F. Incineration without Energy Recovery**

No waste incinerators are available in this region, so that is not an option.

#### **G. Solid Waste Sent Out Of Geographic Area**

The county's transfer station is operated by Bowen and Company under a contract with Republic Services of North Carolina. This transfer station accepts all municipal (MSW), commercial, construction and demolition (C & D), and industrial waste from the county plus a small amount of solid waste from Dare County and Camden County. The East Carolina Environmental (ECE) Landfill in Bertie County accepts all of the waste transferred out.

As a member of Albemarle Regional Solid Waste Management Authority the county signed a new 26-year disposal contract in May 2009 with Republic Services of North Carolina through the year 2035 to send waste to the ECE Landfill. The counties face high transportation costs related to disposal and relatively high tipping fees. Starting July 2009, the counties will be paying a fuel surcharge for hauling when diesel fuel rises above \$1.26/ gallon. The Gate Rate for waste delivered to the landfill is \$40.15 before landfill taxes and fees, plus \$20.85 for transportation (excluding fuel surcharge fees). The County will pay to ECE a minimum of \$63.75 per ton plus applicable fuel surcharges for all waste delivered to the Currituck Transfer Station for transport to ECE Landfill. That minimum fee includes the charge for managing the transfer station, the gate rate, and the taxes and fees.

#### **Intended Actions**

Currituck County intends to continue with this arrangement of transportation through 2035.

#### **H. Solid Waste Disposal**

All solid waste collected at the transfer station is sent to the ECE Landfill in Bertie County.

Some C & D debris is hauled privately to Soundside Recycling in the southern part of the county. There it is processed, with a majority of it reused or recycled.

#### **Intended Actions**

Currituck County intends to continue with the arrangement with ECE Landfill through 2035. Solid waste fees are evaluated and adjusted annually or as needed. Current tipping fees are \$71 per ton for refuse that originates in Currituck County and \$81 per ton for refuse that originates outside of Currituck County.

#### **I. Special Waste Management**

Construction and demolition (C & D) debris has slowed a bit over the past few years. Small amounts of residential C & D (1/2 pickup truck load) may be brought to the convenience centers and put into the bulky items containers. Larger amounts and commercially generated C & D must be hauled to the

transfer station. By contractual agreement, this waste is transferred to the private (ECE) landfill that serves the region. The county has no current programs for C & D recycling or reduction, and would like to try to address that issue. One privately run C & D recycling business is now operating within the County, and more information about it is in Section V. C. Recycling and Reuse.

Land clearing and inert debris (LCID) is collected at the transfer station. Concrete is used as fill for roadbeds in county projects. Stumps and logs are ground and hauled off site by a contractor and hauled away to be used as fuel at Weyerhaeuser and other mulching applications. Some privately owned LCID sites operate within the County, and provide an avenue for disposal for some developers and builders in Currituck and Dare Counties.

Lead acid batteries are accepted at all convenience centers and recycled.

Dry cell batteries are collected at the recycling centers. These are collected in pre-paid freight boxes in the site attendants' offices and when filled are shipped to Southeastern Recycling.

Compact fluorescent lamps (CFL's) and 4' fluorescent lamps are collected at the recycling centers. When the containers are filled, County personnel pick them up and ship them to Veolia Recycling.

Major appliances (white goods) and residentially generated scrap metals are collected at the convenience centers and are taken to the County transfer station. U.S. Auto & Salvage removes Freon at that site and transfers the materials to markets. Scrap metal from commercial activity are collected at the white goods collection site at the transfer station property.

Residents in the Corolla area may place white goods, tires, yard waste (bundled) and bulky items at the curb on their solid waste collection day and the contractor collects them. This is a very well accepted program that the County will not change in the foreseeable future.

As of 2011, used cooking oil recycling containers are at all eight recycling centers courtesy of Mahoney Environmental. Mahoney will pump out the cooking oil and pay the county .02 to .03 cents per gallon.

Oyster Shell recycling barrels are at two of the County's busiest recycling centers, courtesy of the NC Division of Marine Fisheries.

Corolla residents may now dispose of used batteries, fluorescent bulbs and electronics at the Corolla Library. County personnel retrieve the items from the Corolla Library and prepare them for recycling.

The County may wish to begin a mobile home recycling program by 2014 if funding to begin the program made is available from the state.

Residentially generated small tires are accepted at convenience centers. Commercially generated and larger tires are sent to the transfer station site. All tires are stored on site in trailers until Waste Management transports them to their Hampton, Virginia facility. This program is convenient for the County to operate, and convenient to tire generators.

The County collects waste oil, oil filters and antifreeze at all of the convenience centers and the transfer station. This provides an adequate level of service for the do-it-yourselfers in the area.

The County has no household hazardous waste collection program of its own, however, in 2009 it did contract with an environmental firm and held a household hazardous waste collection day on December 5, 2009, in Corolla (Outer Banks) and in Currituck (Mainland). Subsequently, it has held HHW collection events in April of 2010, 2011 and 2012 and intends to continue this service once per year in April through 2022.

The County participates in a NC Department of Agriculture (NCDA) pesticide collection program every two to three years. This is a program where NCDA hosts one-day collections for disposing of pesticides, herbicides and similar agricultural and horticultural products. All residents and producers may participate in this valuable and free-to-the-user service, and it works very well for the County.

NC Cooperative Extension continually works to improve its pesticide container rinsing and recycling program, to make it more widely used by producers. The County regularly receives Pesticide Environmental Trust Fund grants from NCDA to aid in the program, and provides education at the pesticide certification meetings, farm visits, and agricultural events. This provides a valuable service to the horticultural and farming community, and will be continued with improvements as made feasible through grants.

