

June 3, 2009

Honorable Jimmy Burnsed
Chairman, Bryan County Commission
Post Office Box 430
Pembroke, Georgia 31321-0430

Dear Chairman Burnsed:

We have received notification that Bryan County and the Cities of Pembroke and Richmond Hill has adopted the 2007 - 2017 Solid Waste Management Plan that meets the Minimum Planning Standards and Procedures for Solid Waste Management. Therefore, Bryan County and the Cities of Pembroke and Richmond Hill have maintained eligibility for solid waste permits, grants and loans.

As you have experienced, in addition to proper and thorough long-range planning, effective solid waste management requires the ability to adapt when circumstances indicate that such action is necessary. Through continued review, and revision when necessary, solid waste planning provides your local government with more control over its destiny and assists you in dealing more effectively with both short-term and long-term management decisions. We commend you for your hard work and dedication.

Sincerely,


Mike Beatty
Commissioner

MB/jk

cc: Allen Burns, Executive Director, Coastal Georgia Regional Development Center

June 3, 2009

Honorable Judy Cook
Mayor, City of Pembroke
Post Office Box 130
Pembroke, Georgia 31321-0130

Dear Mayor Cook:

We have received notification that Bryan County and the Cities of Pembroke and Richmond Hill has adopted the 2007 - 2017 Solid Waste Management Plan that meets the Minimum Planning Standards and Procedures for Solid Waste Management. Therefore, Bryan County and the Cities of Pembroke and Richmond Hill have maintained eligibility for solid waste permits, grants and loans.

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Sincerely,


Mike Beatty
Commissioner

MB/jk

cc: Allen Burns, Executive Director, Coastal Georgia Regional Development Center

Sonny Perdue
Governor

 Georgia™ **COPY** Mike Beatty
Commissioner
Department of
Community Affairs

June 3, 2009

Honorable Richard Davis
Mayor, City of Richmond Hill
Post Office Box 250
Richmond Hill, Georgia 31324-0250

Dear Mayor Davis:

We have received notification that Bryan County and the Cities of Pembroke and Richmond Hill has adopted the 2007 - 2017 Solid Waste Management Plan that meets the Minimum Planning Standards and Procedures for Solid Waste Management. Therefore, Bryan County and the Cities of Pembroke and Richmond Hill have maintained eligibility for solid waste permits, grants and loans.

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Sincerely,


Mike Beatty
Commissioner

MB/jk

cc: Allen Burns, Executive Director, Coastal Georgia Regional Development Center



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Solid Waste Management Plan

**Bryan County
City of Pembroke
City of Richmond Hill**

March, 2009

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Section 1 Introduction

1.1 Define Planning Area

This multi-jurisdictional plan covers unincorporated Bryan County as well as the Cities of Pembroke and Richmond Hill. See Appendices for resolutions from the County and each municipality adopting this Solid Waste Management Plan. The purpose of this plan are as follows:

1. Provide an inventory of the county's waste characterization, collection programs, disposal rates and methods, waste reduction programs, public education and involvement programs;
2. Provide an assessment of the county's programs for waste collection, disposal, reduction, education and public involvement;
3. Serve as a planning tool to improve public services in the areas of solid waste collection, disposal, reduction, education, and public involvement; and
4. Set goals for program improvement and waste reduction goals as set by the State of Georgia in the Georgia Solid Waste Management Plan.

This plan has been completed in accordance with the Georgia Comprehensive Solid Waste Management Act of 1990 as well as the Minimum Planning Standards for Solid Waste Management adopted by the State of Georgia in 1994. In addition, the template and guidelines for developing local government solid waste management plans developed for the State of Georgia in 2008 is used as guidance for the development of this document.

1.2 Identify Person Responsible for the Plan

The person responsible for this update to the Solid Waste Management Plan is Brooke Carney.

Brooke Carney
1221 East Hampton Drive
Statesboro, GA 30461
T,F: (912) 587-4080
E: brooke_carney@hotmail.com

Any questions regarding the plan or requests for additional information can be directed to Mrs. Carney or the contacts listed below, which represent each jurisdiction covered in this plan.

Bryan County Board of Commissioners

4 | Bryan County, City of Pembroke, City of Richmond Hill

Phillip Jones, County Manger
P.O. Box 430
Pembroke, GA 31321
(912) 653-3819

City of Pembroke
Wynn Carney, City Planner
P.O. Box 130
Pembroke, GA 31321
(912) 653-4413

City of Richmond Hill
Steve Scholar, Planning and Zoning Director
P.O. Box 250
Richmond Hill, GA 31324

1.3 Overview of the Area Covered in the Plan

1.3.1 Planning Area

Bryan County is located in southeast Georgia in the Ogeechee River watershed. It is located approximately 200 miles to the southeast of Atlanta at Latitude 32° 10'N and Longitude 081° 27'W.

The total area included in this plan covers approximately 442 square miles. The relative location of Bryan County as well as the municipalities located within the county is shown on the locality maps below. Bryan County's geography is unique in that the county is split into two parts by Fort Stewart Army Base. The northwestern area of the county and Pembroke are separated from the southeastern part of the county and Richmond Hill by the base.

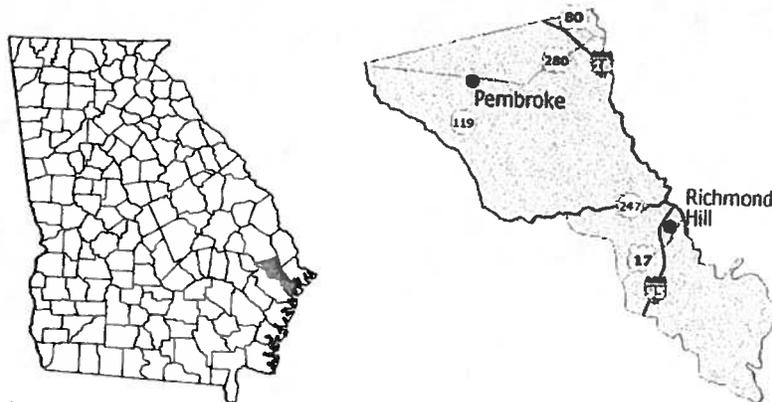


Figure 1.1 Relative location of Bryan County within Georgia and locations of cities and major highways and in Bryan County.

1.3.2 Topographic Information

Bryan County is located along the coast of Georgia and has geography typical of Georgia's coastal communities. The geographical characteristics of the western and inland portion of the county are typical of the Coastal Plain region and include lowland bottoms as well as higher sand hill areas. The eastern and coastal region of the county also includes typical coastal plain characteristics and is defined by large areas of wetlands and marsh. The county's coast is protected from open seas by several barrier islands. Bryan County's geography can be classified collectively as characteristic of the Atlantic Flatwoods region.

Bryan County is located completely within the Ogeechee River basin. The County is bordered on the northwest side by Bulloch County and by Effingham, Chatham and Liberty Counties on the north and south sides, respectively. The Ogeechee River forms Bryan County's northern border and the Canoochee River forms a portion of its southern border until flowing into the Ogeechee River. Bryan County's primary water source is the Floridian Aquifer and the water table is typically close to the surface. Drainage can pose problems because of the county's flat topography, and sandy soils typical of the area aid in drainage.



Figure 1.2 Bryan County Topographical Map (Source: Bryan County GIS Office)

1.3.3 Population

The table below represents population projections for each entity covered by this plan over a ten year period. Baseline population figures were taken from the most recent U.S. census data available. Projections for future population in 2010 and 2015 were taken from a study conducted for the coastal Georgia Regional Development center by Georgia Institute of Technology titled *Georgia Coast 2030*. All other figures are estimations based on projected growth.

Table 1.1 Population Projections

	Base Year	0	1	2	3	4	5	6	7	8	9	10
	2007*	2008	2009	2010**	2011	2012	2013	2014	2015**	2016	2017	2018
Unincorporated Bryan County	17827	18644	9462	20278	20694	21211	21526	21943	22359	22550	22701	23118
Pembroke	2499	2858	3217	3576	3649	3722	3796	3869	3943	4016	4089	4162
Richmond Hill	9806	10320	10834	11349	11582	11815	12048	12281	12513	12514	12747	12980
TOTAL	30132	31822	33513	35203	35925	36748	37370	38093	38815	39080	39537	40260

Source: Georgia Coast 2030, Georgia Institute of Technology

*denotes most recent estimate available from U.S. Census Bureau

**Figures taken directly from Georgia Coast 2030. All others are estimates provided for the purpose of this planning document.

1.3.3.1 Seasonal Population Variation

Approximately 12,000 additional people, including active duty and family members will be coming to Fort Stewart in the next two to three years. Additional civilian personnel are also projected to arrive at Fort Stewart within this time period. This influx of people will have significant impacts on Solid Waste Management in Bryan County, Pembroke and Richmond Hill.

The following events create significant waste and are held in Richmond Hill annually. The Seafood Festival is held yearly and attracts about 30,000 people. The July 4th Festival is also held yearly and attracts about 3,000 people. A Christmas Parade and related weekend activities is held yearly and attracts about 1,000 people.

Pembroke also hosts several annual events that create a significant amount of solid waste. These include the annual Christmas parade, which attracts approximately 1,000 people and the annual fall festival, formerly the balloon festival, which attracts approximately 2,000 people.

1.3.3.2 Number of Households in planning area

Because of the rural nature of Bryan County, recent data on the number of households in Pembroke and Richmond Hill is not available. The most recent estimate for the total number of households in Bryan County available from the U.S. Census Bureau is 9,308 units, which reflects 2006 estimates. The most recent data available for Pembroke and Richmond Hill is available through the U.S. Census Bureau and is dated 2000. The Census Bureau reported Pembroke having 909 households in 2000 and reported Richmond Hill having 2573.

