

Brunswick County Planning Area

Solid Waste Management Plan 3-Year Update

County of Brunswick

Bald Head Island

Belville

Bolivia

Boiling Spring Lakes

Calabash

Carolina Shores

Caswell Beach

Holden Beach

Leland

Navassa

Northwest

Oak Island

Ocean Isle Beach

Sandy Creek

Shalotte

Southport

St. James

Sunset Beach

Varnamtown

November 2009

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INTRODUCTION

This plan was prepared in accordance with N.C. General Statute 130A-309.09A (b) for the purpose of meeting local solid waste needs and protecting public health and the environment. The sections of the plan are ordered as listed in the General Statute.

Through implementation of this solid waste management plan, the Brunswick County planning area provides for solid waste management and reduction within the planning area from 2009-2019. This plan includes the planning area of all unincorporated areas of Brunswick County and the following municipalities located within the County: Bald Head Island, Belville, Boiling Spring Lakes, Bolivia, Calabash, Carolina Shores, Caswell Beach, Holden Beach, Leland, Navassa, Northwest, Oak Island, Ocean Isle Beach, Sandy Creek, Shallotte, Southport, St. James, Sunset Beach, and Varnamtown.

Brunswick County's long-range vision is for a comprehensive and cost-effective waste management program. This program would provide disposal capacity, waste collection services, and waste reduction programs to all members of the community. The vision includes the elimination of improper disposal of waste and expanded waste reduction opportunities that are convenient for residents. The vision is for a community that understands the environmental benefits of waste reduction and proper waste disposal. This vision is translated into five long-range planning goals listed below. These goals are listed in no particular order.

Planning Area Goals

- Goal 1** Protect public health and the environment
- Goal 2** Provide Brunswick County residents with waste disposal capacity, waste collection services, and waste reduction opportunities
- Goal 3** Meet or exceed the established local waste reduction goals
- Goal 4** Eliminate improper waste disposal
- Goal 5** Increase the efficiency and cost-effectiveness of the solid waste program

Part I. GEOGRAPHIC AND SOLID WASTE STREAM EVALUATION

Geographic Area

This solid waste management plan covers Brunswick County and its nineteen incorporated municipalities. A map of Brunswick County is provided in Appendix C. Most of Brunswick County's permanent residents live in unincorporated areas (see Table 1).

Table 1. Estimated Population, 2006

MUNICIPALITIES & COUNTY	POPULATION	PERCENT CHANGE FROM 1990
Bald Head Island	241	+209%
Belville	1,440	+2082%
Boiling Spring Lakes	3,983	+141%
Bolivia	167	-27%
Calabash	1,420	+17%
Carolina Shores	2,671	+159%
Caswell Beach	478	+173%
Holden Beach	915	+46%
Leland	9,607	+433%
Navassa	1,826	+310
Northwest	812	+21%
Oak Island	8,093	+78%
Ocean Isle Beach	501	-4%
Sandy Creek	285	+17%
Shalotte	1,843	+91%
Southport	2,860	+21%
St. James	1,941	+141%
Sunset Beach	2,280	+633%
Varnamtown	568	+41%
Brunswick County – unincorporated areas	53,033	+55%
TOTAL	94,964	+86%

Source: Office of State Planning Sources: 1980, 1990, 2000 & 2006 Census of Population

- Ratio of peak season to permanent population is estimated at 3:1
- Yaupon Beach and Long Beach merged to form Oak Island on 7/1/99
- Town of St. James incorporated on 7/1/99

Based on percent increase from 1990 - 2006, Brunswick County is the second largest growing

county in the State of North Carolina. Brunswick County also has a distinct seasonal population. From late May through August, the Brunswick County Planning Department estimates that the peak population is 255,000 concentrated mostly in the beach areas.

The County of Brunswick provides curbside collection of household garbage for once a week pickup for all residents and businesses throughout the County including within municipal limits. The following municipalities provide additional curbside services: Bald Head Island, Calabash, Caswell Beach, Leland, Holden Beach, Oak Island, Ocean Isle Beach, Shallotte, Southport, St. James and Sunset Beach. The services provided by these municipalities may include recycling, yard waste collection, special collections and additional solid waste collection schedules to accommodate seasonal population fluctuations.

Waste Stream Evaluation

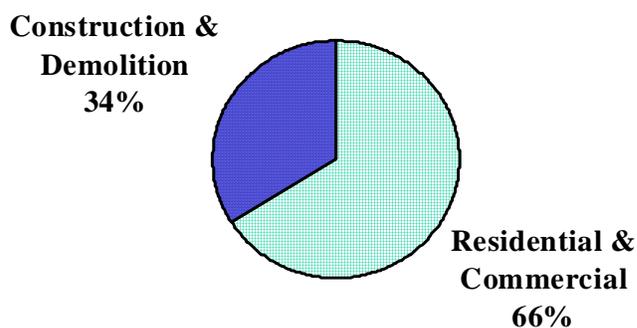
In this plan, residential/commercial waste refers to waste generated by households and businesses. Brunswick County and its municipalities disposed of approximately 118,319 tons of waste in FY 2008-09. An estimate of the waste disposed by sector is shown in Table 2. These calculations are based on tonnage records from the Brunswick County Landfill scale house and estimates made by County staff. Figure 1 shows the percent of solid waste disposed by sector.

Table 2. Estimated Waste Disposed by Sector, FY 2008-09

TYPE OF WASTE	TONS
Residential/Commercial	78,578
Construction and Demolition	39,741
TOTAL	118,319

Source: Scale house records and staff estimates

Figure 1: Percent disposed by sector



The North Carolina Department of Pollution Prevention and Environmental Assistance (NC DPPEA) provided a Quick Waste Stream Analysis for Brunswick County. This analysis used waste stream factors from the North Carolina Market Assessment report and data from the FY 2007-08 Local Government Solid Waste Management Annual Reports. This analysis seeks to identify the presence of basic materials in a community's waste stream. Using the 58,734.33 tons of residential waste that Brunswick County and its municipalities estimated were disposed in FY 2007-08, the amounts of different materials in the local waste stream was estimated in the amounts shown in Table 3.

Table 3. Estimate of Residential Waste Composition

MATERIAL	PERCENT OF WASTE COMPOSITION	ESTIMATED 2007-08 COUNTY TONS DISPOSED
Paper	45%	26,826.22
Plastics	9%	5,316
Pallets & Wood Crates	10%	5,767.02
Food Wastes	19%	11,115.94
Textiles	4%	2,395.90
Glass	6%	3,598.53
Aluminum Cans	1%	575.01
Steel Cans	2%	1,003.35
White Goods	3%	1,487.86
Electronics	1%	648.50
TOTAL	100%	58,734.33

Source: NC DPPEA Quick Waste Stream Analysis for Brunswick County FY 07-08

Part II. LOCAL WASTE REDUCTION GOALS

Based on Brunswick County per capita waste disposal rates since fiscal year 1991-92, the planning area established a revised goal of 12% to be reached by June 30, 2014, and a goal of 15% to be reached by June 30, 2019. This is a challenging goal taking into consideration the growing population.