Electronics Waste: The County applied for and received a DPPEA grant to begin an electronics recycling program at its Barco recycling center. Electronic waste is collected in a metal storage building until it is picked up by AmericaGreenz, an electronic waste recycler, based in Greensboro. The program opened for operation on December 1, 2009. The program allows for the collection of computers, peripherals, televisions, electronic games, fax machines, printers, copiers and other electronic devices. Tonnage figures on electronic waste collected and recycled through AmericaGreenz will be recorded separately just as other special wastes are recorded separately.

Knotts Island residents now have an electronics recycling 30-yard walk in container. Waste Management removes the container when full to the Barco recycling site where AmericaGreenz picks them up. Corolla residents take their electronics for recycling to the Corolla Library where County staff picks them up and brings those items to the Barco recycling center.

### **Intended Actions**

C & D has been a large portion of the county's waste. The county plans to explore C & D waste reduction and recycling options. If feasible, it would like to apply for financial assistance from DENR by 2014 to develop a program to reduce this waste stream.

The County held its first County sponsored HHW collection day on December 5, 2009, and has continued to hold an annual HHW collection event each April since and intends to continue an annual HHW Collection program through 2022.

Cooperative Extension Service is planning to increase participation in the County's pesticide container rinsing and recycling program through the year 2022, making improvements as grants are made available.

Mobile homes may become one of those added programs if funding for a recycling program is available from the state in connection with HB 1134 by 2014. The Bill is titled: 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.

This agency will also continue to work with NCDA to hold pesticide collections every two or three years through 2022.

The county plans to frequently evaluate its special waste programs and seek less expensive and more efficient means of marketing, disposing, and managing the materials through the year 2022.

## **J. Disaster Debris Management**

Each year, the County Public Works director solicits rate quotes (rates per hour for equipment and equipment operators) and documentation from contractors. Also included is a list of contractor personnel. The director keeps this information on file so it is readily available if a major event occurs. The contractor personnel list is used to prepare emergency entry permits as required.

The County has access to several sites where debris can be temporarily stored until it is possible to move it to the transfer station for disposal. Included are: 10 acres in Corolla (Corolla Bay); a site on Knotts Island (NC DOT); 24 acres in Harbinger (Sound Park), approximately 10 acres in Powells Point (Rural Center), 10 acres in Moyock (Winslow Tract, future Moyock Sewer Plant) and 5 acres at Carova Beach (county-owned land.) Acreage at the airport complex has been pre-approved by DENR as a TDSR site for storm debris storage and reduction. The preferred method of disposal for hurricane debris (brush) is to use a grinder and the resulting mulch is hauled off for use as fuel for Weyerhaeuser and projects requiring mulch.

### **Intended actions**

The County public works department plans to continue to follow storm waste management practices that will facilitate reimbursement by FEMA, DENR, and other agencies through 2022.

The County issued RFP's for disaster debris management in 2010 and the recommendation of award for pre-positioned contracts was approved by the Board of Commissioners: Unified Recovery for disaster debris management and Beck Services for monitoring services.

The County hopes to implement a method to manage hazardous wastes that are generated by storms by 2013. The County will work with FEMA, NCEM, DENR, and private contractors to properly separate and dispose of hazardous wastes.

## **VI. Education**

The Regional Authority recycling coordinator conducts educational programs in the county. The coordinator teaches at public events, at schools, and with civic groups. The topics taught include the County recycling programs, source reduction, reuse, backyard composting, and household hazardous waste. The coordinator submits articles on these topics to Extension newsletters and local newspapers.

NC Cooperative Extension Homemaker Educational Issue coordinators share information with the membership on 'Preserving and Conserving the Environment'. Information is shared with 4-H and other clubs on household hazardous waste, recycling, reducing, and reusing. Extension has articles published in the local newspapers as well as the Extension newsletters, and distributes recycling and solid waste brochures.

Currituck County recycling and solid waste brochures are distributed to civic groups, property owners' associations, at the convenience centers, schools, the library and other County offices. The County placed covered bulletin boards at all convenience sites for public education and notification. This information is also on the county web site. Recycling articles are published in the County's quarterly newsletter, monthly e-zine and signage is posted at all recycling centers.

## **Intended Actions**

The Cooperative Extension agents and the Regional Authority coordinator will continue to teach these programs for youth at schools and do outreach into the community through 2022. They will develop new programs whenever possible. They will conduct more programs on Household Hazardous Waste to teach waste prevention and safe storage of materials and to increase participation in the upcoming HHW collection events.

## **VII. Illegal Disposal and Litter Prevention**

The County has a comprehensive solid waste ordinance that regulates the storage, collection, and disposal of solid waste. The enforcing officer is the director of solid waste who gets assistance from Zoning Enforcement and the Sheriff's office. Civil and criminal penalties are included in the enforcement section of the ordinance.

Some rural residents burn yard waste where door-to-door pickup is not available. Illegal burning violations are enforced by NC Forestry Department. To prevent illegal burning, the fire marshal posts information on the County web site and on the local access cable channel.

The County has a six-foot chain link fence around the transfer station to prevent the spread of litter.

Currituck County uses prison labor and individuals assigned by the Courts to perform community service to clean up illegal tire and white good dumps as well as pickup litter around the transfer station and roadsides.