Sources: U.S. Census Bureau, GeorgiaPlanning.com

1.3.4 Economic Activity

1.3.4.1 By SIC Code

Table 1.3 Economic Activity by SIC Code

SIC Code	Business Name	Jurisdiction	Number of Employees
2711/Newspaper Publishing	The Bryan County Times	Pembroke	4
2653/Corrugated Boxes	Express Packaging, Inc.	Pembroke	41
2411/Logging	Gator Enterprises	Pembroke	8
2411/Logging	Oliff Logging	Ellabell/County	4
3081 / PVC Films	Orafol USA, Inc.	Ellabell/County	60
2891 / Adhesive Tapes			
3272 / Concrete Stepping Stones	Southern Precast Concrete	Ellabell/County	2
3272 / Concrete Fences			
3272 / Concrete Precast Slabs			
3272 / Concrete Specialty Pdts			
3272 / Picnic Tables	T&O Concrete Products, Inc	Ellabell/County	3
3272 / Septic Tanks			
3272 / Fence Posts			
3451 / CNC Machining	Bilmar CNC, Inc.	Richmond Hill	14
3599 / Miscellaneous Manufacturing			
2711 / Weekly Newspaper	Bryan County News	Richmond Hill	6
2411/Logging	J. C. Cox Logging Inc	Richmond Hill	8
3556 / Commercial Meat Slicers	Hobart Corp.	Richmond Hill	150
3556 / Commercial Food Cutters			
3556 / Commercial Vegetable Slicers			
3556 / Commercial Meat Tenderizers			
3281 / Cultured Marble Products	Marble Bath and Accessories	Richmond Hill	20
3273 / Ready-Mixed Concrete	Richmond Hill Ready Mix	Richmond Hill	8
TOTAL FOR BRYAN COUNTY			328

Source: GeorgiaFacts.net

1.3.4.2 Number of Employees by Sector

Table 1.4 Number of Employees by Sector in Planning Area

Goods Producing	
Agriculture, Forestry, and Fishing	7
Construction	135
Manufacturing	18
Service producing	
Wholesale Trade	22
Retail Trade	70
Transportation, warehousing and Utilities	30
Services	305
Other	5
Government	
Federal	13
State	14
Local	16
Total for all industries	635

Source: Georgia Department of Labor

Section 2 Waste Disposal Stream Analysis

2.1 Inventory of Waste Disposed

Waste disposed of by Bryan County and the Cities of Pembroke and Richmond Hill is described in the table below. In all three jurisdictions, collection services are provided by a private hauler. Waste disposed of by Richmond Hill and collected by Waste Management is taken to Superior Landfill. Waste disposed of in Pembroke and the unincorporated areas of the county is collected by Republic Waste and taken to Broadhurst Environmental Landfill. In 2007, waste was collected by Republic waste in all three jurisdictions. Because Republic Waste has not been able to provide accurate local data, estimates for 2007 are taken from the Georgia Solid Waste Management Plan and are based on the projection of 6.80 pounds per person per day.

Based on state estimates for average waste disposed in 2007, Bryan Count generated a total of approximately 37,393.81 tons of solid waste in 2007.

2.1.1 Waste Characterization

Data collected by the State of Georgia for the Statewide Waste Characterization Study was used to develop the table below. The data represents waste grouped by material in the Coastal Georgia region. Field sampling was conducted at Superior Landfill in Savannah, Georgia and adjusted for Bryan County based on population and employment trends.

Waste characterization data provides detailed information about the materials that comprise local waste streams. This data is useful for solid waste planning in that it allows communities to anticipate the amount of municipal solid waste disposed, document anticipated tonnages, determine the quantity and type of material available for recovery, to measure the effectiveness of existing recovery programs and to plan for future recovery programs, and to predict the sizes and types of solid waste facilities that will be needed in the near future. (Georgia Department of Community Affairs)

The statewide study showed that in the coastal area of Georgia, approximately 39% of the waste stream is paper. Of the paper disposed, 31.4% is recyclable. Plastic makes up 16% of the waste stream, and almost half of the plastic disposed of in landfills is film plastic. Food waste makes up 11.1% of waste disposed. Other amounts can be seen in Table 2.2 below. Based on the data collected in the statewide study, approximately 47% of waste disposed could be diverted by recycling programs currently operating or available to the areas covered in this plan.

Table 2.2 Waste Composition Detail for Coastal Georgia by weight (annual)

<u>Category</u>	<u>Material</u>	<u>Average Composition (%)</u>
Paper	Newspaper	1.76%
Paper	Corrugated Cardboard	11.85%
Paper	Office	3.57%
Paper	Magazine/Glossy	1.88%
Paper	Paperboard	5.64%
Paper	Mixed (Other Recyclable)	2.74%
Paper	Other (Non-recyclable)	10.73%
	Total Paper	38.18%
Plastic	#1 PET Bottles	1.74%
Plastic	#2 HDPE Bottles	1.08%
Plastic	#3-#7 Bottles	0.46%
Plastic	Expanded Polystyrene	1.85%
Plastic	Film Plastic	9.13%
Plastic	Other Rigid Plastic	4.23%
	Total Plastic	18.49%
Glass	Clear	1.42%
Glass	Green	0.39%
Glass	Amber	1.20%
Glass	Other	0.35%
	Total Glass	3.35%
Metal	Steel Cans	1.13%
Metal	Aluminum Cans	0.43%
Metal	Other Ferrous	2.66%
Metal	Other Non-Ferrous	0.78%
	Total Metal	5.00%
Organic	Yard Waste	2.77%
Organic	Wood (non-C & D)	1.16%
Organic	Food Waste	10.05%
Organic	Textiles	5.03%
Organic	Diapers	2.90%
Organic	Fines	4.29%
Organic	Other Organics	0.80%
	Total Organic	27.00%
C & D	Drywall	0.22%
C & D	Wood	6.09%
C & D	Inerts	0.00%
C & D	Carpet	0.71%

C & D	Other C & D	0.00%
	Total C & D	7.02%
Inorganics	Televisions	0.00%
Inorganics	Computers	0.12%
Inorganics	Other Electronics	0.52%
Inorganics	Tires	0.02%
Inorganics	HHW	0.08%
Inorganics	Other Inorganics	0.22%
	Total Inorganics	0.96%
	Total	100.00%

Source: Georgia Statewide Waste Characterization Study

2.1.2 Unique Conditions and/or Seasonal Variations

Bryan County is geographically divided into two regions by Fort Stewart. Because of this unique condition, solid waste management and planning is somewhat difficult. The duplication of efforts in the two areas increases operating costs while decreasing program efficiency. This division of resources limits the capabilities of managing the county's solid waste program.

The influx of troops to Fort Stewart Army Base will have a significant impact the projected population growth for Pembroke, Richmond Hill and the unincorporated areas of the county. The U.S. Department of Defense estimates 12,000 troops, as well as their families, will be moving into the four county region surrounding the military base, which includes Bryan, Liberty, Long, and Tatnall Counties.

2.1.3 Waste Generating Disasters

Although difficult to predict, natural disasters, such as tornadoes, flooding, hurricanes, wild fires, and ice storms, have the potential to tremendously increase the amount of waste generated in Bryan county and the Cities of Richmond Hill and Pembroke. The sections of this Solid Waste Management Plan on collection and disposal outline the approach that the County and Cities would take to deal with waste resulting from disasters.

2.2 Projections of Waste to be Disposed

The tables below outline the projected amount of waste to be disposed by Bryan County, as well as the jurisdictions lying within the county, over the next ten years. The baseline year used is the year for which local data is available. Population projections are based on the Georgia Coast 2030 study as well as the U.S. Census Bureau estimations. The per capita per day figures are taken from data in the Georgia Solid Waste Plan. Because local data for disposal amounts was unavailable at the time this

plan was written, state figures are used. In the event that local data becomes available, the figures and projections should be adjusted to reflect local disposal rate trends more accurately.

Table 2.3 Projected waste to be disposed with and without reduction goals in place

Year	base year (1992)	2007	2008	2009	2010	2011	2012
population	16,064	30132	31822	33513	35203	35925	36748
amount per capita per day (pounds)*	4.28	6.8	6.89	6.99	7.08	7.18	7.28
TOTAL TONS AT HISTORIC DISPOSAL RATE	12,538	37,393.80	40,013.78	42,751.70	45,485.80	47,074.32	48,823.40
amount per capita per day after reduction goal	N/A	6.8	6.68	6.64	6.58	6.53	6.48
TOTAL TONS AFTER REDUCTION GOAL	N/A	N/A	38794.2	40611.05	42273.52	42812.72	43458.18
PERCENT REDUCTION			3%	5%	7%	9%	11%

Year	2013	2014	2015	2016	2017	2018
population	37370	38093	38815	39080	39537	40260
amount per capita per day (pounds)*	7.37	7.47	7.56	7.66	7.75	7.85
TOTAL TONS AT HISTORIC DISPOSAL RATE	50,196.33	51,931.23	53,553.10	54,261.43	55,920.14	57,677.48
amount per capita per day reduction goal	6.41	6.35	6.28	6.21	6.12	6.05
TOTAL TONS WITH REDUCTION GOAL	41875.95	44145.03	44485.87	44290.34	44158.88	44452.07
	13%	15%	17%	19%	21%	23%

Sources: Georgia Coast 2030, Georgia Solid Waste Management Plan, Bryan County Solid Waste Management Plan (1992, 1999)

2.3 Per Capita MSW Disposal Reduction Goal

The table above also shows the base year as being the year of Bryan County's previous solid waste plan. Because the per capita waste rate has increased significantly between

the base year and the current year, current year figures are used to calculate the 23% waste reduction goal over the next ten years. In order to reach 23% reduction goal by 2018 per capita waste, gradual reduction goals have been established in the table above.

Section 3 Waste Reduction Element

3.1 Inventory of Waste Reduction Programs

Waste reduction programs and efforts vary from jurisdiction to jurisdiction. Because of this, each area covered by this plan is described separately. The City of Pembroke provides curbside and drop-off recycling programs but no program is in place for collection of yard trimmings. The City of Richmond Hill provides no recycling programs but does provide yard trimmings collection as well as free mulch to residents. Bryan County provides recycling services at its two drop-off centers.

3.1.1 Source Reduction

The City of Richmond Hill has an ongoing composting program that operates from April through September. The compost is provided free of charge to residents of the city and is available at J.F. Gregory Park. The compost program is advertised to the city residents on the city website, through signage in the park and through newspaper articles. The material used for composting comes from Christmas trees that are chipped and also through yard waste that is picked up weekly throughout the city. A program to inform and expand the composting program is ongoing. We also offer information about composting and yard trash pickup in a full-color pamphlet passed out by the city's water department.

Bryan County discourages the unnecessary use of paper and printing. The standard means of communication for County business is done electronically.

No such programs exist in Pembroke.