According to the North Carolina Solid Waste Management Annual Reports for FY1994-95 and FY1998-99, the per capita waste disposal for North Carolina increased 13% from 1.08 to 1.22. As shown in Table 4, the per capita waste disposal for Brunswick County decreased from FY1991-92 through FY1995-96 and increased from FY1996-97 through FY1999-00. This is similar to the overall trend in the recent State Annual Report. The increase in FY1996-97 through FY1999-00 was due to the severe damage Brunswick County experienced from hurricanes. For example, in FY1998-99, the Brunswick County Landfill recorded collecting 9,993 tons of material directly related to damage from hurricanes. If this tonnage is subtracted from the overall waste, the per capita disposal for FY1998-99 is 1.41, a 1.5% decrease from FY1991-92. Brunswick County greatly reduced its per capita in the years following the hurricanes. In FY2000-01 Brunswick County achieved a 20% waste reduction with a per capita of 1.19. While not maintaining the 20% reduction of the previous year Brunswick County still achieved a 9% waste reduction in FY2001-02 with a per capita of 1.34. Per capita waste disposal increased 8.97% from FY 2002-03 to FY 2003-04, and 5.7% from FY 2003-04 to FY 2004-05. This can be attributed to the increase in C & D debris from the building of new homes because of the influx of people into Brunswick County. FY 2005-2006 reflected a decrease in waste reduction of 32% with a per capita of 1.95. During FY 2006-07 Brunswick

County experienced a 36% decrease in the waste reduction rate with a per capita of 2.01. Brunswick County experienced an increase in waste reduction during FY 2007-2008 compared to FY 2006-07 of 26% which would reflect a 0% waste reduction rate with a per capita of 1.48. This decrease was attributed to a decline in the economy. Brunswick County had an increase in waste reduction during FY 2008-2009 with a waste reduction rate of 22% with a per capita of 1.15.

Table 4. Per Capita Disposal from FY 1991-92 through FY 2008-09

YEAR	POPULATION	WASTE DISPOSAL	PER CAPITA WASTE DISPOSAL
FY 1991-92	53,614	78,123	1.48
FY 1992-93	56,896	82,785	1.45
FY 1993-94	58,029	76,005	1.31
FY 1994-95	59,202	79,917	1.35
FY 1995-96	60,795	83,117	1.37
FY 1996-97	62,856	88,775	1.41
FY 1997-98	67,341	97,873	1.45
FY 1998-99	69,700	108,579	1.56
FY 1999-00	69,501	126,699	1.82
FY 2000-01	73,143	87,059	1.19
FY 2001-02	76,904	103,367	1.34
FY 2002-03	79,054	114,532	1.45
FY 2003-04	81,810	129,221	1.58
FY 2004-05	85,034	141,661	1.67
FY 2005-06	88,287	172,387	1.95
FY 2006-07	93,874	188,573	2.01
FY 2007-08	99,440	147,630	1.48
FY 2008-09	103,160	118,319	1.15

Source: County Solid Waste Management Annual Reports

To meet the revised local goal of 12% per capita waste reduction in FY2013-14 and 15% in FY2018-19, Brunswick County must reduce its per capita disposal rate to 1.30 and 1.26 tons per capita respectively (see Table 5).

In the baseline year, fiscal year 1991-92, the disposal rate for Brunswick County was 1.48 tons per capita. If Brunswick County had a waste reduction goal of zero percent, with the projected population increase, Brunswick County would dispose 190,463 tons in FY2013-14 and 216,416 tons in FY2018-19 (see Table 6). Using the proposed reduced per capita disposal rates of 1.30 tons by FY2013-14 and 1.26 tons by FY2018-19, the annual tonnage remaining for disposal by Brunswick County would be 167,298 tons and 184,246 tons respectively. In other words, 23,165 tons of future annual waste disposed would be diverted from landfills in FY2013-14 and 32,170 tons in FY 2018-19 (see Table 5).

Table 5. Targeted Waste Reduction, FY 2013-14 and FY 2018-19

CALCULATIONS	FY 2013-14	FY 2018-19
1) Baseline year (FY 1991-92) per capita disposal rate	1.48	1.48
2) Proposed solid waste reduction goals	12%	15%
3) Targeted per capita disposal rate based on waste reduction goals (subtract line 2 from 1.0, then multiply the result by line 1)	1.30	1.26
4) Projected population (County figure from US Census Bureau projections)	128,691	146,227
5) Projected annual tonnage for disposal at baseline per capita disposal rate (multiply line 1 by line 4)	190,463	216,416
6) Targeted annual tonnage for disposal at targeted per capita disposal rate (multiply line 3 by line 4)	167,298	184,246
7) Targeted annual tonnage to reduce (subtract line 6 from line 5)	23,165	32,170

Source: staff calculations

Part III. MEETING THE WASTE REDUCTION GOALS

This plan is designed to reduce Brunswick County's waste by 23,165 tons in FY2013-14 and 32,170 tons in FY2018-19. To do this, Brunswick County will target the types of waste generated as shown in Table 6. How these wastes will be targeted is addressed below. Detailed descriptions of specific waste reduction activities planned appear in Part V.

Table 6. Approximate Waste Reduction by Sector, FY 2013-14 and FY 2018-19

WASTE TYPE	TARGETED TONS to REDUCE in FY2010-11	TARGETED TONS to REDUCE in FY2018-19
Residential/Commercial	15,289	21,232
Construction/Demolition	7,876	10,938
GOAL	23,165	32,170

Source: staff estimates

Residential/Commercial Waste

This plan targets 15,289 tons in FY2013-14 and 21,232 tons in FY2018-19 for reduction in residential and commercial waste. Table 7 summarizes the residential waste reduction methods to be used to meet the local goals. School and community education is not listed because they are expected to affect each of the other waste reduction methods listed. Specific activities planned are described in Part V.

Table 7. Targeted Residential Waste Reduction, FY 2013-14 and FY 2018-19

REDUCTION METHOD	TARGETED MATERIALS	EST.TONS FY 2013-14	EST.TONS FY 2018-19
Source Reduction	Packaging, Disposable Drink and Food Containers	61	85
Recycling	Cardboard, Newspaper, Mixed Paper, Junk Mail, Magazines, Steel Cans, Aluminum, Plastic 1 through 7, Glass, White Goods	2,293	3,185
Swap Shop	Furniture, Dishes, Appliances	765	1,062
Clothing	Clothes, Blankets (textiles)	5	6
LCID	Concrete, Brick, Asphalt	7,185	9,979
Carpet	Carpet, Carpet Padding	38	53
Electronics	Computer Equipment, Televisions, other electronic devices	92	127
Composting & Mulching	Yard Debris, Grass Clippings, Leaves, Pallets, and Clean Lumber	3,669	5,096
Special Wastes	Household Hazardous Waste, Used Oil, Used Antifreeze, Batteries, Fuel, Latex Paint	1,180	1,639
TOTAL		15,289	21,232

Source: staff estimates

Construction and Demolition Waste

It is estimated that construction and demolition waste can be reduced by 7,876 tons in FY2013-14, and 10,938 tons in FY2018-19. The proposed reduction methods and targeted wastes are shown in Table 8.