County personnel and its educators encourage participation in volunteer events and programs such as Big Sweep, Beach Sweep, and Adopt-A-Highway. Department of Transportation provides bags and collects the trash when needed for each of these events, and provides free dumping of this cleanup trash. Community service workers and prisoners are used for litter cleanups. Department of Corrections inmates and County inmates under the County jail reparation program are used to clean up the landfill, park, airport, and beaches.

## **Intended Actions**

All educational efforts will continue, with new materials added as needed through 2022.

The volunteer groups, community service workers, and prisoners will continue participate in litter cleanups through 2022.

The County posts illegal burning signs on the bulletin boards at the convenience centers and will post information on the County web site and on the local access cable channel, through the year 2022.

## **VIII. Purchase of Recycled Materials and Products**

The County has an informal "buy recycled" policy and will purchase recycled materials if they are not cost prohibitive. Some of the items purchased include copy paper, newsletter paper, bathroom tissues, recycling brochures, file storage boxes, paper cups, etc.

## **Intended Actions**

The County will continue buying recycled content material when not cost prohibitive.

## IX. Solid Waste Costs and Financing Methods

Currituck County is a member of Albemarle Regional Solid Waste management Authority (ARSWMA). ARSWMA has an agreement with Republic Services of NC, owners of East Carolina Environmental, Inc. in which the county must deliver all municipal waste collected except recyclable materials and some special wastes to East Carolina Landfill (ECE). A tipping fee is paid for every ton of solid waste disposed in the East Carolina Landfill. This fee varies depending on which transfer station receives the solid waste. The rate that Currituck County pays for waste delivered to the Currituck Transfer Station as of July 1, 2011 is of \$63.75 per ton plus fuel surcharge fees. The fee was \$42.90/ ton (including fees and taxes) for waste delivered directly to the ECE Landfill.

As a member of Albemarle Regional Solid Waste Management Authority the county signed a new 26-year disposal contract in May 2009 with Republic Services of North Carolina to send waste to the ECE Landfill through the year 2035. The gate rate for waste delivered to the ECE Landfill is (as of May) \$40.15/ ton plus \$2.75/ ton in state taxes and landfill fees bringing it to \$42.90 with those fees. Currituck County pays to ECE Landfill \$20.85 per ton for transportation and transfer station management. Therefore, the county is now paying \$63.75 per ton plus fuel surcharge fees for all waste delivered to the Currituck Transfer Station for transport to ECE Landfill. Effective July 2009 the counties pay a fuel surcharge on each ton of waste for hauling whenever diesel fuel rises above \$1.26/ gallon. This will cause the total tipping fee to fluctuate monthly.

The county generates the revenues needed to pay for disposal, collection, recycling, and managing all solid waste programs are generated through the tax base, tipping fees, White Goods and Tire Tax revenues and grants, and user fees. Homes in the areas serviced by convenience centers pay a user fee of \$114.00 per household per year for recycling and solid waste disposal. Homes receiving curbside service in the Pine Island to Corolla area pay a user fee of \$250 per household per year.

The county currently charges a tipping fee of \$71.00 per ton for all wastes classified as commercial, industrial, C & D, yard waste and residential. Waste generated outside the county is charged a tipping fee of \$81.00 per ton. Residents hauling their own yard waste and C & D to the transfer station (solid waste facility at the closed landfill site) are not charged for the first 500 pounds of each. No charges are levied for some of the special wastes, including tires, white goods, scrap metal, waste oil, antifreeze, batteries, compact fluorescent lamps and electronic waste. Electronic waste revenues and expenses are recorded in separate general ledger line items, one each for revenues and expenditures as white goods and tires are currently.

**Table 3: Fiscal Year 2010-2011 Full Cost Analysis** shows the cost per ton and cost per household to manage various sectors of waste in the county. This data was compiled from county budget sheets, ARSWMA scale reports, and ECE Landfill invoices. The total tons of waste generated by the county include tons that were landfilled plus tons that were mulched or recycled. The 'total program costs' figure is divided by all tons generated to get the total cost per ton.

### Currituck County Calculations FY 2010-2011

Disposed tons*	22,944 tons
Recycled tons	2,186 tons
Mulched tons	1,405 tons
Total tons generated	26,535 tons

**Table 3: Fiscal Year 2010-2011 Full Cost Analysis**

<b>Currituck County</b>	<b>Waste Collection</b>	<b>Waste Disposal</b>	<b>Reduce, Reuse, Recycle</b>	<b>Mulch<sup>4</sup></b>	<b>Total Program Cost</b>
Program cost	\$1,658,116	\$1,600,575	<b>\$361,734</b>	<b>\$181,403</b>	\$3,801,828
Cost per household (14,362 households)	\$115	\$111	\$25	\$13	\$ 264
Cost per ton	\$69	\$70	\$165	\$129	\$159

**X. Facilities and Resources Available Through Private Enterprise**

Waste Collection, Hauling, Recycling

Waste Industries, Elizabeth City  
 GDS, Washington, NC  
 Tidewater Fibre, Chesapeake, VA  
 Waste Management of Hampton Roads  
 Bay Disposal, Inc. d/b/a Outer Banks Hauling

Recycling and Special Wastes

Tri-State Metals, Alexander, NC  
 USA Recycling, Roanoke Rapids, NC  
 East Carolina Vocational Center, Greenville, NC  
 US Filter, Chesapeake, VA  
 United Salvage & Auto (scrap metal), 11476 Hwy 903, Halifax, NC 27839  
 Waste Management of Hampton Roads  
 Safety Kleen, Chesapeake, VA  
 Butler Paper Company, Suffolk VA  
 Tidewater Fibre, Chesapeake, VA  
 Central Carolina Tire, Sanford, NC  
 Futura (plastics, cardboard, paper), 1200 George Wood Drive, Elizabeth City NC 27909  
 ECG (glass), 104 Corporate Drive, Elizabeth City, NC 27909  
 Southeast Recycling Technologies of Tennessee  
 Unified Recovery Group, Albemarle NC (Debris Removal)  
 Bowen and Company (Debris Grinding)  
 Clean Harbors, Reidsville, NC (Hazardous Waste)  
 ECHOFLO, Greensboro, NC (Hazardous Waste)

<sup>4</sup> The County experienced Hurricane Irene in August 2011 which produced an abundance of vegetative debris.