3.1.2 Recycling

Table 3.1 Existing Recycling Programs in Unincorporated Bryan County

Type of Program	Population served	operated by	materials accepted	tons diverted (FY 2007)
Drop-off		Republic Waste	corrugated cardboard mixed paper newsprint	Data not

Solid Waste Management Plan 2007-2017

Recycling Centers			#1 PET plastic #2 HDPE plastic aluminum steel Glass, mixed	available
Donation Centers	Entire Population	Goodwill Industries drop-off	clothing and household items	N/A
Buy Back Center	Customers of businesses	Napa Auto Parts AutoZone Advanced Auto Parts Fortune Recycling Co. (12.5 miles)	auto parts auto parts auto parts scrap metal	N/A N/A
Grocery Bag deposit		Kroger	#2 and #4 film plastic #2 and #4 film plastic	N/A N/A

Table 3.2 Existing Recycling Programs in the City of Pembroke

Type of Program	Population served	operated by	materials accepted	tons diverted (FY 2007)
Residential Curbside Pick-up (co-mingled Collection)	Available to Entire population	City of Pembroke	corrugated cardboard mixed paper newsprint #1 PET plastic #2 HDPE plastic aluminum steel Glass, mixed	N/A N/A N/A N/A N/A N/A N/A
Donation Centers	Southeast Georgia Region	Goodwill Industries drop-off locations within 10 miles, house calls made to Pembroke area	clothing and household items	N/A
Buy Back Center	Customers of businesses	Napa Auto Parts Gann Metal, Jody Price	auto parts scrap metal	N/A N/A
Unstaffed drop-off center	All Residents	City of Pembroke, SP Newsprint	newsprint	

Table 3.3 Existing Recycling Programs in the City of Richmond Hill

Type of Program	Population served	operated by	materials accepted	tons diverted (FY 2007)
Donation Centers	Entire Population	Goodwill Industries drop-off Note: Salvation Army and Habitat for Humanity donation centers located in nearby communities	clothing and household items	N/A
Buy Back Center	Customers of businesses	Napa Auto Parts Autozone Advanced Auto Parts Fortune Recycling Co. (12.5 miles)	auto parts auto parts auto parts scrap metal	N/A
Grocery Bag deposit		Kroger	#2 and #4 film plastic #2 and #4 film plastic	N/A N/A

The city of Richmond Hill does not have an ongoing curbside recycling pickup program. A program did exist in the city up until several years ago but was terminated for a variety of reasons. First, participation in the program was extremely low. At the end, very few residents were putting out the recycle bins for weekly pickup. At that time, a decision by city management was made that the recycling program was not financially viable and the decision to terminate the program was made. Also, at the time program termination was made, the only local recycling company took only newspaper and cardboard products. The city is not opposed to relooking at the program should public support become evident. That, coupled with additional streams of recycling centers available, could again make it a viable program in Richmond Hill. If that decision is made by city management, a dialogue could be opened with Waste Management, the company that does the weekly trash pickups in the city, to begin curbside pickup of recyclables.

In addition to the programs outlined above for all three jurisdictions, several private recycling companies operate within the county using independent contracts. For example, several commercial waste generators contract with Pratt, SP, and others for collection of cardboard, newsprint, etc. These private, independent contracts, while

relevant to the community overall waste reduction efforts, are not included in the charts above because of the unpredictable nature of short-term independent contracts.

3.1.2.2 Recycling Facilities

Bryan County owns two drop-off recycling facilities. The two facilities are located on both the northwest and southeast ends of the county offering residents in both the Pembroke and Richmond Hill areas the opportunity to recycling some materials. Both centers are operated by Republic Waste and material is source separated. The center on the north end is located in the Back Creek community on U.S. Highway 280, and the center in the southeastern, or coastal, area of the county is located on Georgia Highway 144 SPUR. Materials accepted free of charge at these facilities include cardboard, mixed paper, plastics, and scrap metal. In addition, a pay-as-you-throw fee is charged for bulk waste and yard debris. Household garbage and materials requiring special handling (electronics, batteries, etc) are not accepted at either facility.

The City of Pembroke owns and operates a recycling transfer station. Material collected in the curbside program is single-stream. Manual labor is used to separate the material. The material is then transported loose to either one of the Bryan County drop-off recycling centers or to Fort Stewart in Hinesville. In addition, two dumpsters – one for cardboard and one for newsprint – are located at the transfer station and are serviced by private collectors.

The City of Richmond Hill has no recycling facilities available but will soon be able to take advantage of nearby Regional Recycling Hubs being established and planned to open in Savannah and Statesboro in 2009.

3.1.3 Yard Trimming Programs and Facilities

Bryan County offers no curbside collection of yard trimmings but provides drop-off sites within the two recycling centers located on either end of the county.

The City of Pembroke offers no curbside collection for yard waste and provides no drop-off facilities. Common practice by residents in the community is to burn or compost their yard trimmings. The City is currently in the process of purchasing a chipper, which will be used for curbside mulching as well as mulching during municipal projects.

The City of Richmond Hill offers residential curbside collection of yard trimmings. The trimmings are then mulched, composted and available to residents at no charge from the City's Tree and Parks Department.

Table 3.3 Yard Waste Programs

Program	Owner/ Operator	jurisdictions served	sector served	materials accepted	quantity	program maximum capacity	final disposition
Compost education program	Bryan County Tree Foundation	Richmond Hill, Coastal parts of Bryan County	R	N/A	N/A	N/A	residential compost
Compost education program	Bryan County Extension Office	All	R	N/A	N/A	N/A	residential compost
private tree, landscaping entities	multiple	All	I, C, R	Yard waste			Private businesses
Municipal curbside yard trimmings	City of Richmond Hill	Richmond Hill	R	leaves, wood		N/A	
Municipal drop-off yard trimmings	Bryan County	All	R	leaves, wood		N/A	Mulched, used for waste-to-energy facility (Sav)

3.1.4 Items Requiring Special Handling

Richmond Hill hosts an annual event in which residents can place any non-hazardous materials on the curb for collection. These materials are then handled and recycled by CH2mHill, who is a contractor that handles all public works activities for the city. No other such programs exist within the jurisdictions covered in this Plan.

3.2 Disaster Debris Management - Waste Reduction Strategy

In the event of a disaster, Bryan County has the primary responsibility for debris management. The emergency management plans for the City of Richmond Hill and the City of Pembroke do not address this issue. If a natural disaster or emergency situation

to interrupt the Cities' and County's normal operations for providing waste reduction and recycling services, the community has several options. The local government can negotiate with private haulers and/or recyclers in the area to accept recyclables from all jurisdictions within the county. Negotiations can include the Cities of Pembroke and Richmond Hill and Bryan County sharing the processing cost of any recyclables delivered by residents and/or commercial establishments. Another option would be to temporarily store recyclable materials in publicly owned recycling facilities/drop-off centers until normal operations can be resumed.

Because Richmond Hill has the space and equipment to operate a large scale mulching operation, they would likely take the lead role in reducing waste of limbs and other natural debris caused by a storm or disaster. Pending Pembroke's successful acquisition of a chipper, they would likely take the lead role in mulching tree, limb, and related material in the north part of the county. In addition, the county also has the option of partnering with neighboring counties, such as Bulloch, to accept tree and yard debris to their existing mulching operation. Yet another option would be to hire an outside contractor to mulch tree and limb debris that may result from a storm and/or disaster.

3.3 Assessment of Waste Reduction Programs

Bryan County, Pembroke, and Richmond Hill currently offer limited recycling options for residents and commercial establishments. Using the newly established commodity waste reduction goals set by the state of Georgia as a guide, plans to expand both the participation levels and the scope of recycling programs offered are anticipated to gain momentum over the next few years. The advancement and growth of recycling programs in nearby communities expand the options available to Bryan County and the communities within it. Bulloch County and Savannah have both recently been established as regional recycling hubs by the state of Georgia and are required to accept material from a 50 mile radius. Fort Stewart is also expanding its recycling operations further adding to Bryan County's options. Details on the expansion of recycling programs within Bryan County will be expanded on in the next short-term work plan to be developed by the jurisdictions.

State of Georgia Per Capita MSW Disposal Rate/MSW Reduction Goal					
Commodity	Actual 2004 Lbs/person	Projected 2012 Lbs/person	Projected % 2012	Projected 2017 Lbs/person	Projected % 2017
Glass	0.153	0.14	8%	0.14	8%
Paper	1.181	1	15%	0.85	28%
Metal	0.228	0.198	13%	0.186	18%

Plastic	0.663	0.56	16%	0.53	20%
Total	2.23	1.99	11%	1.71	23%

Special attention should be paid to paper recycling, as it comprises approximately 40% of the waste stream. Public education of existing collection options could greatly increase the amount of paper being recovered. In addition, paper (meaning fiber products in general) can be a source of revenue to each of the jurisdictions as there are multiple end-users for paper markets in the region.

Organic waste, and food waste in particular, comprises a significant amount of the waste stream (28%). Attention should be given to improving the existing educational and municipal composting programs.

3.4 Needs and Goals: Waste Reduction Element

Bryan County

Goal: Increase participation in drop-off recycle centers program by 25%. (Measure in tons recycled annually.)

Strategy:

- Maintain extensive hours of operation currently in use.
- Increase educational efforts targeted at community residents.
- Improve signage at recycling centers to assist with source separation.
- Expand types of materials accepted at centers.

City of Pembroke

Goal: Increase participation in voluntary curbside recycling program in City of Pembroke

Strategy:

- Take advantage of regional recycling program offered through Bulloch County. Use single stream collection method and transport unsorted material to HUB in Bulloch County.
- Improve and increase public education efforts.

City of Richmond Hill

Goal: Establish a recycling program for residential use.

Strategy:

- Form committee to explore possibilities and public demand for either a Drop-off center or curbside program,
- In the event such a program is formed, take advantage of nearby single stream processing/transfer centers set to open in 2009
- Initiate public education effort

Bryan County

Goal: Yard waste program improvement

Strategy:

- Continue operating drop-off program at low cost to residents

City of Pembroke

Goal: Establish yard waste collection/disposal program

Strategy:

- Purchase chipping machine
- Educate public on new program and importance of program
- Establish weekly curbside chipping program, residents may keep mulch

All Jurisdictions

Goal: Offer means of disposal for household hazardous waste and other items requiring special attention.

Strategy:

- Partner with private disposal company and host annual Household Hazardous Waste (HHW) and electronics collection events in conjunction with Great American Cleanup events.

All Jurisdictions

Goal: Reduce amount of organic waste going into landfill.

Strategy:

- Improve and increase educational programming about composting.
- Address feasibility of operating municipal composting program.

Section 4 Collection Element

Each jurisdiction included in this plan has a separate and different collection program for solid waste. As such, each jurisdiction is described separately in the sections below.

4.1 Inventory of Collection

Bryan County has contracted with Republic Waste, a private hauler, to provide weekly residential collection services as well as to provide collection service for two staffed drop-off centers located within the county. The staffed drop-off centers are located on opposite ends of the county to provide services to residents living in both North and Coastal Bryan County. The City of Pembroke has also contracted with Republic Waste to provide weekly residential curbside collection. Beginning in 2008, Richmond Hill's curbside collection contract was awarded to Waste Management. Prior to 2008 the contract was with Republic Waste.

Table 4.1 below describes the haulers operating in Bryan County and the Cities of Pembroke and Richmond Hill.

Hauler Name	Hauler Address	Sector Served	Jurisdiction(s) served	Arrangement
Republic Waste Services of Savannah	84 Clifton Blvd Port Wentworth, GA 31407	C, I, R	Unincorporated Bryan County	exclusive contract with local government
Republic Waste Services of Savannah	84 Clifton Blvd Port Wentworth, GA 31407	C, I, R	City of Pembroke	exclusive contract with local government
Waste Management	1809 US Highway 80 W Garden City, GA 31408	C, I, R	City of Richmond Hill	exclusive contract with local government

Table 4.1 Haulers Operating in Bryan County

Source: Interviews with government employees and haulers (July and August 2008), Georgia Environmental Protection Division

4.1.2 Contingency Strategy

In the event that the private haulers currently used by the County and each jurisdiction could not continue services, such services would be awarded to another private hauler in the area.