Table 8. Targeted Construction and Demolition Waste Reduction, FY 2013-14 and FY 2018-19

REDUCTION METHOD	TARGETED MATERIALS	EST.TONS FY 2013-14	EST.TONS FY 2018-19
Reuse	Pallets, Wood	1,812	2,516
Recycling	Shingles, Cardboard, Packaging	3,859	5,359
Composting & Mulching	Pallets, Land Clearing, Untreated Wood	2,205	3,063
TOTAL		7,876	10,938

Source: staff estimates

Part IV. THE PLANNING PROCESS AND PUBLIC PARTICIPATION

Brunswick County Solid Waste staff coordinated the update of this plan. Each municipality was contacted to receive updated information. The draft plan was distributed to all municipalities for review. The final revised plan was set on the agenda of the County and each municipality for adoption at a public meeting (see Appendix A).

Part V. SOLID WASTE MANAGEMENT METHODS: ASSESSMENT OF PROGRAMS

Each solid waste management method as required by North Carolina G.S. 130A-309.09A (b) is described below. Each section includes an assessment of the current program.

A. Source Reduction

Current Program: “Pre-cycle” Educate the public about the importance of purchasing items that have less packaging or recyclable packaging. The outreach for this program is targeted at the schools and civic groups.

B. Collection of Solid Waste

Current Program: On July 1, 1998, the County began contracting with Waste Industries to provide curbside collection of municipal solid waste (MSW) for all businesses and residents in Brunswick County, including within municipal limits. Each business and resident is offered one 96-gallon container for once a week collection, or an equivalent credit towards a dumpster (if service is provided by County contractor). The current cost is \$11.24 per container for the once a week collection. Based on the annual report for FY 2008-09 the number of containers being serviced was approximately 74,642. The annual tonnage of MSW collected by Waste Industries for FY08-09 was

approximately 78,578. This program is currently funded through the County General Tax Fund. The County has a contract with Waste Industries to staff the County convenience sites and to provide curbside garbage collection through June 30, 2014. At the end of this contract, the County will have to evaluate the program and consider additional options. As Table 10 shows, some municipalities provide additional solid waste collection programs to their residents.

Brunswick County owns one transfer station located at the Brunswick County C&D Landfill, and four convenience sites for solid waste collection. Employees from Waste Industries staff these sites. The transfer station is for business and residential use and the convenience sites are for residential use only. Collection fees are charged for waste brought to these sites as shown in Table 9. Collection fees at the convenience sites and MSW charges at the transfer station are kept by Waste Industries to cover the cost of solid waste disposal. The transfer station is open Monday through Saturday 8 a.m. to 4 p.m., and the four convenience sites located in Southport, Leland, Supply and Sunset Beach are open Monday, Wednesday, Friday and Saturday from 8 a.m. to 6 p.m. All the municipal solid waste collected curbside and at the convenience sites are required to go to the transfer station at the Brunswick County C&D Landfill in Bolivia.

Table 9. Brunswick County Collection Fees and Tipping Fees

TYPE OF MATERIAL	County Convenient Sites	Transfer Station	County C & D Landfill
Municipal Solid Waste – Regular bagged household trash.	<ul style="list-style-type: none"> • \$2.00 per 1-20 gallon bag • \$3.00 per 21-40 gallon bag • \$4.00 per larger than 40 gallon bag 	<ul style="list-style-type: none"> • \$56.00 per ton 	
Brown Goods – Large items such as mattresses and old furniture.	<ul style="list-style-type: none"> • \$8.00 per item • \$40.00 max charge for a pickup truckload 	<ul style="list-style-type: none"> • \$56.00 per ton 	
Construction and Demolition (C & D) Waste. Examples include treated wood, sheetrock, doors, windows, siding, and pipe.	<ul style="list-style-type: none"> • \$11.00 minimum • \$16.00 for 1/4 truckload • \$32.00 for 1/2 truckload • \$48.00 for 3/4 truckload • \$64.00 for full truckload 		<ul style="list-style-type: none"> • \$56.00 per ton
Shingles	Same prices as C & D Waste		<ul style="list-style-type: none"> • \$34.00 per ton
Asbestos	Not accepted at Convenient Sites		<ul style="list-style-type: none"> • \$56.00 per ton
Concrete, Brick, and Clean Soil	<ul style="list-style-type: none"> • \$11.00 minimum • \$16.00 for 1/4 truckload • \$32.00 for 1/2 truckload • \$48.00 for 3/4 truckload • \$64.00 for full truckload 		<ul style="list-style-type: none"> • \$ 7.00 per ton
Recycled Items - Aluminum and steel cans, mixed paper, junk mail, magazines, glass (green, clear, & brown), newspaper, and plastics #1 and #2.	Accepted free of charge.		Accepted free of charge.
Corrugated Cardboard	Accepted free of charge.		Accepted free of charge.
Tires	Not accepted at Convenient Sites		Accepted free of charge from County individual with 5 or fewer tires <u>or</u> from County business with a valid scrap tire certification form.
White Goods (appliances)	Accepted free of charge.		Accepted free of charge.
Yard Debris – Untreated wood may be included in yard debris. No plastic bags or garbage bags are accepted in yard debris, paper bags or compost bags are acceptable.	<ul style="list-style-type: none"> • \$2.00 per 1-40 gallon bag • \$3.00 per larger than 40 gallon bag • \$6.00 for loose 1/4 truckload • \$12.00 for loose 1/2 truckload • \$18.00 for loose 3/4 truckload • \$24.00 for loose full truckload 		<ul style="list-style-type: none"> • \$22.50 per ton
Mobile Homes – Mobile homes must be empty or stripped of all contents. Wheels and axles will not be returned to the owner.	Not accepted at Convenient Sites		<ul style="list-style-type: none"> • \$56.00 per ton *If mobile home cannot fit on the scale, there will be a flat fee of \$ 250.00 per mobile home.
Rechargeable Batteries & Cell Phones	Accepted free of charge.		Accepted free of charge.

Table 10. Municipal Solid Waste Collection Program Information

Municipality	Contractor	Households Served	Service provided by Municipality in addition to County Program
Bald Head Island	Waste Industries	1,163	Second backdoor collection May - September, 40-yd manned drop-off site
Caswell Beach	Waste Industries	484	Second curbside collection June - September
Holden Beach	Waste Industries	2,133	Second curbside collection June – September
Ocean Isle Beach	Waste Industries	2,859	Second curbside collection May – September, and a third collection June – August
Sunset Beach	Waste Industries	1,283	Second curbside collection (island only) May – September
Oak Island	Waste Industries	1,666	Second curbside collection May – September

Source: Waste Industries

C. Recycling and Reuse

Recycling

Current Program: Brunswick County has been working since 1998 to maintain a stable recycling program. Currently, the County is recycling about 9% of the residential waste. The amount collected by municipal and county recycling programs is listed in Table 11. The County transfer station and four convenience sites have drop-off recycling containers. The County has added eight additional recycling drop-off sites at County parks, community buildings, schools and the County Government Center. All County drop off sites were switched in March of 2000 to a commingled collection, allowing the additional materials of steel cans, magazines, mixed paper and junk mail to be added to the following materials: Mixed paper, plastics #1 through #7, aluminum cans, steel cans and glass (clear, brown, and green). There are also cardboard recycling containers at each convenience site as well as the transfer station.