**Contacts:**

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Mr. Ralph Hollowell, Executive Director  
Ms. Anne Blindt, Recycling Coordinator  
Albemarle Regional Solid Waste Management Authority  
PO Box 189  
Elizabeth City, NC 27907-0189  
(252) 338-4490; (252) 338-4458  
fax: (252) 337-7921

CURRITUCK COUNTY  
TEN YEAR SOLID WASTE MANAGEMENT PLAN AMENDMENT  
ELECTRONICS RECYCLING

**1. Information on the existing electronics programs within the jurisdiction of Currituck County.** The Currituck County Solid Waste and Recycling Department (the Department) has operated a TV and electronics collection and recycling program since December 1, 2009, and plans to continue operating it in much the same way for the foreseeable future. The county's program accepts materials from businesses, institutions, schools, local, state, and federal government offices, and residents.

The Department established a collection point at a centrally located recycling center (Barco, North Carolina), by installing a metal building with a roll-up door on one end. Electronics are collected inside the building on pallets.

The Department accepts all computers, peripherals, miscellaneous electronics, TV's, faxes, scanners, cell phones, electronic game components, UPS backup units and radio equipment to name some of the items accepted under the program.

The collected electronics are stored in the metal building until it becomes filled, then our recycling vendor – AmericaGreenz – is called to collect the material which occurs approximately every six weeks.

**2. Information on Currituck County public awareness and education programs.**

The County promotes electronics recycling at local events, during visits to civic groups, conducts school programs and includes recycling information in its quarterly newsletter Focus on Currituck. The Department's web page has been updated with the latest electronics and TV recycling information. The county will publish and distribute electronics-specific recycling information and will update its printed recycling program materials to include electronics recycling.

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

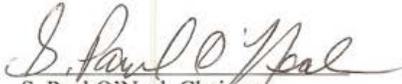
The county's fully state-certified vendor, AmericaGreenz, sends the county the appropriate data with the weights of all materials broken down into several categories plus the numbers of TV's. The county will include all of this data in the annual Solid Waste and Materials Management Report due on Sept. 1 each year and any other state-required Electronics Report.

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

At this time, there are no incorporated areas within the County of Currituck. Should area Counties and municipalities wish to combine efforts to secure better pricing on handling the electronics, Currituck County would be amenable to discussing those options with area jurisdictions for the benefit of all involved.

**5. Information on how Currituck County will use state funds.** Currituck County has established budget lines for Electronics Program Revenues and for Electronics Program

Expenditures. The county will use the state revenues towards educational efforts and for expanding its electronics recycling program to other areas in the County. The county has a revenue-neutral agreement with the market at this time, but plans to apply any future revenues to offset the cost of providing these services.

A handwritten signature in cursive script, reading "S. Paul O'Neal".

S. Paul O'Neal, Chairman  
Board of Commissioners

**Appendix A**  
**Resolution from County Board of Commissioners**

RESOLUTION ACCEPTING AND ENDORSING THE SOLID WASTE MANAGEMENT PLAN OF 2012 -  
2022 FOR CURRITUCK COUNTY

WHEREAS, it is a priority of this community to protect human health and the environment through safe and effective management of municipal solid waste;

WHEREAS, the reduction of the amount and toxicity of the local waste stream is a goal of this community;

WHEREAS, equitable and efficient delivery of solid waste management services is an essential characteristic of the local solid waste management system;

WHEREAS, it is a goal of the community to maintain and improve its physical appearance and to reduce the adverse effects of illegal disposal and littering;

WHEREAS, Currituck County recognizes its role in the encouragement of recycling markets by purchasing recycle products;

WHEREAS, involvement and education of the citizenry is critical to the establishment of an effective local solid waste program;

WHEREAS, the State of North Carolina has placed planning responsibility on local government for the management of solid waste;

WHEREAS, NC General Statute 130A-309.09A(b) requires each unit of local government, either individually or in cooperation with other units of local government, to update the Ten Year Comprehensive Solid Waste Management Plan at least every three years;

WHEREAS, the Currituck County Public Works Department has undertaken and completed a long-range planning effort to evaluate the appropriate technologies and strategies available to manage solid waste effectively;

NOW, THEREFORE, BE IT RESOLVED BY THE CURRITUCK COUNTY BOARD OF COMMISSIONERS:

That Currituck County's 2012 - 2022 Ten Year Comprehensive Solid Waste Management Plan is accepted and endorsed and placed on file with Clerk to the Board on this \_\_\_\_ day of \_\_\_\_\_, 2012.