4.1.3 Disaster Debris Management -- Collection Strategy

In the event of a disaster, Bryan County has the primary responsibility for collecting and disposing of debris. The County owns and maintains two permitted inert landfills – one on each end of the county – which are not used regularly but would be used in the event of a disaster. The two inert landfills located at Mill Creek landfill and at Richmond Hill landfill. Both of these sites have closed MSW landfills also located on the property.

The County's emergency operation plan states that the County will contract with private vendors for waste collection on a broad spectrum (recycling, collection) in case of a disaster.

Neither Richmond Hill nor Pembroke have the equipment necessary for removing and/or collecting debris resulting from a disaster. That responsibility falls to the County and is addressed in the Bryan County emergency management plan as mentioned above.

If any of the above mentioned contingency plans are needed, it would take 24-26 hours to put one or more of them in place.

4.2 Assessment of Collection Programs

Each jurisdiction in Bryan County offers adequate collection services for garbage for both commercial and residential sectors by contracting service out to private haulers. All county residents have access to the county drop-off centers. These centers are satisfactory for the needs of the county residents but could be improved by accepting more materials for recycling and having more locations.

The City of Pembroke has a less than satisfactory curbside recycling program and has plans to improve the curbside recycling program by taking advantage of the Regional Recycling Hub under construction in Bulloch County.

The City of Richmond Hill will continue to offer weekly curbside trash collection service through its private hauler contract. The City is open to offering curbside recycling collection service should sufficient customer support be demonstrated and any additional cost of the program be borne by the user.

4.3 Inventory of Illegal Dumping/Littering

Despite ongoing efforts against it, illegal dumping and littering remains a problem in Bryan County. Although local data on illegal dumping and littering does not exist, data collected during the last state litter index survey shows Bryan County as having typical litter types and amounts of coastal communities in Georgia. (Georgia 2006 Visible Litter Survey, developed by RW Beck for the Georgia Department of Community Affairs) Most litter is negligent (70%) meaning that it is not purposefully placed on roadways. Approximately 50% of litter is found on urban freeways, such as Interstate 95, and residential roadways.

Enforcement programs to address illegal dumping and littering are in place in each jurisdiction covered in this plan. Litter and illegal dumping laws are enforced by local law enforcement agencies as well as by the local DNR law enforcement unit and Georgia State Patrol. Both Richmond Hill and Pembroke employ a code enforcement officer. The code enforcement officer for each jurisdiction enforces the local litter ordinances. In addition, road signage in all three jurisdictions is used to educate the public about local litter laws and consequences.

4.4 Assessment of Programs to Address Illegal Disposal/Dumping

Bryan County, Pembroke and Richmond Hill all have litter ordinances in place. They also all have code enforcement officers to enforce their respective litter ordinances. The programs to address litter and illegal dumping within Bryan County are sufficient and are addressing the problem. In addition, the State of Georgia has dedicated significant public education resources to address this problem available for local communities, including Bryan County, Pembroke, and Richmond Hill, to use if they so choose. Several options are available to improve the illegal dumping situation in the jurisdictions covered in this plan should they choose to further enhance their existing programs in the near future.

To enhance efforts to reduce littering and illegal dumping, all three jurisdictions have several resources available to them. The State of Georgia has made training manuals and enforcement tools available for local law enforcement agencies to use. The result of such training program would expand enforcement efforts beyond the code enforcement officers in each jurisdiction to the entire police force in those jurisdictions. In addition, public education materials, including artwork for signage and educational program materials are available from the State of Georgia. These educational materials can be used as signage on roadways to the general public or as targeted messages to youth, elected officials, businesses owners, and others. By registering for events such as the Great American Cleanup, the jurisdictions could engage the public in an active effort to reduce the problem.

4.5 Collection Needs and Goals

***Goal:** Provide residents living in all areas of the county with accessible and convenient means of properly disposing of trash and recyclables. The County and each municipality lying within the county must ensure proper collection services, whether public or private, are in place for trash and recyclables collection.*

Strategy:

- Maintain curbside trash collection service throughout county
- Maintain recycling and trash drop-off centers on north and south ends of county (add additional centers as needed by population increase and demand)
- Improve curbside recycling collection in Pembroke by partnering with the Regional Recycling Hub in Bulloch County.

- Conduct study using current data and trends to determine feasibility of offering curbside recycling collection or drop-off recycling collection in Richmond Hill.
- Continue negotiations with Fort Stewart to offer single-stream at both recycling drop-off centers
- Explore possibility of offering yard waste drop-off site or curbside collection service for City of Pembroke

Section 5 Disposal Element

As in each section of this Solid Waste Management Plan, the cities of Pembroke and Richmond Hill as well as unincorporated Bryan County are included in the disposal management plans listed in this section.

Waste generated by all three sectors* in Pembroke is disposed of at Broadhurst Landfill in Jesup, Georgia. Waste is transported to Broadhurst by Republic Waste.

Waste generated by all three sectors* in unincorporated Bryan County is also disposed of in Broadhurst Landfill and is also transported there by Republic Waste.

Waste generated by all three sectors* in Richmond Hill is disposed of in Superior Landfill and is transported there by Waste Management.

*Because collection services are offered solely by private haulers in the jurisdictions covered by this plan, information regarding the material disposed of by small, independent collection companies, such as those that offer roll-off services, is not readily available. It is assumed for the purposes of this plan that material collected by these haulers is ultimately disposed of in Broadhurst Landfill as it is the closest option available.

5.1 Inventory of Solid Waste Disposal Facilities

According to the Georgia Environmental Protection Division's list of solid waste disposal facilities, which was updated in July of 2008, there are no permitted solid waste disposal facilities within Bryan County.

5.1.1 Assurance of 10-year capacity

Please see the attached letter in Appendices E and F from Superior and Broadhurst Landfills. The landfills estimate over 10 years of capacity remaining at an annual rate of 19,225.83 tons per year and 38,451.65 tons per year respectively. The letters state that

waste coming from City of Pembroke and Bryan County will be accepted at Broadhurst Landfill and that waste coming from the City of Richmond Hill will be accepted at Superior Landfill.

5.1.2 Contingency Strategy

In the event that Superior Landfill is unable to accept material from Bryan County, one of the following methods for disposing of waste would be used. Using current transportation methods, waste would be taken to Broadhurst Landfill located in Jesup, Georgia. Other options for permanently disposing of waste include transporting it to Allendale Landfill in South Carolina or Candler County public landfill. This plan would be in effect within two business days of being needed.

5.1.3 Disaster Debris Management – Disposal Strategy

In the event of a disaster, waste would be handled using the aforementioned methods for collection and then transported to Superior and Broadhurst Landfills. County and City officials will work together to coordinate the staging, transportation and disposal of debris generated by a disaster.

In the event of a disaster that affects the north end of the county, material would be transported to the Mill Creek inert site for staging and/or disposal, which is owned by Bryan County. The City of Pembroke may also make use of the open area located at the Pembroke Industrial Park on Highway 280 should there be a need to stage debris before transporting it to the inert site or landfill.

On the south end of the county, debris would be taken to the Richmond Hill inert site located on Hwy 144 Spur to be staged and/or disposed of on site. This inert site is also owned by Bryan County. Should there be a need to stage material before taking it to the inert site Richmond Hill has the option of using space located adjacent to their waste water treatment facility.

The public will be notified by recordings on government voicemail systems, postings on government websites, signage at recycling centers and through local media.

5.2 Assessment of Disposal

Based on current capacity, the landfill currently being used for MSW has sufficient capacity to continue accepting waste over the next ten years.

5.3 Disposal Needs and Goals

Goal: Ensure sufficient disposal capacity to handle the amount of waste projected to be disposed of for the next ten years.

Strategy:

- **Richmond Hill:** Continue to transport waste to Superior Landfill in Savannah, which has guaranteed capacity for the next ten years.
- **Bryan County unincorporated and Pembroke:** Continue to transport waste to Broadhurst Landfill in Jesup, which has guaranteed capacity for the next ten years.

Section 6 Land Limitation Element

As in each section of this Solid Waste Management Plan, the cities of Pembroke and Richmond Hill, as well as the unincorporated areas of Bryan County, are included in the land limitations listed in this section.

The future land use maps for both the northern and southern ends of the county are included in the Appendix to provide a visual illustration of the relevant land limitation areas described in the sections below. In addition, figures showing the floodplains and wetlands in all three jurisdictions are also included in the appendix.

6.1 Inventory Land Areas

6.1.1 Inventory Areas with Natural Environmental Limitations

Federal, state, and county policy contain restrictions on where solid waste facilities can be sited, and, in some cases, the design required to site facilities in a specific area. Some of these restrictions are based on natural environmental land limitations. Bryan County has a diverse range of topography, soils, and planned land use areas. The paragraphs and accompanying figures below describe each of the relevant environmental limitations.

The appendix to this plan includes figures include showing floodplain and wetlands areas for Bryan County, Pembroke and Richmond Hill. These maps and others are meant to illustrate areas with environmental limitations as related to DNR rules described above as well as other limitations as related to regulations included and referenced in this plan. Specific cases of proposals for siting future solid waste facilities should follow the procedures outlined below for siting such facilities.

- **Floodplains*** – DNR Rule 391-3-4-.05 (1)(d) stipulates any solid waste landfill located within the 100-year floodplain shall not restrict the flow of the 100-year flood, reduce temporary water storage capacity of the flood plain, or result in a washout of solid waste so as to pose a threat to human health of the environment. See Figures 6.1 and 6.2 below for an illustration of floodplains in the northern and southern portions of the County as mapped by the Bryan County GIS office on behalf of all three jurisdictions.
- **Wetlands*** – DNR Rule 391-3-4-.05 (1)(e) prohibits the development of solid waste landfills in wetlands, as defined by the U.S. Army Corps of Engineers, unless evidence is provided by the applicant that use of the wetland has been permitted or otherwise authorized under all other applicable state and federal

laws and rules. See Figures 6.1 and 6.2 below for an illustration of wetlands in the northern and southern portions of the County as mapped by the Bryan County GIS office on behalf of all three jurisdictions.

- Water Supply Watersheds – DNR Rule 391-3-16-.10(7)cl requires that at any location within a small water supply watershed, new solid waste landfills must have synthetic liners and leachate collections systems.
- Groundwater recharge areas – The official code of Georgia (O.C.G.A) Section 12-8-25.2 states that no permit shall be issued for municipal solid waste landfill if any part of the site is within two miles of an area that has been designated by the EPD Director as a significant groundwater recharge area unless such municipal solid waste landfill has a liner and leachate collection system and meets any other requirements as may be established by rules and regulations of the board or pursuant to other geological considerations as may be determined appropriate by the EPD Director.
- River Corridors – DNR Rules prohibit the development of new solid waste landfills within protected river corridors.

6.1.2 Inventory Areas with Land Use Limitations

DNR Rule 391-3-4-.05(1)(a) requires that solid waste facility sites must conform to all local zoning/land use ordinances. Bryan County, Pembroke and Richmond Hill all have zoning ordinances that address the placement of such facilities. The ordinances are available through each jurisdiction's planning and zoning office as well as their websites. For specific language regarding placing such facilities in Bryan County, refer to Section 1116 of the Bryan County Zoning Ordinance, which is provided in Appendix K of this plan.