Currently, Bald Head Island, Calabash, Carolina Shores, Holden Beach, Ocean Isle Beach, St. James, and Sunset Beach provide drop-off recycling centers for their residents. Caswell Beach, Leland, Oak Island, Shallotte, St. James and Southport provide curbside recycling collection. Caswell Beach also provides a container for cardboard at their town hall. All of these recycling programs are contracted through Waste Industries. The municipal recycling programs accept the same materials as the County.

Brunswick County implemented collection fees in July of 1998, but recycling continues to be free to all residents and businesses. This is an incentive for businesses, industries, and residents to separate their recyclable materials. Waste Industries provides the drop off containers and hauls the collected material to a material recovery facility (MRF). This is part of the collection contract and there are no separate or additional costs. A lower tipping fee is charged for clean, untreated lumber to

encourage the recycling of some construction debris. A cardboard bailer was added to the Transfer Station, and many cardboard recycling containers have been distributed to local businesses to target the reduction of residential/commercial waste.

Brunswick County has assisted the community college and all local schools in starting their own recycling programs. Brunswick County provides recycling for all public county schools. The Recycling Coordinator has made several presentations on the benefits of recycling at local schools and has given tours of the landfill to Environmental Biology students from the community college. The Solid Waste and Recycling staff has also set up booths at local events and fairs to distribute information on the recycling programs offered by the County.

Table 11: Residential Recycling in Tons, FY 2008-09

MATERIAL	County	Bald Head Island	Calabash	Carolina Shores	Caswell Beach	Leland	Holden Beach	Oak Island	Ocean Isle Beach	Shallotte	Southport	Total
White goods	1,117											1,117
Cardboard	816			25								841
Commingled materials	1,910	62	n/a	120	114	284	154	634	175	59	101	3,551
TOTAL	3,843	62	n/a	145	114	284	154	634	175	59	101	5571

Source: County and Municipal Annual Solid Waste Management report for FY2008-09

Reuse

Current Program: Several reuse programs such as consignment shops and thrift stores exist within Brunswick County. These stores accept and sell used clothing, household items, furniture, tools, jewelry, books, children’s toys, and other items. Several examples of such stores are the Carousel Consignment Shop in Southport, Hope Chest (four stores throughout County), East Side Thrift Shop in Shallotte, Calabash EMS Thrift Shop, L. Bookworm in Holden Beach, and Sheltered Treasures in Seaside. The County sponsors two clothes drives annually and donates the clothes to Hope Chest stores, which are associated with a local organization for battered women.

Brunswick County received a Solid Waste Assistance Grant in 2000 for the construction of a SWAP Shop. This shop is located at the County Transfer Station/ C&D Landfill. Residents are requested to bring other reusable or recyclable materials to exchange for items from the swap shop. Exceptions will be made for residents in need due to extreme circumstances such as fire or hurricane damage.

D. Composting and Mulching

Composting

Current Program: In 1997, Cooperative Extension Service applied for a back yard composting grant for \$10,000. This grant was awarded to the City of Southport. The program started in 1998 and included training sessions, distribution of more than 250 composting bins, a follow-up survey, and two demonstration composting sites located in Southport and Oak Island. Cooperative Extension estimates that 750 cubic yards of landscape and garden waste was diverted from the waste stream with this program as of June 2000. Oak Island no longer has a demonstration site.

Brunswick County operates a permitted, Type 1, Solid Waste Compost Facility at the Brunswick County C & D Landfill. Residential yard waste is accepted at the Brunswick County C&D Landfill / Transfer Station and all four convenience sites. Non-residential yard waste is accepted at the County C&D Landfill / Transfer Station only. Carolina Shores provides a drop-off collection container for yard waste collection for their residents. Leland provides a designated yard debris drop off area for residential use. Calabash provides curbside yard waste collection once a year and a drop-off collection site three times a year for their residents. Holden Beach, Oak Island, Ocean Isle Beach, Southport, and Sunset Beach offer curbside yard waste collection for their residents. All yard waste collected is hauled to the County C&D Landfill / Transfer Station and stockpiled until there is sufficient quantity for grinding. Clean, untreated wood is also ground and mixed with the yard waste for resulting mulch. Grinding occurs approximately four times a year. In April 2001, the County Board of Commissioners approved a request to give mulch away to County residents until further notice. This was due to the large amount of mulch generated from disaster debris. As of November 2009, mulch is still free to County residents. To avoid this problem in the future, the County has contracted with Phillips and Jordan, Inc., until June 2009 to handle disaster debris. As of June 2009 the contract for disaster debris was awarded to Unified Recovery Group, LLC for a term of three years. It is stated in this contract that the debris should be reduced as much as possible through means of air curtain incineration versus grinding or mulching.

E. Incineration with Energy Recovery

Current Program: The County currently does not have an incineration with energy recovery program.

F. Incineration without Energy Recovery

Current Program: Incineration is not part of the County's current program.

G. Transfer of Solid Waste Outside Geographic Area

Current Program: Brunswick County currently contracts with Waste Industries to haul all municipal solid waste from the County Transfer Station to a MSW landfill in Sampson County. It is approximately 86 miles from the County Transfer Station to Waste Industries' landfill in Sampson County. An estimated 78,578 tons of MSW was transferred in FY 08-09. It is also estimated that this approximate amount of waste will be transferred out of County each year until the contract with Waste Industries ends in 2014. At this point, the County will have to renew the contract and

continue transferring out of County or it will have to construct a MSW landfill.

H. Disposal of Solid Waste

Current Program: All municipal solid waste is currently contracted with Waste Industries for disposal at a MSW landfill in Sampson County. The current contract with Waste Industries is valid through June 2014. To ensure adequate disposal for the future Brunswick County will continue to contract and transfer MSW out of County after June of 2014 or it will prepare to construct a MSW landfill in Brunswick County. All C&D waste is disposed of at the permitted Brunswick County C&D Landfill. Refer back to Table 10 for costs of disposing at the Transfer Station, C&D Landfill or Convenience sites. The County has received an extension on the C&D permit that will extend the life of the landfill to adequately serve the needs of the community through March 28, 2014; given the C&D rules do not change. At this time, no waste is imported into the County and there are no plans to start importing waste. In the event of a natural disaster, certain sites have been selected and approved by the state for temporary storage of disaster debris.

I. Transfer of Construction and Demolition Debris Outside Geographic Area

Current Program: Brunswick County has contracted with Sandlands C&D Landfill, LLC for the transportation and disposal of up to 50% of the County's construction and demolition waste stream. FY 2009 Sandlands transferred 33% of the County's construction and demolition waste. This contract was implemented to extend the life of Brunswick County's current C&D landfill.

J. Disaster Debris Removal

Current Program: Brunswick County has contracted with Unified Recovery Group, LLC for disaster debris management services. This contract is valid through June 2012 and can be renewed for an additional three-year term. For disaster debris removal of category 1 & 2 hurricanes, County residents are notified to place all disaster debris at roadside for collection. The contractors then collect the debris and transport to the County's Landfill/Transfer Station for disposal. For disaster debris removal of category 3, 4 & 5 hurricanes, Brunswick County selected possible staging areas for debris collection in addition to the normal procedure of collection and disposal. Brunswick County has several sites that have "conditional approval" from DENR as temporary debris storage areas. Unified Recovery Group, LLC will reduce the amount of debris via air curtain incinerator as much as possible and grind the remaining debris into mulch. A copy of the debris management contract with Unified Recovery Group is located in Appendix G.