CURRITUCK COUNTY BOARD OF COMMISSISONERS

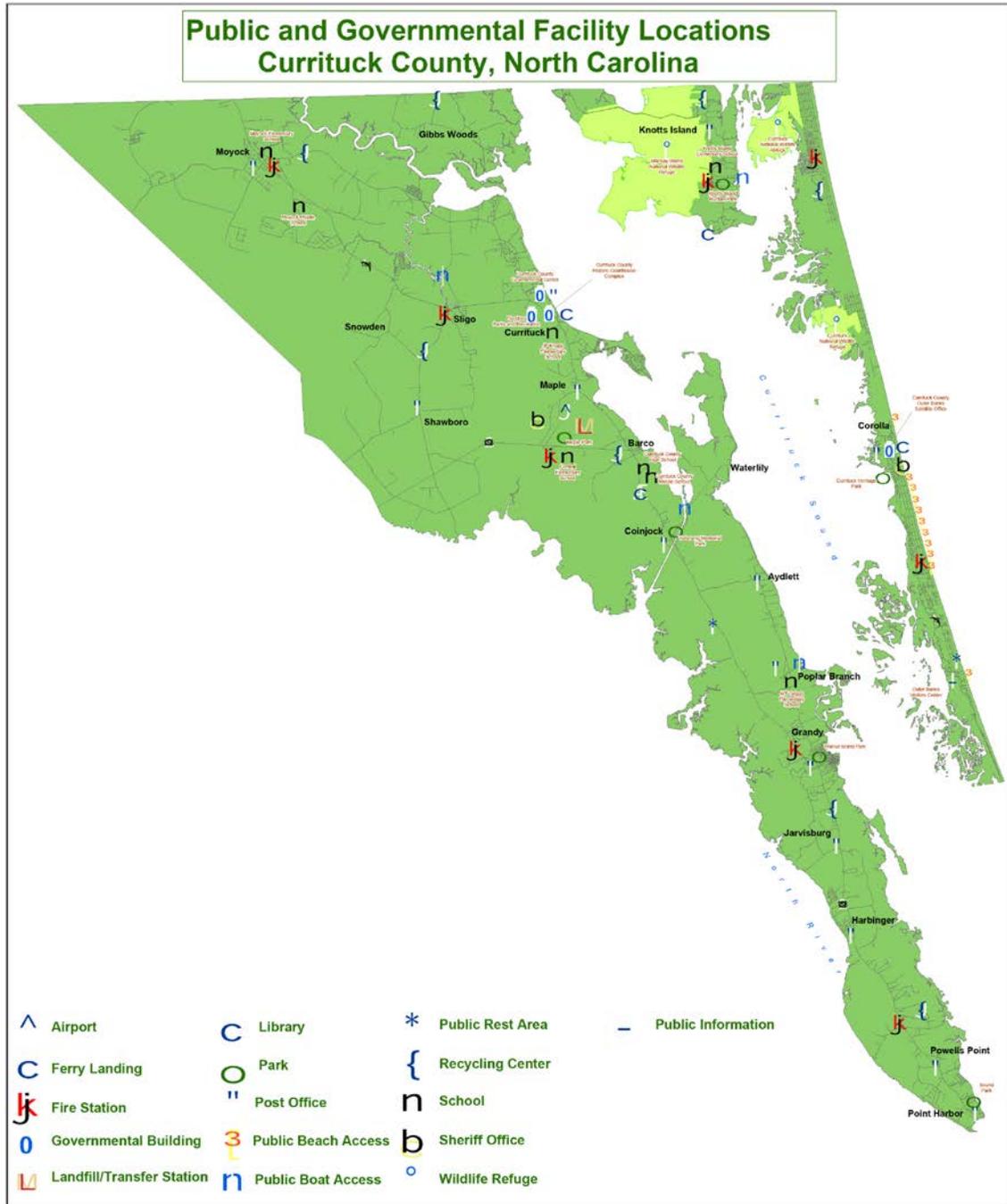
By: \_\_\_\_\_  
Chairman of the Board

ATTEST:

\_\_\_\_\_

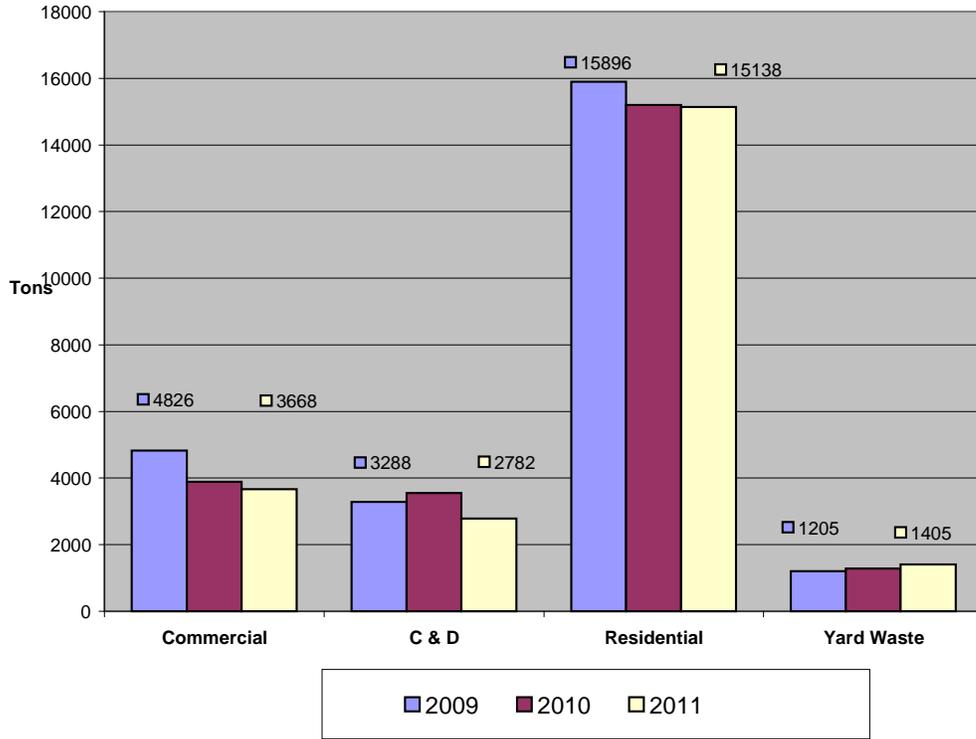
**Appendix B**  
**Copy of notice for public meeting.**