Bryan County and the Cities of Pembroke and Richmond Hill have zoning ordinances as well as future land use plans and accompanying maps that specify approved uses for various districts within the county. Appendix J includes the County's land use map, which is an illustrative description of the county's zoning ordinance and land use plan. More detailed descriptions for land limitations under this plan can be found in the Bryan County Future Land Use Plan (updated version to be adopted 2009) and the Bryan County, City of Pembroke and City of Richmond Hill Zoning Ordinances.

Other limitations apply to solid waste disposal facilities. State and Federal restrictions for siting solid waste facilities based on land uses include:

- National Historic Sites – MSW landfills are not permitted with 5,708 yards of a National Historic Site (OCGA Section 12-8-25.1).
- Airport Safety – DNR Rule 391-3-4-.05(1)© requires that new solid waste landfill units or lateral expansions of existing units shall not be within 5,000 feet of any runway planned or used for piston-type aircraft or within 10,000 feet of any runway planned or used for turbo-jet or piston-type aircraft. (See Figure 6.3)

- Surface Water Intake – According to the Georgia DNR Rule 391-3-16-.01, unless there are no other feasible locations, solid waste landfills should not be located within two miles of a surface water intake for a public water source.
- Co-located landfills – Section 12-8-25.4 of the OCGA states that no solid waste handling facility, excluding materials recovery facilities and composting facilities, can be sited on a site that falls within a two-mile radius of three or more solid waste landfills (including closed landfills that received waste on or after June 29, 1989).
- Political Subdivisions – OCGA Section 12-8-25 prohibits the siting of an MSW landfill within one-half mile of another County's borders without the approval of that jurisdiction's governing authority. Bryan County borders five other counties (Chatham, Effingham, Bulloch, Evans, and Liberty).
- Private Recreational Camps – OCGA Section 12-8-25.5 states that no permit shall be issued for any new municipal solid waste facility if any part of the premises proposed for permitting is within one mile of any private recreational camp operated primarily for the use by persons under 18 years of age and which camp has been so operated at its location for 25 years or more.
- Fault areas – No such area is currently recorded as being present in Bryan County. In the event that such an area is recorded by the appropriate regulatory organization, this plan will be amended to include limitations regarding solid waste management specific to this type of area.
- Seismic impact areas – No such area is currently recorded as being present in Bryan County. In the event that such an area is recorded by the appropriate regulatory organization, this plan will be amended to include limitations regarding solid waste management specific to this type of area.
- Unstable areas – No such area is currently recorded as being present in Bryan County. In the event that such an area is recorded by the appropriate regulatory organization, this plan will be amended to include limitations regarding solid waste management specific to this type of area.
- Protected mountains – No such area is currently recorded as being present in Bryan County. In the event that such an area is recorded by the appropriate regulatory organization, this plan will be amended to include limitations regarding solid waste management specific to this type of area.

6.2 Local Procedures for Siting Solid Waste Facilities

Bryan County, Pembroke and Richmond Hill all have no plans to build or operate any solid waste handling facility within the ten-year planning period.

In addition, no proposed solid waste handling facility or facility expansion will be sited in Bryan County without a letter from the County Commission or appropriate City Council stating that the proposed facility is consistent with the Solid Waste Management Plan. Any applicant wishing to present a case for constructing such a facility will be required to cover expenses of developing plan and properly informing public based on the procedures listed in this plan and common practices for public notification followed by Bryan County and/or the cities of Pembroke and Richmond Hill.

For specific language regarding regulations on placing such facilities in Bryan County, refer to the Environmental Protection Division of the Georgia Department of Natural Resources rules for siting solid waste facilities within the state of Georgia as well as Section 1116 of the Bryan County Zoning Ordinance and the appropriate sections in the zoning ordinances of both Pembroke and Richmond Hill.

The procedure for determining whether a proposed facility or facility expansion is consistent with the Solid Waste Management Plan is as follows:

1. At least 120 days prior to filing for a solid waste handling permit, or notifying EPD in the case of a solid waste handling facility that is permitted by rule, the applicant will submit to the governing body a written statement documenting the following:
 - a. How the proposed facility or facility expansion will meet the specific goals and/or needs identified in the Solid Waste Management Plan, including a description of:
 - i. The impact upon the collection capability within the county;
 - ii. The impact upon disposal capacity identified in the county; and
 - iii. The impact to the waste reduction and recycling efforts within the county, specifically how the proposed facility or facility expansion will further progress towards waste reduction.
 - b. How the proposed facility or facility expansion and its operation will impact the community. Specifically what will be:
 - i. The impact to vehicle traffic and public safety around the proposed facility and throughout the county;
 - ii. The impact on natural or cultural resources within the county;
 - iii. The impact to individual and business solid waste management rates; and
 - iv. The impact on the current solid waste management infrastructure with the county, both public and private.
 - c. The impact to the financial viability of the existing solid waste management system within the county.
 - d. Evidence that the proposed facility or facility expansion is sited in an area deemed suitable according to the criteria listed in the Plan.
 - e. Evidence that the proposed facility or facility expansion is sited in a location that is consistent with local zoning ordinances.
 - f. Evidence that the proper public notification was given, including notification of all adjacent property owners.
2. Within 60 days after this document is received, the County Commission and/or appropriate City Council will hold at least one public hearing on the proposed facility or facility expansion to gather input regarding the consistency of the facility with the Solid Waste Management Plan. This public hearing or hearings will be advertised according to local requirements regarding public notification of public hearings.
3. The governing body shall review the written documentation for consistency and consider public comment and determine whether the proposed facility or facility

expansion is consistent with the Solid Waste Management Plan. Within 30 days of making their determination the governing body shall notify the facility owner/operator whether or not the proposed facility or facility expansion is consistent with the Plan. If the proposed facility is not consistent with the Plan, the developer may address the inconsistencies and resubmit their request for another review.

6.3 Assessment of Land Limitation

Bryan County and the municipalities located within the county have a clear picture of the environmental and zoning limitations to siting solid waste facilities or facility expansions.

6.4 Needs and Goals

Goal: To ensure that proposed solid waste handling facilities and expansions are developed to meet the needs of the county and the municipalities located within the county, are consistent with this Solid Waste Management Plan and with local government zoning ordinances, are compatible with surrounding land uses, and meet federal, state, and local environmental requirements.

Strategy:

- Keep all information about natural environmental limitations, zoning, and land use updated and available.
- Inform and educate potential developers about the procedures to determine consistency of proposed facilities with this Solid Waste Management Plan.
- Enforce the requirement that no solid waste handling facility be sited without a letter from the governing authority documenting its consistency with the Solid Waste Management Plan using the procedures described herein.

Section 7 Education and Public Involvement Element

Because of the geographic division of Bryan County, public education and involvement efforts are divided into the northwestern part of the county, which contains Pembroke, and the southeastern part of the county, which contains Richmond Hill.

7.1 Inventory of Existing Public Education Programs and Public Involvement Opportunities

Figure 7.1 Public Education and Involvement Activities and Programs

Program/Activity	Areas Covered	Operated By	Target Audience	Number of participants per year	Description of impact
Recycling information on website	All	Bryan County	General Public	30,000	informs people on what, where, when and how to recycle
Variety of programs on value of clean environment	South Bryan, Richmond Hill	Coastal Bryan Tree Foundation	General Public	15,000	informs people on why, what, where, when and how to recycle
Volunteer Litter Cleanups	All	Garden Clubs and other civic groups in Bryan County	Garden Club members, civic clubs and friends	150	Involve volunteers in litter cleanups on roadways

7.2 Assess Adequacy of Environmental Education Initiatives

Bryan County, Pembroke and Richmond Hill have limited public education programs in place. The formal establishment of a Keep America Beautiful affiliate program would greatly enhance the education and involvement opportunities provided to the public. A Clean and Beautiful program was very active in the 90's, and all parties open to re-energizing this program.

7.3 Statement of Needs and Goals

Solid Waste Management Plan 2007-2017

Goal: Ensure that all residents in Bryan County have access to and are routinely engaged by educational programs and information and opportunities to get involved in waste reduction and proper solid waste disposal.

Strategy:

- Maintain accurate and updated information on websites and in offices
- Add information on statewide litter prevention program on each jurisdiction's website (www.litteritcostsyoud.org)
- As recycling programs improve, add information on websites of Pembroke, Richmond Hill, and Bryan County
- Maintain proper signage at all recycling and waste disposal facilities
- Take advantage of education resources and organizations and utilize materials already developed for such purposes. Provide information on-line and at government buildings.
- Form committee to explore possibility of reestablishing Bryan Clean and Beautiful

Section 8 Implementation Strategy

8.1 Summary of Needs and Goals

Waste Reduction

Bryan County

Goal: Increase participation in drop-off recycle centers program by 25%. (Measure in tons recycled annually.)

Strategy:

- Maintain extensive hours of operation currently in use.
- Increase educational efforts targeted at community residents.
- Improve signage at recycling centers to assist with source separation.
- Expand types of materials accepted at centers.

City of Pembroke

Goal: Increase participation in voluntary curbside recycling program in City of Pembroke

Strategy:

- Take advantage of regional recycling program offered through Bulloch County. Use single stream collection method and transport unsorted material to HUB in Bulloch County.
- Improve and increase public education efforts.

City of Richmond Hill

Goal: Establish a recycling program for residential use.

Strategy:

- Form committee to explore possibilities and public demand for either a Drop-off center or curbside program,
- In the event such a program is formed, take advantage of nearby single stream processing/transfer centers set to open in 2009
- Initiate public education effort

Bryan County

Goal: Yard waste program improvement

Strategy:

- Continue operating drop-off program at low cost to residents

City of Pembroke

Goal: Establish yard waste collection/disposal program

Strategy:

- Purchase chipping machine
- Educate public on new program and importance of program

- Establish weekly curbside chipping program, residents may keep mulch

All Jurisdictions

Goal: Offer means of disposal for household hazardous waste and other items requiring special attention.

Strategy:

- Partner with private disposal company and host annual Household Hazardous Waste (HHW) and electronics collection events in conjunction with Great American Cleanup events.

All Jurisdictions

Goal: Reduce amount of organic waste going into landfill.

Strategy:

- Improve and increase educational programming about composting.
- Address feasibility of operating municipal composting program.

Jurisdiction: listed by each goal and/or strategy

Collection

Goal: Provide residents living in all areas of the county with accessible and convenient means of properly disposing of trash and recyclables. The County and each municipality lying within the county must ensure proper collection services, whether public or private, are in place for trash and recyclables collection.

Strategy:

- Maintain curbside trash collection service throughout county
- Maintain recycling and trash drop-off centers on north and south ends of county (add additional centers as needed by population increase and demand)
- Improve curbside recycling collection in Pembroke by partnering with the Regional Recycling Hub in Bulloch County.
- Conduct study using current data and trends to determine feasibility of offering curbside recycling collection or drop-off recycling collection in Richmond Hill.
- Continue negotiations with Fort Stewart to offer single-stream at both recycling drop-off centers
- Explore possibility of offering yard waste drop-off site or curbside collection service for City of Pembroke

Jurisdiction: listed by each goal and/or strategy

Disposal

Goal: Ensure sufficient disposal capacity to handle the amount of waste projected to be disposed of for the next ten years.