Part VI. EDUCATION, SPECIAL WASTES, ILLEGAL DISPOSAL, AND PURCHASING: ASSESSMENT OF PROGRAMS

A. Community and School Education

Current Program: Brunswick County Solid Waste & Recycling Staff coordinated a recycling education presentation in all of the local schools and instituted a school wide recycling program in those schools. Goodie bags containing items with recycling messages and Solid Waste and Recycling brochures are distributed to each student. Brunswick County Solid Waste & Recycling Staff extend the education/outreach program to any group or organization wishing to promote waste reduction. We also attend community events, festivals, and parades to distribute literature about recycling and proper waste disposal. Brunswick County regularly advertises in local papers for current programs regarding recycling, mulch, and special events. Recycling information is also advertised in the county telephone book. The County developed and distributed recycling brochures in 2001 and solid waste brochures in 2003. Both brochures are given to new residents and distributed at various public places throughout the County. The County also distributed litterbags to public places, such as gas stations, post offices, and libraries, in June 2001 and has continued this litter prevention/community awareness program.

B. Special Waste Management

Tires

Current Program: Tires are collected free of charge at the County C&D Landfill / Transfer Station for residents disposing of five or fewer tires at a time, or businesses with a scrap tire certification form. Tires are stored in an open top trailer and collected by Central Carolina Holdings, LLC two or three times per week. In addition, Central Carolina Holdings, LLC provides a trailer at the convenience site in Southport and at the Leland convenience site that is hauled off when full. Central Carolina Holdings, LLC is also contracted to clean up nuisance tire sites located in the County when necessary. Money from the statewide tire disposal tax pays for the majority of this program.

White Goods

Current Program: White goods are accepted at the Brunswick County C&D Landfill / Transfer Stations and all four convenience sites. All five locations accept the white goods free of charge from residents. The white goods collected at the four convenience centers are hauled to the Landfill by our waste hauler, Waste Industries. Waste Industries collects from each of the four sites on a weekly basis. Waste Industries will collect more often if needed. The white goods collected at the convenience centers are hauled to the main Landfill in Bolivia and are stored there on a concrete pad.

Brunswick County's contractor for processing and transporting of white goods is Stateline Scrap metal. Once the pad at the landfill is nearly full, the contractor is called; they have a minimum of thirty days to respond and remove all white goods. As per the white goods service agreement, Stateline Scrap Metal is responsible for the removal of CFCs from all white goods collected at the

landfill. The contractor also agrees to comply with all environmental laws, rules and regulations regarding CDFC recovery and is certified by the EPA. After each processing and transporting job is completed, Stateline Scrap Metal provides Brunswick County with a CFC manifest so that we can verify the number of appliances removed containing CFCs and the amount of CFCs removed.

Electronics

Current Program:

- a.** Brunswick County accepts electronics at the Brunswick County C&D Landfill / Transfer Station. Items included in this collection are computer equipment, office equipment, cell phones, power suppliers and chargers, televisions and other miscellaneous electronics. There is no charge to residents for this service. Electronics are stored in an open area on site until a collection is needed. When a collection is needed Brunswick County contacts the current contractor to schedule a pickup. Brunswick County's contractor for processing and transporting of electronics is CompuTel IG. They agree to pickup all electronics within ten days of notification. Once CompuTel IG is in possession of the electronics they assume title to the electronics and all responsibility for the electronics. The contractor assumes liability for all applicable local, state and federal laws, including but not limited to transportation of electronics.
- b.** Information on the electronics recycling program is distributed at events, festivals, and through the outreach and education program. Newspaper ads are placed periodically throughout the year. Information about the electronics recycling program is on the county website.
- c.** Tonnage of equipment collected will be tracked by weighing the material as it leaves the collection site with the contracted electronic recycling company. The contracted electronic recycling company will submit a statement to Brunswick County Solid Waste Department that itemizes the tonnage for computer equipment, televisions, and other electronics. This will allow us to track televisions separately from other equipment.
- d.** The electronics recycling program is available to all Brunswick County residents. There is no additional charge to the residents for utilizing the program.
- e.** Any funds received to support the electronics recycling program will be tracked by Brunswick County's finance/accounting department. Expenditure of funds received will also be tracked by Brunswick County's finance/accounting department and by the solid waste/recycling department. Funds received from the State's Electronics Management Program will only be used to support the electronics recycling program.

Brunswick County is currently in the process of building an enclosed area for the storage of collected electronics. This is made possible due to a grant awarded to Brunswick County from NCDENR. The building is scheduled to be completed by June 30, 2010. Once the building is complete all electronics will be stored in the enclosed area until ready for pick up.

This is currently the only electronics recycling program in Brunswick County. No other electronics recycling program exists at this time. Brunswick County is the sole operator of this electronics recycling program and has no interaction with other local governments to operate this program.

Batteries

Current Program: The County coordinates a battery collection program at the Brunswick County C&D Landfill / Transfer Station. All batteries are accepted at this location. The batteries are then collected by Interstate Batteries to be recycled. In addition, rechargeable batteries are accepted at the four County Convenient Sites and the C&D Landfill/Transfer Station. These batteries are shipped to the Rechargeable Battery Recycling Corporation for recycling.

Used Motor Oil, Oil Filters and Gasoline

Current Program: The County currently has containers for used oil, oil filters, used antifreeze and gasoline located at the Brunswick County C&D Landfill / Transfer Station. Residents of Brunswick County may also take their used motor oil to the Advance Auto Parts in Shallotte or Southport.

The Town of Carolina Shores has a container for the collection of used oil. The Town of Oak Island has constructed and is using an oil and oil filter recycling facility.

Household Hazardous Waste

Current Program: The County hosted a household hazardous waste collection day in the fall of 1999. This program was funded by the State as part of a Disaster Response Program. Spring of 2000, Brunswick County sponsored its first HHW collection day. The collection was held on Earth Day, and was located at the Brunswick County C&D Landfill/Transfer Station. The County now sponsors two HHW events annually. The spring HHW event is held at Shallotte Middle School in April, and the fall HHW event is held at Wal-Mart in Southport in September.

Septic Waste

Current Program: Septic waste is handled by private contractors that use permitted land application disposal sites within the County. The County and municipalities have no facilities or disposal methods for septic waste.

Mobile Homes

Current Program: Brunswick County has a program for the management of abandoned manufactured homes. If a mobile home is damaged or dilapidated to the point that it will require more than 50% of the value of the mobile home to make the needed repairs the mobile home is declared abandoned and dilapidated. The County's code enforcement department has the authority to make this decision. Brunswick County takes a proactive approach in locating abandoned-dilapidated mobile homes. These homes are also brought to the County's attention through community complaints and owners of mobile home who contact Brunswick County to request an inspection on their mobile home to determine whether or not it qualifies as dilapidated. Once a mobile home has been deemed abandoned-dilapidated by the code enforcement department they notify the responsible party of the decision and inform them that they have 90 days to properly dispose of the abandoned-dilapidated home. The property owner is responsible for all costs of

disposal. The property owner is notified that a hearing date will be set for the end of that 90 day period. After the hearing, if the said property is determined abandoned and dilapidated, the responsible party must proceed with disposing of the mobile home. If the owner fails to take proper action Brunswick County may proceed with the removal of the abandoned-dilapidated mobile home.