## Appendix C Map of Facilities and Disposal Sites



## Appendix D

### Three Year Trend in Waste Composition



<b>Currituck County Three Fiscal Year Trend in Waste Composition</b>				
	Commercial	C & D	Residential	Yard Waste
2009	4826	3288	15896	1205
2010	3883	3550	15198	1282
2011	3668	2782	15138	1405
Percentage Change	<b>-24%</b>	<b>-15%</b>	<b>-5%</b>	<b>17%</b>

## Appendix D Non-Residential Waste Generators

**Table 3: Non-Residential Waste Generators**

<i>Major Categories of Generators</i>	<i>Waste</i>
Construction and Demolition	Stumps, cement, brick, wood, untreated and treated, composite materials, plastics, pallets, glass, metal, gypsum board, carpet, textiles, shingles, cardboard, paper, fiberglass, paint
Dept. of Corrections	Paper, cardboard, food waste, plastics, pallets, glass, metal, textiles, wood
Government and Schools	Paper, cardboard, food waste, plastics, pallets, glass, metal, wood
Misc. Retail stores, Restaurants, Resorts, Motels	Paper, cardboard, food waste, plastics, pallets, glass, metal, wood, textiles
Agriculture	Plastics, cardboard, organic wastes, pallets, metals, wood, treated and untreated, paper
<i>Business</i>	<i>Primary SIC Product Category</i>
Harrellsville Metal Buildings	3441 Fabricated Structural Steel
Stateline Builders Inc	3448 Custom Wood Buildings & Components
U S Fiberglass Products Inc	3949 Sporting & Athletic Goods, NEC
Prospect Generation Systems	2542 Partitions & Fixtures, Except Wood
Tri-H Molding Co Inc	2431 Millwork
Bruce & Co Fiberglass Works	Fiberglass spas & hot tubs
Canvas Coverings Inc	2394 Canvas Products
Graphic Attack Inc	2396 Automotive Trimmings, Apparel Findings, Related Products
Custom Counters Cabinet Co	2434 Wood Kitchen Cabinets
Hunter, A B Co	2499 Wood Products, NEC
Food Lion	5411 cardboard, food waste,
Sound Feet Shoes	5661 Cardboard
Ambrose Furniture	5700 Cardboard, wood waste
Olds, Coinjock, Currituck Automotive	7500, 5531 Cardboard, used fluids, scrap metal
Dollar General, Family Dollar Stores	5990 Retail NEC Cardboard, pallets

**Appendix E**  
**WASTE REDUCTION GOAL SHEET**  
**NC LOCAL GOVERNMENT TEN YEAR**  
**SOLID WASTE MANAGEMENT PLAN 2012-2022**  
**Based on Permanent Population**

Local government name Currituck County  
 Previously established FY 2015/ 2016 waste reduction goal -51%  
 After considering your government's current and projected solid waste activities, resources, population and economic growth will the FY 2015/2016 waste reduction goal change? Yes X No \_\_\_\_\_  
 If Yes, what is the revised FY 2014/ 2015 waste reduction goal? 15%  
 Establish a new FY 2021/ 2022 waste reduction goal 30%

**WASTE REDUCTION CALCULATIONS**

To provide 10 years of solid waste management planning, as per General Statute 130A-309.09A(b), waste reduction goals are up-dated. Use the following chart to determine the tonnages needed to manage without landfilling, to meet waste reduction goals for FY 2014/ 2015 and FY 2021/ 2022. These projections do not include seasonal population increases (45,000 to 50,000 visitors per WEEK from May to October.

CALCULATIONS	FY 2014/ 2015	FY 2021/ 2022
1. Baseline year per capita disposal rate (FY 1991-1992 )	1.0	1.0
2. Percent waste reduction goal	15%	30%
3. Targeted per capita disposal rate (Subtract line 2 from 1.0 and multiply result by line 1)	.85	.70
4. Estimated population for July 2015 and July 2022 (Available at <a href="http://www.osbm.state.nc.us/osbm/index.html">http://www.osbm.state.nc.us/osbm/index.html</a> )	23,606	23,567
5. Projected tonnage for disposal at baseline disposal rate (Multiply line 1 by line 4)	23,606	23,567
6. Targeted annual tonnage for disposal (Multiply line 3 by line 4)	20,065	16,497
7. Targeted annual tonnage to reduce (Subtract line 6 from line 5)	3,541	7,070
<b>Waste Reduction Plan</b> - Given the targeted annual tonnage amount to be reduced, explain how you plan to reach the goal:		<b>TONS</b>
	Recycling;	3,000
	Source reduction:	300
	Composting:	241