Strategy:

Solid Waste Management Plan 2007-2017

- **Richmond Hill:** Continue to transport waste to Superior Landfill in Savannah, which has guaranteed capacity for the next ten years.
- **Bryan County unincorporated and Pembroke:** Continue to transport waste to Broadhurst Landfill in Jesup, which has guaranteed capacity for the next ten years.

Jurisdiction: Transportation to Broadhurst Landfill for permanent disposal is operated by the Republic Waste Services on behalf of Bryan County and Pembroke. Waste Management transports material to Superior Landfill on behalf of Richmond Hill.

Land Limitation

***Goal:** To ensure that proposed solid waste handling facilities and expansions are developed to meet the needs of the county and the municipalities located within the county, are consistent with this Solid Waste Management Plan and with local government zoning ordinances, are compatible with surrounding land uses, and meet federal, state, and local environmental requirements.*

Strategy:

- Keep all information about natural environmental limitations, zoning, and land use updated and available.
- Inform and educate potential developers about the procedures to determine consistency of proposed facilities with this Solid Waste Management Plan.
- Enforce the requirement that no solid waste handling facility be sited without a letter from the governing authority documenting its consistency with the Solid Waste Management Plan using the procedures described herein.

Jurisdiction: Bryan County, Pembroke and Richmond Hill

Education and Public Involvement

***Goal:** Ensure that all residents in Bryan County have access to and are routinely engaged by educational programs and information and opportunities to get involved in waste reduction and proper solid waste disposal.*

Strategy:

- Maintain accurate and updated information on websites and in offices
- Add information on statewide litter prevention program on each jurisdiction's website (www.litteritcostsyoudo.org)
- As recycling programs improve, add information on websites of Pembroke, Richmond Hill, and Bryan County
- Maintain proper signage at all recycling and waste disposal facilities
- Take advantage of education resources and organizations and utilize materials already developed for such purposes. Provide information on-line and at government buildings.
- Form committee to explore possibility of reestablishing Bryan Clean and Beautiful

Jurisdiction: Pembroke, Richmond Hill, and Bryan County

8.2 Implementation Strategy/Short Term Work Program

The chart below describes the implementation strategy and timeline for this Solid Waste Management Plan. The first five years of the implementation strategy represent the short-term work plan. Plans for the latter five years will be revisited in 2012 to update plans and create the short-term work plan for 2013-2018.

Program/Activity	Year Program /Activity Takes Place												Responsible Party	Estimated Cost	Funding Source	
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018				
Waste Reduction Element Needs/goals:																
Bryan County: Increase participation in drop-off recycling program		X	X	X	X	X	X	X	X	X	X	X	X	Bryan County	\$75,000/yr	GF, RR
Pembroke: Increase participation in voluntary curbside recycling program			X	X	X	X								City of Pembroke	\$10,000/yr	GF, RR
Richmond Hill: Establish residential recycling program				X	X	X								City of Richmond Hill	N/A	N/A
Bryan County: maintain yard waste program	X	X	X	X	X	X	X	X	X	X	X	X	X	Bryan County	included in recycling budget	N/A
Pembroke: establish yard waste recycling program			X	X	X	X	X	X	X	X	X	X	X	City of Pembroke	\$6,000/yr	GR, GF

Solid Waste Management Plan 2007-2017

All jurisdictions: offer disposal options for materials requiring special attention			X	X	X	X	X	X	X	X	X	X	X	all jurisdictions	\$1-10,000/yr	GR, GF
All jurisdictions: reduce amount of organic wasting going into landfill			X	X	X	X	X	X	X	X	X	X	X	all jurisdictions	\$1,500/yr	GR, GF
Collection Element Needs/goals:																
Maintain curbside collection services in Pembroke	X	X	X	X	X	X	X	X	X	X	X	X	X	City of Pembroke	\$106,000/yr	GF, F
Maintain curbside collection in Richmond Hill	X	X	X	X	X	X	X	X	X	X	X	X	X	City of Richmond Hill	\$260,000/yr	GF, F
Maintain curbside collection services in unincorporated Bryan County	X	X	X	X	X	X	X	X	X	X	X	X	X	Bryan County	\$420,000/yr	GF, F
Disposal Element Needs/goals:																
Transport material from Pembroke to Broadhurst Landfill	X	X	X	X	X	X	X	X	X	X	X	X	X	City of Pembroke	\$54,000/yr	GF, F
Transport material from Richmond Hill to Superior Landfill	X	X	X	X	X	X	X	X	X	X	X	X	X	City of Richmond Hill	included in collection budget	GF, F
Transport material from unincorporated Bryan	X	X	X	X	X	X	X	X	X	X	X	X	X	Bryan County	\$258,000/yr	GF, F

Solid Waste Management Plan 2007-2017

County to Broadhurst Landfill																		
Land Limitation Element Needs/goals:																		
land limitation plans, procedures up to date	X	X	X	X	X	X	X	X	X	X	X	X	X	all jurisdictions	as needed	GF		
Education, Public Involvement Element Needs/goals:																		
Form committee to re-energize Clean and Beautiful program			X	X										all jurisdictions	NA	N/A		

GF = general funding
 GR = grant funding
 RR = recycling revenue
 F = fee based program

Section 9 Appendices

- Appendix A: Solid Waste Management Plan Resolution, Bryan County
- Appendix B: Solid Waste Management Plan Resolution, City of Pembroke
- Appendix C: Solid Waste Management Plan Resolution, City of Richmond Hill
- Appendix D: Public Hearing Notices
- Appendix E: Superior Landfill Capacity Assurance Letter
- Appendix F: Broadhurst Landfill Capacity Assurance Letter
- Appendix G: Bryan County Litter Ordinance
- Appendix H: City of Pembroke Litter Ordinance
- Appendix I: City of Richmond Hill Litter Ordinance
- Appendix J: Future Land Use Maps and Land Limitation Maps for North and South Bryan County
- Appendix K: Bryan County Zoning Ordinance Section 1116. Waste Management District
- Appendix L: Floodplain and Wetland Maps of planning area

RESOLUTION

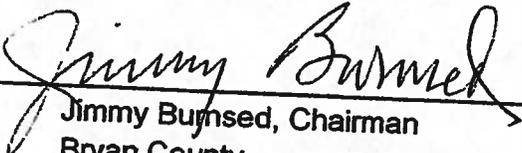
WHEREAS, The Georgia Comprehensive Solid Waste Management Act of 1990 enacted by the Georgia General Assembly mandated that each of Georgia's counties and cities prepare and Solid Waste Management Plan every ten years; and update the Solid Waste Management Short Term Work Program every five; and

WHEREAS, Bryan County and the Cities of Pembroke and Richmond Hill have completed an updated Solid Waste Management Plan; and

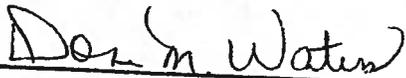
WHEREAS, Bryan County and the Cities of Pembroke and Richmond Hill have complied with the Rules and Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management (Chapter 11-4-3) including public participation requirements;

NOW, THEREFORE, BE IT RESOLVED by the Bryan County Board of Commissioners that the document entitled Bryan County and the Cities of Pembroke and Richmond Hill Solid Waste Management Plan, which includes the updated Short Term Work Program, may be transmitted to the Coastal Georgia Regional Development Center for its formal review and then to the Georgia Department of Community Affairs for final approval before adoption by the Bryan County Board of Commissioners.

SO RESOLVED ON THIS 4 DAY OF Nov 2008.


Jimmy Burns, Chairman
Bryan County

ATTEST


Donna Waters
County Clerk

**RESOLUTION TO ADOPT
THE 2008-2018 SOLID WASTE MANAGEMENT PLAN**

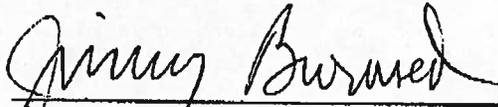
WHEREAS, The Georgia Comprehensive Solid Waste Management Act of 1990 enacted by the Georgia General Assembly mandated that each of Georgia's counties and municipal governments prepare a Solid Waste Management Plan every ten years, and update the Solid Waste Management Short Term Work Program every five years; and

WHEREAS, Bryan County and the Cities Pembroke and Richmond Hill have completed the 2008-2018 Solid Waste Management Plan; and

WHEREAS, the 2008-2018 Solid Waste Management Plan for Bryan County and the Cities of Pembroke and Richmond Hill complies with the Rules of the Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management (Chapter 110-4-30);

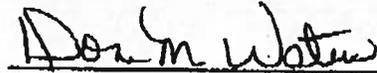
NOW, THEREFORE, BE IT RESOLVED that the Bryan County Board of Commissioners does hereby adopt the document entitled the 2008-2018 Solid Waste Management Plan for Bryan County and the Cities of Pembroke and Richmond Hill.

SO RESOLVED ON THIS 5 **DAY OF** May, 2009.



Jimmy Burnsed, Chairman
Bryan County Board of Commissioners

ATTEST:



Donna Waters, Clerk
Bryan County

RESOLUTION

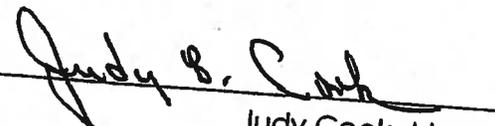
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WHEREAS, Bryan County and the Cities of Pembroke and Richmond Hill have completed an updated Solid Waste Management Plan; and

WHEREAS, Bryan County and the Cities of Pembroke and Richmond Hill have complied with the Rules and Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management (Chapter 11-4-3) including public participation requirements;

NOW, THEREFORE, BE IT RESOLVED by the Pembroke City Council that the document entitled Bryan County and the Cities of Pembroke and Richmond Hill Solid Waste Management Plan, which includes the updated Short Term Work Program, may be transmitted to the Coastal Georgia Regional Development Center for its formal review and then to the Georgia Department of Community Affairs for final approval before adoption by the Pembroke City Council.

SO RESOLVED ON THIS 13th DAY OF OCTOBER 2008.


Judy Cook, Mayor
City of Pembroke

ATTEST:


Betty R. Hill, City Clerk

**RESOLUTION TO ADOPT
THE 2008-2018 SOLID WASTE MANAGEMENT PLAN**

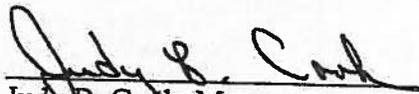
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WHEREAS, Bryan County and the Cities of Pembroke and Richmond Hill have completed the 2008-2018 Solid Waste Management Plan; and

WHEREAS, the 2008-2018 Solid Waste Management Plan for Bryan County and the Cities of Pembroke and Richmond Hill complies with the Rules of the Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management (Chapter 110-4-30);

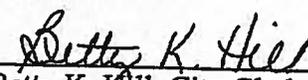
NOW, THEREFORE, BE IT RESOLVED that the Pembroke City Council does hereby adopt the document entitled the 2008-2018 Solid Waste Management Plan for Bryan County and the Cities of Pembroke and Richmond Hill.