Abandoned-dilapidated mobile homes removed by the county are disassembled and all recyclable material, such as the metal frame and appliances, are placed into the County's recycling stream. All hazardous material, such as mercury switches, are removed and disposed of through a certified hazardous materials disposal company. The remaining material is taken to the County's C&D Landfill for disposal. The property owner is billed for these services and the County may take legal action to collect for these services.

C. Prevention of Illegal Disposal and Management of Litter

Illegal Disposal

Current Program: Brunswick County employs one Solid Waste Control Officer who investigates and prosecutes (when possible) incidences of illegal disposal. When tipping fees were implemented in July of 1998, there were concerns that illegal dumping would increase. To help deter this dumping, the County sponsors a week in the spring and a week in the fall when residents can dispose of items other than their regular household or yard waste at no charge. The Solid Waste Officer also performs regular surveys of specific roads and/or areas known for illegal dumping.

Litter Management

Current Program: Curbside collection has decreased the litter on the sides of the roads because there is less garbage being transferred by fewer people. Brunswick County has also established a locally managed version of the state Swat-a-Litterbug program. Residents who witness an incident of littering may call 253-2648, which spells "CLEAN IT" to report the license tag number of the vehicle seen littering. This number has been advertised in local newspapers, on road signs and on Keep America Beautiful litterbags that are distributed throughout the County. Offenders receive letters addressed from Brunswick County Solid Waste Control Officer informing them that they were spotted and reported littering. The letter also informs the violator of the penalties for littering and urges them not to repeat the offense. The Solid Waste Control Officer continues to monitor and educate the public regarding ordinances on covering loads. Brunswick County also participates in Big Sweep and Litter Sweep every year.

D. Purchase of Recycled Materials and Products

Current Program: No buy recycled product program is in place at this time.

The Brunswick County government complex purchases recycled paper for their copiers and printers. Some departments also purchase their letter head paper with recycled content. The Solid Waste Department purchases items with recycled content to distribute to the public in order to increase public awareness of recycling. For example, the Solid Waste department has purchased pencils, pens, yoyos and tops made from recycled material with the County logo and recycle message printed on them.

Part VII. SOLID WASTE COSTS AND FINANCING METHODS

Description and Assessment of Costs:

County Description:

Brunswick County contracts to provide curbside garbage collection for all businesses and residents within the County, including within municipal limits. The County contracts this service at a rate of \$11.24 per household per month as of FY 08-09. This contracted price includes the collection of the garbage, transfer of the waste to the landfill in Sampson County and the disposal of the waste. The contracted price also includes the staffing of the four County convenience sites and one Transfer Station, as well as providing recycling containers for all drop off sites and collecting and hauling the recyclables to a MRF. The County is currently paying for approximately 74,642 services.

Brunswick County also operates the C&D Landfill. This includes the acceptance and maintenance of items for the SWAP shop, white goods, tires, land clearing and inert debris, used oil, used antifreeze, fuel, latex paint, lead-acid batteries, yard waste, LCID, carpet and electronics.

A summary of the County-operated solid waste program costs is shown in Table 12. These totals are derived from the full cost accounting section of the FY 08-09 annual report.

Table 12. Solid Waste Program Costs, FY 08-09

	Total	Solid Waste Collection/Disposal/ Recycling	Mulching/Composting /Other Programs
Program Cost	\$10,518,275		\$68,897
Cost per Household	\$141		
Cost per Ton	\$127 w/recycling	\$151.41	\$11.51

Source: Brunswick County Solid Waste Annual Report FY 08-09

Municipalities Description:

Bald Head Island

The Village of Bald Head Island provides backdoor service for collection of a thirty-gallon container for their residents. Bald Head Island utilizes County credit to help fund this service and between May and September, a second weekly collection is provided. Bald Head Island also provides a drop-off container for excess garbage and the County provides a commingled container for recycling. Bald Head Island employees staff the drop-off site during the week from 11 a.m. - 2 p.m. Waste Industries is contracted for the curbside collection as well as removal of waste and recyclable materials from the island. Bald Head Island provided these additional services for 1,105 households in FY 08-09 for a cost of \$238,961.23.

Belville

The Town of Belville does not provide any solid waste services for their residents as of FY 08-09. The only fees associated with Solid Waste are for the disposal of the Town Hall's waste.

Boiling Spring Lakes

Boiling Spring Lakes does not provide any solid waste services for their municipality as of FY 08-09.

Bolivia

Bolivia does not provide any solid waste services for their municipality as of FY 08-09.

Calabash

The Town of Calabash currently provides a drop-off site for yard waste to their residents. The site is currently open for two hours once a week. Calabash also provides its residents with a year round drop-off site for recyclable materials. Calabash provides the contracted services of yard waste collection. In FY 08-09 Calabash serviced 727 households. In FY 08-09 Calabash spent \$1,200 for these services.

Carolina Shores

Carolina Shores provides a drop-off center for solid waste, yard waste, used oil, and recyclable collection for approximately 1,839 households. The town does not participate in the County curbside garbage collection program, but receives funding from the County to operate the collection of solid waste. In FY 08-09, the town spent \$62,736 and managed 829 tons.

Caswell Beach

The Town of Caswell Beach provides a second curbside solid waste collection during the summer

months for the single family residences along Caswell Beach Road and the multi-family areas only. Caswell Beach also provides curbside recycling collection for residents throughout the year, and a drop-off container for cardboard at the town hall. During the summer season (June – August), property owners of residences along Caswell Beach Road and in the Caswell Dunes condominiums can also opt for a “roll-back” service whereby the trashcan will be rolled back to the house after collection for an additional fee. Caswell Beach also provides a free yard waste pickup (announced annually in the Spring and Fall). In FY 08-09, Caswell Beach managed 114 tons of recyclables and spent \$25,687.33 on the recycling program.

Holden Beach

The Town of Holden Beach provides a second curbside solid waste collection and curbside yard waste collection for approximately 2,120 households. Holden Beach also provides a drop-off recycling center for town residents. In FY 08-09 the town paid \$96,818.30 for these services.

Leland

Leland provided a weekly curbside collection of commingled recycling and a drop off site for residential yard debris in FY 08-09. The recycling program started in February 2009. They serviced 5409 residential units at a cost of \$83,015 for recycling and \$6,825 for yard debris. They collected 284 tons of recyclables and 68 tons of yard debris during FY 08-09.

Oak Island

Oak Island provides a second weekly curbside garbage collection during the summer. The Town also provides special curbside collections of yard debris, white goods, brown goods, and recyclables. In FY 08-09, the Town provided these services for 7,888 households at a cost of \$387,564.17.

Navassa

The Town of Navassa does not provide any solid waste services for their residents as of FY 08-09.

Northwest

The Town of Northwest does not provide any solid waste service for their residents as of FY 08-09.

Ocean Isle Beach

The Town of Ocean Isle Beach provided additional curbside solid waste collection and yard waste pick-up for 2,094 households in FY 08-09. Ocean Isle Beach also provides a drop-off recycling site for these households. Ocean Isle expended \$211,222.05 on these programs in FY 08-09.