## Appendix F Planning Elements

### NC Local Government 10 Year Solid Waste Management Plan Planning years 2012 - 2022 Disaster Response

Completed Actions	Incomplete Actions		New / Revised Actions		
Key Actions	Key Actions	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
<p>Solicit bids from contractors for storm debris management annually</p> <p>Implement storm waste practices to facilitate reimbursement by FEMA and other agencies</p> <p>Issued RFP for pre-positioned disaster debris removal and monitoring contracts; bid out</p>	<p>Implement a method to manage, separate, and dispose of hazardous wastes generated by storms</p> <p>– UNIFIED RECOVERY awarded pre-positioned contract</p>		<p>Implement storm waste practices to facilitate reimbursement by FEMA and other agencies</p> <p>Implement a method to manage hazardous wastes that are generated by storms. Work with FEMA, NCDA, DENR, and private contractors to separate and dispose of hazardous wastes</p> <p>Identify TDSRs, work with NC DENR to permit and approve for use as needed 4 of 6 conditionally approved</p>	<p>Through 2022</p> <p>By 2013</p> <p>2011</p>	

**Appendix F  
Planning Elements**

**NC Local Government 10 Year Solid Waste Management Plan  
Planning years 2012 - 2022  
Purchasing Recycled Products**

Completed Actions	Incomplete Actions		New / Revised Actions		
Key Actions	Key Actions	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
<p>Currituck County has a policy to buy recycled whenever it is cost effective</p> <p>Extension Service and Authority promote buying recycled products</p>			<p>Currituck County has a policy to buy recycled whenever it is cost effective, and will continue to purchase more recycled materials</p> <p>Purchase items with as little packaging as possible or with recyclable packaging</p> <p>Purchase least toxic cleaning products for county facilities</p>	<p>Through 2022</p> <p>Through 2022</p> <p>Through 2022</p>	

## Appendix F Planning Elements

### NC Local Government 10 Year Solid Waste Management Plan Planning years 2012 - 2022 Illegal Disposal / Litter

Completed Actions	Incomplete Actions		New / Revised Actions		
Key Actions	Key Actions	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
<p>Work with county and state agencies and local law enforcement to control illegal dumping, burning, and littering</p> <p>Continue to encourage volunteer participation in Big Sweep, Adopt - A - Highway, Beach Sweep, and other programs; and use inmates to clean litter on roadsides</p> <p>Currituck County Board of Commissioners adopted a portion of Hwy 158. The BOC and county employees have regular litter sweeps of the adopted roadway</p> <p>Continue to coordinate with Sheriff's office and Pasquotank Correctional Facility for roadside cleanup by inmate crews</p> <p>Continue enforcing the Solid Waste Ordinance</p>			<p>Continue all educational efforts</p> <p>The volunteer groups, community service workers, and prisoners will continue participate in litter cleanups</p> <p>The County posts illegal burning signs at the convenience centers and will post information on the County web site and on the local access cable channel</p> <p>Continue upkeep on Adopt-a-Highway portion of 158 adopted by the Board of Commissioners with regularly scheduled litter pickups by BOC &amp; County employees.</p>	<p>Through 2022</p> <p>Through 2022</p> <p>Through 2022</p> <p>Through 2022</p>	<p>5</p> <p>10</p> <p>5</p>

## Appendix F Planning Elements

### NC Local Government 10 Year Solid Waste Management Plan Planning years 2012 - 2022 Special Waste

Completed Actions	Incomplete Actions		New / Revised Actions		
Key Actions	Complete	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
County to explore methods of C & D waste reduction		Private C&D Salvage company in the county receives salvageable C&D material	Explore C & D waste reduction and recycling options, and try to attain a grant if possible	2016	1000
Increase participation in the pesticide container rinsing and recycling program			Increase participation in pesticide container rinsing and recycling program	Through 2022	2
Extension to continue to work with NCDA to hold pesticide collections			Consider abandoned mobile homes recycling	2014	25
White Goods – 100x150’ cement pad installed at transfer station 2008	2008		Evaluate special waste programs and seek less expensive and more efficient means of marketing, disposing, and managing the materials	Through 2022	100
Fluorescent bulbs, CFL’s, dry-cell batteries are accepted at all 8 recycling centers	2008		Host annual HHW event for residents	2009 through 2022	3
Used oil, oil filters and Anti-freeze are collected at 8 recycling centers and disposed of through FCC Environmental	2008		Research end markets for shingle recycling; apply for grant to establish a shingle recycling program; obtain permits to operate program	2015	100
Electronics Recycling Collection Center at Barco Site opened Dec 2009	2009		Used gasoline collection & recycling program	2014	

Used cooking oil collection containers placed at all convenience sites	2011				
Sheriff's office accepts unused and outdated prescription medication the last Friday of each month	2010				
Oyster shell recycling containers are positioned at our two busiest sites: Moyock and Barco. NC Division of Marine Fisheries collects the shells and uses them to establish new oyster breeding grounds in the sounds	2011				



## Appendix F Planning Elements

### NC Local Government 10 Year Solid Waste Management Plan Planning years 2012 - 2022 Disposal

Completed Actions	Incomplete Actions		New / Revised Actions		
Key Actions	Key Actions	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
Continue with the arrangement with ECE Landfill through 2035  Yard waste ground and sold to Weyerhaeuser for fuel  Fluorescent bulbs, CFLs and ballasts are sent to Southeastern Technologies for recycling  Dry cell batteries are sent to Southeastern Technologies  Used oil, oil filters and antifreeze are disposed of through FCC Environmental  Mahoney Environmental recycles used cooking oil collected			Currituck County intends to continue with the arrangement with ECE Landfill  Evaluate and adjust solid waste fees annually or as needed  Co-mingled recyclables to TFC, Chesapeake, VA  Glass to ECG, Eliz City  WM hauls tires to Emanuel Tire (VA) for recycling	Through 2035  Through 2022  1/1/09 thru 12/31/2010  01/01/09 thru 12/31/2013	2400  600  100