SO RESOLVED ON THIS 14th DAY OF MAY, 2009.

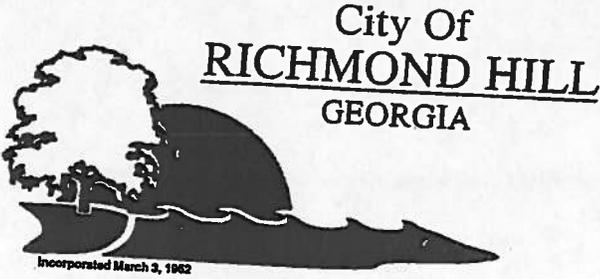


Judy B. Cook, Mayor
City of Pembroke

ATTEST:



Betty K. Hill, City Clerk
City of Pembroke



Mayor
Richard R. Davis

City Council Members:
Marilyn Hodges
Floyd Hilliard
Jimmy Hires
JoAnn Bickley

City Manager
Michael J. Melton

City Clerk
Ursula G. Lee

RESOLUTION

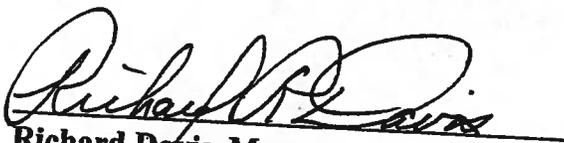
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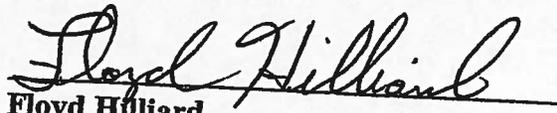
WHEREAS, Bryan County and the Cities of Pembroke and Richmond Hill have completed an updated Solid Waste Management Plan; and

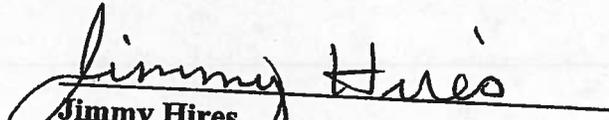
WHEREAS, Bryan County and the Cities of Pembroke and Richmond Hill have complied with the Rules and Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management (Chapter 11-4-3) including public participation requirements;

NOW, THEREFORE, BE IT RESOLVED by the Richmond Hill City Council that the document entitled Bryan County and the Cities of Pembroke and Richmond Hill Solid Waste Management Plan, which includes the updated Short Term Work Program, may be transmitted to the Coastal Georgia Regional Development Center for its formal review and then to the Georgia Department of Community Affairs for final approval before adoption by the Richmond Hill City Council.

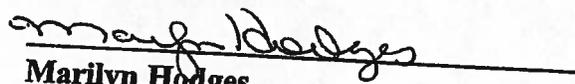
SO RESOLVED ON THIS 21st DAY OF October, 2008.


Richard Davis, Mayor
City of Richmond Hill

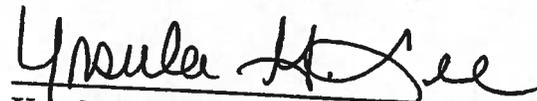

Floyd Hilliard
City Councilman


Jimmy Hires
City Councilman


JoAnn Bickley
City Councilwoman


Marilyn Hodges
City Councilwoman

ATTEST


Ursula Lee, Clerk
City of Richmond Hill

**RESOLUTION TO ADOPT
THE 2008-2018 SOLID WASTE MANAGEMENT PLAN**

WHEREAS, The Georgia Comprehensive Solid Waste Management Act of 1990 enacted by the Georgia General Assembly mandated that each of Georgia's counties and municipal governments prepare a Solid Waste Management Plan every ten years, and update the Solid Waste Management Short Term Work Program every five years; and

WHEREAS, Bryan County and the Cities Pembroke and Richmond Hill have completed the 2008-2018 Solid Waste Management Plan; and

WHEREAS, the 2008-2018 Solid Waste Management Plan for Bryan County and the Cities of Pembroke and Richmond Hill complies with the Rules of the Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management (Chapter 110-4-30);

NOW, THEREFORE, BE IT RESOLVED that the Richmond Hill City Council does hereby adopt the document entitled the 2008-2018 Solid Waste Management Plan for Bryan County and the Cities of Pembroke and Richmond Hill.

SO RESOLVED ON THIS 21st **DAY OF** April, 2009.


Richard Davis, Mayor
City of Richmond Hill

ATTEST:


Ursula Lee, Clerk
City of Richmond Hill

Public Notice

Bryan County, City of Pembroke, City of Richmond Hill: The second public meeting regarding the updated Solid Waste Management Plan for the City of Pembroke, City of Richmond Hill, and Bryan County will be held in conjunction with the Pembroke City Council meeting on Monday, October 13 at 7 p.m. as mandated by the State of Georgia Solid Waste Management Minimum Planning Standards.

Appendix E



SUPERIOR LANDFILL & RECYCLING CENTER, IN
A WASTE MANAGEMENT COMPANY

3001 Little Neck Rd.
Savannah, GA 31419
(912) 927-6113
(912) 927-2166 Fax

October 14, 2008

Brooke Carney
c/o Phil Jones
Bryan County Board of Commissioners
P.O. Box 430
Pembroke, GA 31321

Dear Ms. Carney:

This letter serves as a disposal capacity assurance for waste generated by Richmond Hill for 2008 through 2018 at Superior Landfill. During which time it is anticipated that Richmond Hill will generate 19,225.83 tons of waste annually. The Georgia EPD permit number for this facility is 025-070D(MSWL).

We thank Richmond Hill for their business partnership and look forward to providing environmentally sound waste disposal options for the foreseeable future.

Sincerely,
Superior Landfill and Recycling Center


Robby White
District Manager



10/6/08

Broadhurst

Environmental

Appendix F

Jeff Copy: Brooke Canney
PHD

P.O. Box 278
Screven, GA 31560
Phone: (912) 530-7050
Fax: (912) 530-7070

October 2, 2008

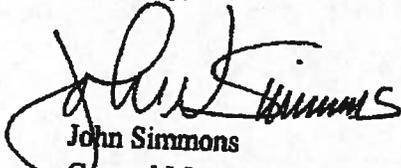
Mr. Phil Jones
P.O. Box 430
Pembroke, GA 31321

Dear Mr. Jones,

This letter serves as a disposal capacity assurance for waste generated by unincorporated Bryan County and the City of Pembroke. Waste is hauled by Republic Waste to the Broadhurst Environmental Landfill, and the Georgia EPD permit number for this facility is 151-014D(SL). This facility has a remaining capacity of 12 years. This assurance is based upon the total disposal of approximately 38,451.65 tons on an annual basis by unincorporated Bryan County and the City of Pembroke.

We thank Bryan County and the City of Pembroke for this business partnership and look forward to providing environmentally sound waste disposal options for the foreseeable future.

Sincerely,


John Simmons
General Manager

CHAPTER 6
ENVIRONMENTAL ORDINANCE

ARTICLE I: LITTER CONTROL AND SOLID WASTE MANAGEMENT

6-101 Purpose. To protect the public health, safety and welfare of the citizens of Bryan County, to protect the environment, to enhance the physical quality of life in Bryan County, and to contribute by these efforts to improving the quality of life in Bryan County and enhancing the natural beauty of our State and County by establishing minimum standards for the storage, collection, transportation and disposal of solid wastes that originate in Bryan County, or which originate outside of Bryan County but are stored, transported or disposed of with Bryan County, and by establishing the mechanism by which these standards are enforced.

6-102 Definitions. For the purpose of this chapter the following terms, phrases, words and their derivations shall have the meanings ascribed to them in this section:

1. **Biomedical Wastes.** pathological waste, biological waste cultures and stocks of infection agents and associated biologicals, contaminated animal carcasses (body parts, their bedding, and other wastes from such animals), sharps, chemotherapy waste, discarded medical equipment and parts, not including supplies and materials which have not been decontaminated, and other such waste materials.

2. **Business Trash.** every waste accumulation of paper, sweepings, dust, rags, bottles, cans or other matter of any kind, other than garbage, which is usually attendant to business operations.

3. **Codes Enforcement Officer.** the person or persons authorized by the Board of Commissioners to issue citations to violators of this Ordinance or any other County Ordinance.

4. **Containers (Dumpsters).** any bulk device used for the collection of garbage, refuse, trash and litter, commonly referred to as a dumpster.

5. **Composting.** the controlled biological decomposition of organic matter into a stable, odor free humus.

6. **Construction/Demolition Wastes.** any material such as lumber, roofing material, brick, concrete block, plaster, gutters, sand, gravel or other substances used in repairs or alterations

Adopted: December 19, 1996

Signed: Donna M. Waters
Donna M. Waters, Clerk

of existing buildings or construction of new buildings, or which results from demolition of existing buildings.

7. Construction/Demolition Waste Landfill. any facility or disposal site where any treatment, utilization, processing, storage, or disposal of solid wastes, other than putrescible wastes, occurs and such wastes are disposed of on land by placing any earth cover thereon.

8. Convenience Center. An area designated by or owned by the county and used for the collection of solid waste or recyclable materials from the residents of Bryan County.

9. County. the duly authorized governing body of Bryan County, Georgia, or the geographical area of Bryan County, Georgia, outside the corporate limits of any incorporated municipality therein.

10. Dumpster. a bulk container used for the collection of garbage, refuse, trash and litter. The use of this term is generic, and does not refer to a bulk container manufactured by a specific manufacturer.

11. Garbage. the by-product of animal or vegetable foodstuffs resulting from the handling, preparation, cooking and consumption of food, or other matter which is subject to decomposition, decay, putrefaction or the generation of noxious or offensive gasses or odors, or which during or after decay, may serve as breeding or feeding material for flies, insects or animals.

12. Garbage Bag. a plastic (or other similar non-porous material) bag or sack designed specifically to contain garbage or household trash in a secure air-tight manner. Such bags shall also include suitable means of closure to insure that the material contained therein is not exposed to the outside air.

13. Hazardous Waste. any substance listed as a hazardous constituent in regulations promulgated pursuant to the federal act by the administrator of the United States Environmental Protection Agency which are in force and effect on February 1, 1992, codified as Appendix VIII to 40 C.F.R. Part 261 - Identification and Listing of Hazardous Waste and subsequent changes.

14. Household Trash. every waste accumulation of paper, sweepings, dust, rags, bottles, cans or other matter of any kind, other than garbage, which is usually attendant to housekeeping.