Sandy Creek

Sandy Creek does not provide solid waste services for their residents as of FY 08-09.

Shallotte

The Town of Shallotte provides curbside recycling collection for 874 households. Shallotte spent approximately \$22,621.05 in FY 08-09 to provide this contracted service.

Southport

Southport provided curbside yard waste collection and biweekly recycling services for 1,589 households in FY 08-09 for a cost of \$88,494.27.

St. James

St. James provides a centralized cardboard recycling container for their residents. The Town also contracts with Waste Industries for weekly curbside recycling service. A “Cans for Kids” container is centralized for collection of aluminum cans where proceeds go to graduates at West and South Brunswick High Schools.

Sunset Beach

Sunset Beach provides a second curbside solid waste collection from May – September for town residents who live on the island or reside in Sea Trail. The Town also provides curbside yard waste collection and a drop-off recycling collection container for residents. In FY 08-09, Sunset Beach provided these services to 1,985 households at a cost of \$71,083.75.

Varnamtown

Varnamtown does not provide solid waste services to their residents as of FY 08-09.

Description of Financing Methods:

The current Brunswick County solid waste management program is funded through the general tax fund and from tipping fees. Part of the costs for white goods and scrap tires are paid for through the taxes levied by the state.

Assessment of Financing Methods:

County Assessment: The majority of the County's solid waste management program is funded from the general tax fund. However, this program is now supported by the collection of tipping fees. With the rapid growth of Brunswick County, it was known that it would be difficult to fund the current program through the general tax fund. Each year, the budget is evaluated and household charges are considered to help support the program.

The County recognizes that the revenue received from state tax reimbursements may soon change. When this happens, the County will be responsible for funding the management of these materials on its own.

Part VIII. FACILITIES AND RESOURCES AVAILABLE THROUGH PRIVATE ENTERPRISE

Brunswick County and all municipalities use privately operated companies for hauling solid waste and collecting recyclables. Brunswick County operates a C&D Landfill, but uses a privately operated disposal facility. Private consultants are often used as well. In addition, the county contracts with private companies to provide services such as grinding yard waste and tire collection.

Brunswick County uses a combination of publicly and privately operated programs and anticipates this will continue.

Appendix A

Resolutions from all Participating Entities

Appendix B

Copy of Notice for Public Meeting

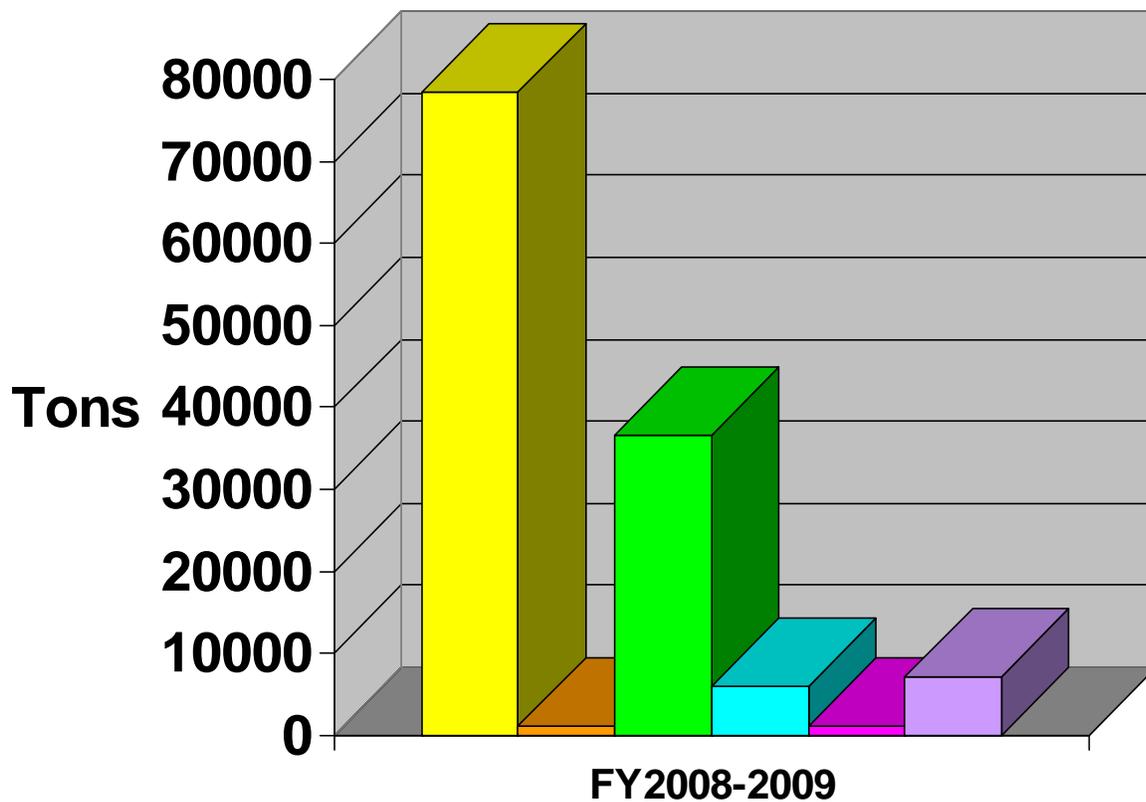
Appendix C

Map of Facilities and Disposal Sites

Brunswick County FY 2008-2009 Waste Characterization Chart Appendix D

Waste

Characterization Chart



Appendix E

Waste Reduction Goal Sheet

**WASTE REDUCTION GOAL SHEET
N.C. LOCAL GOVERNMENT TEN YEAR
SOLID WASTE MANAGEMENT PLAN**

Local government name: County of Brunswick

Previously established FY 2010-2011 waste reduction goal 5%

After considering your government’s current and projected solid waste activities, resources, population and economic growth, will the FY 2010-2011 waste reduction goal change? Yes

If Yes, what is the revised FY 2013-2014 waste reduction goal? 12%

Establish a new FY 2018-19 waste reduction goal: 15%

WASTE REDUCTION CALCULATIONS

To provide 10 years of solid waste management planning, as per General Statute 130A-309.09A(b), waste reduction goals are updated. Use the following chart to determine the tonnages needed to manage, without land filling, to meet waste reduction goals for FY2018-19.