**Appendix F  
Planning Elements**

**NC Local Government 10 Year Solid Waste Management Plan  
Planning years 2012 - 2022  
Transfer outside geographic area**

Completed Actions	Incomplete Actions		New / Revised Actions		
Key Actions	Key Actions	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
<p>Continue to accept some out-of-county waste, charging enhanced tipping fees (current standard tipping fee \$71 per ton in 2011, out-of-county tipping fee is \$81 per ton)</p>			<p>Currituck County to continue with transfer arrangements, sending waste through the county transfer station in Maple to the ECE Landfill</p> <p>County will change tipping fees as needed to match its costs.</p>	<p>Through 2035</p> <p>Through 2035</p>	

## Appendix F Planning Elements

### NC Local Government 10 Year Solid Waste Management Plan Planning years 2012 - 2022 Reduction

Completed Actions	Incomplete Actions		New / Revised Actions		
Key Actions	Key Actions	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
<p>County departments to continue current reduction practices plus new efforts</p> <p>Continue to promote source reduction practices, including toxicity reduction</p> <p>Encourage participation in pesticide jug rinsing and recycling program to ensure waste toxicity reduction</p> <p>Purchase products &amp; supplies with as little packaging as possible with the packaging necessary being recyclable.</p>			<p>Continue to teach these source reduction programs with updates as needed</p> <p>Cooperative Extension to teach environmental and conservation topic programs</p> <p>Encourage community promotional reusable shopping bags in lieu of plastic bags</p> <p>Develop a policy to reduce the toxicity of chemicals used by agencies and facilities</p>	<p>through 2022</p> <p>through 2022</p> <p>through 2022</p> <p>2012</p>	<p>300</p> <p>60</p> <p>1</p>



## Appendix F Planning Elements

### NC Local Government 10 Year Solid Waste Management Plan Planning years 2012 - 2022 Recycling and Reuse

Completed Actions	Incomplete Actions		New / Revised Actions		
Key Actions	Key Actions	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
<p>Implemented recycling program for all County offices &amp; facilities 2007 Fluorescent bulbs, CFL's and ballasts are collected at 8 recycling centers and county buildings and</p> <p>Dry cell batteries are collected at 8 recycling centers &amp; county buildings for recycling 2007</p> <p>Glass to ECG</p> <p>Co-mingled recyclables to TFC, Chesapeake VA 2009 inclusion of more recyclables,</p> <p>4000 96-gallon recycling containers provided by the County to residents and visitors in the curbside pickup area (Corolla)</p>			<p>Divert more C &amp; D and scrap metal for recycling, and develop new programs if feasible</p> <p>Continue with all in-house programs and will continue to reuse surplus equipment</p> <p>Continue Extension and Regional Authority recycling and reuse programs</p> <p>Implement programs to recycle landfill banned items before legislation becomes effective</p> <p>Rewrite special use permits requirements to include venue and event recycling as mandatory</p> <p>Implement programs to recycle landfill banned items before legislation is effective</p> <p>Research asphalt shingle recycling</p> <p>Beach access recycling program (6/2011)</p>	<p>Through 2022</p> <p>Through 2022</p> <p>Through 2022</p> <p>2013</p> <p>Through 2022</p> <p>2014</p> <p>Thru 2022</p>	<p>200</p> <p>100</p> <p>5</p> <p>50</p>

Established electronic waste recycling collection center at the Barco recycling center opened December 1, 2009.					
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**Appendix F  
Planning Elements**

**NC Local Government 10 Year Solid Waste Management Plan  
Planning years 2012 - 2022  
Composting and Mulching**

Completed Actions	Incomplete Actions		New / Revised Actions		
Key Actions	Key Actions	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
<p>Extension Service and Regional Authority plan to continue to teach and encourage the practice of back yard composting and vermi composting</p> <p>Yard waste is ground and sold to Weyerhaeuser for fuel</p> <p>Christmas tree recycling is in effect curbside in Corolla and at all 8 recycling centers</p>			<p>Continue to teach and encourage back yard composting</p> <p>The county wishes to continue with the chipping program</p> <p>Christmas trees used with sand fencing to stabilize dunes</p>	<p>Through 2022</p> <p>Through 2022</p> <p>Through 2022</p>	<p>300</p>

**Appendix F  
Planning Elements**

**NC Local Government 10 Year Solid Waste Management Plan  
Planning years 2012 - 2022  
Incineration with energy recovery**

<b>Completed Actions</b>	<b>Incomplete Actions</b>		<b>New / Revised Actions</b>		
Key Actions	Key Actions	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
			No incinerators are in this region, so this is not an available option		

**Incineration without energy recovery**

<b>Completed Actions</b>	<b>Incomplete Actions</b>		<b>New / Revised Actions</b>		
Key Actions	Key Actions	Why Incomplete?	Key Actions	Due Date	Estimated tons diverted in 10 <sup>th</sup> year
			No incinerators are in this region, so this is not an available option		

**Appendix G**  
**Miscellaneous supporting data including ordinances,  
emergency preparedness plan, and buy-recycled policy**

Currituck County's Solid Waste Ordinance may be reviewed at the following  
URL: <http://www.municode.com/resources/gateway.asp?pid=12419&sid=33>