CALCULATIONS	FY 2013-14	FY 2018-19
1) Baseline year (FY 1991-92) per capita disposal rate	1.48	1.48
2) Proposed solid waste reduction goals	12%	15%
3) Targeted per capita disposal rate based on waste reduction goals (subtract line 2 from 1.0, then multiply the result by line 1)	1.30	1.26
4) Projected population (County figure from US Census Bureau projections)	128,691	146,227
5) Projected annual tonnage for disposal at baseline per capita disposal rate (multiply line 1 by line 4)	190,463	216,416
6) Targeted annual tonnage for disposal at targeted per capita disposal rate (multiply line 3 by line 4)	167,298	184,246
7) Targeted annual tonnage to reduce (subtract line 6 from line 5)	23,165	32,170

Appendix F

Planning Element Sheets

PLANNING ELEMENTS

NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
Circle appropriate element **PLANNING YEARS 2009 through 2019**

Reduction

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
Distribute junk mail reduction packets.	Source reduction program with major companies.	Lack personnel needed to accomplish this goal.	Implement a collection of leftover food from the beach rentals and donate it to food pantries.	June 2011	10 tons/year
Enviroshopping program with Cooperative Ext.	Encourage school program of non-disposable food & drink containers.	Lack personnel needed to accomplish this goal.	Encourage school program of non-disposable food & drink containers.	June 2011	10 tons/year
Presented a show called "The Magic of Recycling" to all primary and elementary schools.	Encourage offer vs. serve program at County Schools.	Lack personnel needed to accomplish this goal.	Source reduction program with major companies.	June 2011	30 tons/year
Purchase a signature pad for the landfill tickets to reduce the amount of paper used.			Bring back the recycling show to primary and elementary schools.	June 2011	

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
Circle appropriate element **PLANNING YEARS 2009 through 2019**

Collection

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
Eliminate unmanned collection sites for solid waste. Implement collection fees at the four Conv. Sites and at the C&D landfill/Transfer station to discourage out of County waste.	Add 8 manned collection sites.	Changed collection program to curbside collection.			

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
 Circle appropriate element **PLANNING YEARS 2009 through 2019**

Recycling & Reuse

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
<p>Added 8 new recycling centers to the County's public parks.</p> <p>Started a rechargeable battery and cell phone recycling program.</p> <p>Started a Swap Shop at the County's Landfill.</p> <p>Added collection of cardboard to the recycling centers at the county's conv. Sites and Landfill.</p> <p>Switched all recycling centers to commingled containers.</p> <p>Increased plastic recycling collection to include plastics #1 through #7.</p> <p>Implement a commingled recycling program in all Brunswick County Schools.</p> <p>Establish a year round electronics collection site.</p>	<p>Add 8 manned recycling collection sites at new convenience sites.</p> <p>Implement the Business Recyclers Award.</p> <p>Bald Head Island Blue Bag recycling program.</p>	<p>The new convenience sites were not built because the Solid Waste program changed to curbside collection.</p> <p>Lack the personnel needed to accomplish this goal.</p> <p>Program changed when the County started providing curbside collection.</p>	<p>Implement the Business Recyclers Award.</p> <p>Implement a school recycling poster contest.</p>	<p>June 2011</p> <p>Sept. 2011</p>	<p>N/A</p> <p>N/A</p>

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
 Circle appropriate element **PLANNING YEARS 2009 through 2019**

Composting and Mulching

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
<p>At the Landfill untreated lumber is now combined with yard debris for mulching.</p> <p>Calabash started a curbside collection of yard debris once per year and a drop off site three times per year.</p> <p>Long Beach implemented a curbside collection of yard debris.</p> <p>Implement a composting program at two Brunswick County Schools.</p>	<p>Set up a permanent compost demonstration site in conjunction with Cooperative Extension Department.</p> <p>Raffle off back yard composting bins.</p> <p>Encourage large generators of wood to grind or mulch on site.</p> <p>Give composting bins and composting instructions to 100 Brunswick County Residents.</p>	<p>May consider this for future programming, but there is currently a lack of interest and personnel to accomplish this goal.</p> <p>Lack of funding needed to accomplish this goal.</p> <p>Lack personnel needed to accomplish this goal.</p> <p>Lack of funding.</p>			

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
Circle appropriate element **PLANNING YEARS 2009 through 2019**

Incineration with Energy recovery

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
None	None		None		

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
 Circle appropriate element **PLANNING YEARS 2009 through 2019**

Incineration without Energy recovery

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
None	None		None		

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
 Circle appropriate element **PLANNING YEARS 2009 through 2019**

Disposal

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
Obtained a permit for a C&D Landfill Extended C&D permit and landfill area. Constructed a transfer station.			Continue using Transfer Station until the end of the contract with Waste Industries. Evaluate options prior to ending contract.	2014	

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
 Circle appropriate element **PLANNING YEARS 2009 through 2019**

Education with the Community and Through Schools

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
<p>Visit schools upon request for recycling education. Give tours of Landfill upon request.</p> <p>Created new recycling brochure with all County recycling programs.</p> <p>Created new Solid Waste brochure.</p> <p>Begin a vermicomposting program at 2 elementary schools in the county and educate students of the benefits of composting.</p> <p>Attend community events and festivals to distribute educational material.</p>	<p>Set up a demonstration site for educational purposes.</p>	<p>Lack of resources necessary to accomplish this goal.</p>	<p>Set up a demonstration site for educational purposes.</p> <p>Visit more schools for recycling education.</p>	<p>June 2016</p> <p>June 2011</p>	

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
Circle appropriate element **PLANNING YEARS 2009 through 2019**

Special Waste

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
<p>Store tires in a trailer instead of stock piling them.</p> <p>Set up a program with Interstate Batteries to collect lead-acid batteries at the Landfill.</p> <p>Started used oil and antifreeze collection.</p> <p>Hold bi-annual HHW Collection Days.</p> <p>Started a rechargeable battery and cell phone recycling program.</p> <p>Start a latex paint collection.</p> <p>Start a collection for old fuel.</p> <p>Establish a year round electronics collection site.</p> <p>Begin a carpet recycling program.</p>	Construct shelter for tire trailer.	Lack of funding needed to complete this goal.	<p>Construct shelter for tire trailer.</p> <p>Advertise the HHW collections more so that there is greater participation.</p> <p>Build shelter for the collection of electronics.</p>	<p>June 2013</p> <p>April 2012</p> <p>June 2010</p>	

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
Circle appropriate element **PLANNING YEARS 2009 through 2019**

Illegal Disposal/Litter

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
<p>Periodically re-advertise the "CLEAN-IT" number in local papers.</p> <p>Develop a more stringent Solid Waste Management Ordinance.</p> <p>Give presentations to schools and civic groups regarding the dangers and other negative effects of littering.</p>	<p>Send out invitations to organizations for Adopt-a-Highway programs.</p>	<p>Lack of personnel needed to accomplish this goal.</p>	<p>Send out invitations to organizations for Adopt-a-Highway programs.</p>	<p>June 2011</p>	

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
Circle appropriate element **PLANNING YEARS 2009 through 2019**

Purchasing Recycled Products

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
Buy recycled products for "goodies" given out at schools and events.	Establish a policy to buy recycled products and recycled paper.	Did not receive the grant applied for with the NCDPPEA. Lack of funding and personnel to pursue this goal.	Educate school students and other citizens of the importance of purchasing recycled products.	June 2011	

PLANNING ELEMENTS
NC LOCAL GOVERNMENT 10 YEAR SOLID WASTE MANAGEMENT PLAN
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Disaster Response

COMPLETED ACTIONS	INCOMPLETE ACTIONS		NEW/REVISED ACTIONS		
<i>KEY ACTIONS</i>	<i>KEY ACTIONS</i>	<i>WHY INCOMPLETE?</i>	<i>KEY ACTIONS</i>	<i>DATE DUE</i>	<i>ESTIMATED TONS DIVERTED IN 10TH YEAR</i>
Contracted Unified Recovery Group, LLC to manage disaster debris.			Continue contract with Unified Recovery Group, LLC to manage disaster debris.	June 2012	

Appendix G

Miscellaneous Supporting Data