Adopted: December 19, 1996

Signed: Donna M. Waters
Donna M. Waters, Clerk

15. Industrial Waste. solid waste generated by manufacturing or industrial processes or operations that is not a hazardous waste regulated under Part 1 of Article 3 of the "Georgia Hazardous Waste Management Act." Such waste includes, but is not limited to, waste resulting from the following manufacturing processes: electrical power generation; fertilizer and agricultural chemicals; food and related products and by-products; inorganic chemicals; iron and steel products; leather and leather products; nonferrous metal and foundry products; organic chemicals; plastics and resins; pulp and paper; rubber and miscellaneous plastic products; stone, glass, clay, and concrete products; textiles; transportation equipment; and water treatment. This term does not include mining waste or oil and gas waste.

16. Junked Vehicles. Any wrecked or inoperable automobile, truck or other vehicle, or vehicle which does not bear a current license plate.

17. Landfill Municipal. any facility or disposal site where any treatment, utilization, processing, storage, or disposal of solid wastes, including putrescible wastes or hazardous wastes, occurs and such wastes are disposed of on land by placing an earth cover thereon.

18. Litter. all garbage, refuse, waste materials, sand, gravel, slag, brickbats, rubbish, tin cans, trash, debris, dead animals, or any other discarded, used or unconsumed substance which is not handled in accordance with the provisions of this Ordinance.

19. Monitor. the person or persons authorized by the Board of Commissioners to inspect and patrol the areas where compactors or dumpsters are located in the County, and the roads and streets of the County.

20. Parking Lot. (a) an area, whether paved or unpaved, designated, reserved or used for the reserved parking of motor vehicles, excluding street parking, which has more than 10 parking spaces or can accommodate more than 10 parked vehicles; (b) any commercial parking lot or garage; and (c) the driveway, drive-through, parking spaces or other paved areas adjacent to convenience stores, gas stations, restaurants and other retail establishments.

21. Public or Private Property. the right of way of any road, street or highway; and any body of water or watercourse or the shores of beaches thereof; any park, playground, building, refuge, or conservation or recreation area; and residential or farm properties, timberlands, or forests.

22. Putrescible Wastes. wastes that are capable of being quickly decomposed by microorganisms. Examples of putrescible wastes include but are not necessarily limited to kitchen wastes, animal manure, offal, hatchery and poultry processing plant wastes, dead animals, garbage, and wastes which are contaminated by such wastes.

Adopted: December 19, 1996

Signed: Donna M. Waters
Donna M. Waters, Clerk

23. Recycling. any process by which materials which would otherwise become solid waste are collected, separated, or processed and reused or returned to use in the form of raw materials or products.

24. Sharps. any discarded article that may cause punctures or cuts. Such waste includes, but is not limited to, items such as needles, IV tubing and syringes with needles attached, and scalpel blades.

25. Solid Waste. any garbage or refuse; sludge from water waste treatment plant, water supply treatment plant, or air pollution control facility; and other discarded material including solid, semisolid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations and community activities, but does not include recovered materials; solid or dissolved materials in domestic sewage; solid or dissolved materials in irrigation return flows or industrial discharges that are point sources subject to permit under 33 U.S.C. Section 1342; or source, special nuclear, or by-product material as defined by the Federal Atomic Energy Act of 1954, as amended (68 STAT. 923).

26. Road or Street. shall be mutually inclusive, and shall likewise be deemed to include any alley, lane, court and other thoroughfare, however described or designated.

27. Rubbish. includes waste paper, cartons, boxes, wood, tree branches, yard trimmings, furniture, appliances, metal cans, glass, packing material and similar material.

28. Scavenger or Scavenging. any unauthorized or uncontrolled retrieval of discarded solid waste materials from landfills, containers, dumpsters or from convenience centers.

29. Yard Trimmings. leaves, brush, grass clippings, shrub and tree prunings, discarded Christmas trees, nursery and greenhouse vegetative residuals, and vegetative material resulting from landscaping development and maintenance other than mining, agricultural, and silvicultural operations.

6-103 Containers/Dumpsters.

1. The Board of Commissioners shall designate areas in the County where containers/dumpsters intended to be for public use, shall be located and maintained. These containers/dumpsters shall be located on public property, along the right of way of public roads on streets, on private property with the express written consent of the owner and tenant in legal possession of the property, and shall be located in such a manner that there is a minimum danger of the spread of noxious odors and the detrimental effect on the environment is minimal.

Adopted: December 19, 1996

Signed: Donna M. Waters
Donna M. Waters, Clerk

2. It shall be unlawful for any person or persons not a resident of Bryan County, Georgia to place or deposit any garbage, refuse, litter, household trash or other material of any kind in these containers/dumpsters. The containers/dumpsters shall carry a placard or sign stating that they are solely intended for the use of residents of Bryan County, and that it is unlawful to deposit anything other than garbage or household trash therein.
3. It shall be unlawful to place or deposit industrial waste or construction/demolition wastes in these containers/dumpsters unless they are specifically designated for such use by the Board of Commissioners
4. It shall be unlawful to place or deposit any hazardous solid wastes of any kind in the containers/dumpsters.
5. It shall be unlawful for any person to dispose of or discard in the containers/dumpsters any hypodermic injection devices before first breaking, disassembling, destroying or otherwise rendering inoperable and incapable of reuse, any hypodermic syringe, needle, instrument or device and without safeguarding the disposal thereof by wrapping or securing same in a suitable manner so as to avoid the possibility of causing injury to the collection personnel.
6. Ashes may not be deposited in the container/dumpster.
7. No highly combustible liquid shall be placed or deposited in the container/dumpster.
8. No material or substance governed or regulated as a noxious or toxic material by any governmental agency or which would pose a hazard to the health, safety and well-being of the collection personnel or residents of the County, or which could contaminate the ground or surface water of the County, or which would pose a danger to the wildlife of the County, shall be placed or deposited in the container/dumpster.
9. It shall be unlawful to place or deposit any garbage or household trash in the container/dumpster without first placing and securing such in a garbage bag of suitable strength and thickness. Objects which could puncture the garbage bag in the course of the ordinary and intended use thereof, shall be wrapped or protected so that the bag shall remain intact.
10. It shall be unlawful to place or deposit garbage or household trash on the ground adjacent to the container/dumpster or in any location other than the container/dumpster, unless otherwise directed and except that recyclable materials may be placed in designated containers where provided. Any person using the container/dumpster shall clean up any

Adopted: December 19, 1996

Signed: Donna M. Waters
Donna M. Waters, Clerk

spills caused by his use of the container/dumpster and shall not drop or discard any garbage or household trash in the area surrounding the containers/dumpsters.

11. Dead or live animals shall not be placed or deposited in or around the containers/dumpsters.

6-104 Public Municipal, Construction/Demolition or Inert Waste Landfill.

1. The County, through the Board of Commissioners, may operate and maintain public landfills located on County property in compliance with all applicable State and Federal laws and regulations, and may adopt procedures, rules and regulations to govern the operation and use of these landfills.

2. Public sites approved for the disposal of solid wastes shall be identified by appropriate directional signs posted near the roadside and at the location of the Bryan County Landfills.

3. Such sites shall be maintained in use until permanently closed, at which time, additional authorized sites shall be opened and publicized by posting and through public advertisements.

4. The Board of Commissioners shall restrict certain sites or portions thereof to a specific type or types of solid waste. The Board of Commissioners may adopt operational policies concerning the separation, storage and use of recyclable materials. Citizens are encouraged to practice source separation of specific types of solid wastes for disposal at specific sites by different methods.

5. Commercial Collectors, including yard maintenance men, may use the public designated landfills upon the payment of applicable fees, if any, established by the Board of Commissioners.

6. Residents of the County and businesses located in Bryan County, other than commercial collectors, may use the public designated landfills upon payment of a fee to be set by the Board of Commissioners, in accordance with the regulations for the particular site and under the instruction of the site attendant.

7. Municipalities located within Bryan County may use the public landfills upon payment of applicable fees, if any, established by the Board of Commissioners.

Adopted: December 19, 1996

Signed: Donna M. Waters

Donna M. Waters, Clerk

8. No solid wastes generated outside the County will be accepted at any disposal site operated by the County unless approved by a specific, affirmative act of the County Commission through amendment of this ordinance or adoption of superseding regulation.

9. Authorized public disposal sites shall be operated on the days established from time to time by the Board of Commissioners. During the hours designated by the Board of Commissioners, acceptable solid wastes generated in the County shall be received for disposal from any resident of the County.

10. No person shall enter a disposal site except when an attendant is present and during the hours and days prescribed. All materials delivered and deposited for disposal in a disposal site shall immediately become the property of the County, unless the County refuses any such materials at the time presented for deposit in the disposal site, or the County, within a reasonable time, notifies the depositor of the unacceptableness of the materials and to retrieve the materials.

6-105 Private Collection and Disposal.

1. Private Collectors. It shall be unlawful for any person to collect solid wastes within the County except from his or her own residence, business or industrial plant, without first having obtained a proper permit from the Georgia Department of Natural Resources and the County, and without first having paid the appropriate occupation tax in the state of Georgia. This provision shall not prohibit the utilization of centralized recycling collection facilities by persons not in the business of recycling. Commercial recyclers must pay the aforementioned tax in the state of Georgia.

2. Private Landfills. It shall be unlawful for any person to operate a landfill, waste disposal area, or waste storage area intended to be used or used by others for the disposal or storage of waste without first having obtained a proper permit from the Georgia Department of Natural Resources and the County.

3. No permit shall be issued by Bryan County until the applicant has shown, to the satisfaction of the Board of Commissioners, that all Federal, State, and County regulations and ordinances will be complied with in the operation and management of the landfill, waste disposal area, or waste storage area, and that there is no or only minimal detriment to the environment, including but not limited to, noxious odors, runoff, or contamination of surface and ground water, so that the maximum protection is afforded to the health, safety and well-being of the citizens of Bryan County.

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4. No permit shall be issued except by resolution of the Board of Commissioners after notice of the application has been published by the applicant in a newspaper of general circulation in Bryan County. Such notice of the application shall run in the newspaper once a week for two consecutive weeks before the meeting of the Board of Commissioners at which the application is to be considered. The notice shall contain a description of the property whereon the landfill, waste disposal area, or waste storage area is to be located, the names of the owner or owners of such property, the names of the operator or operators of the landfill, waste disposal area, or waste storage area, and a description of the types of waste to be handled at said facility.

5. It shall be the duty and responsibility of the owner of any private disposal site to keep the site in an orderly condition and maintained so as not to be a public nuisance or a menace to public health.

6. The Board of Commissioners hereby designates its Code Enforcement Officer as its designee who shall have the right to enter a private disposal site at any time during normal business hours for the purpose of inspecting the site to determine whether or not the site is in compliance with this Ordinance and all other pertinent laws and regulations of the County.

6-106 Private Litter Control.

1. Commercial Establishments

A. Every owner, occupant, tenant or lessee using or occupying any commercial, institutional or industrial building or property shall be obligated, jointly and severally, to provide solid wastes containers of that character, size, number and type as may be specified by the Board of Commissioners or its designee to be reasonably required to hold solid wastes generated by operations on the premises. Specifically, and without limiting the generality of the foregoing, the requirement for those containers shall apply to shopping centers, supermarkets, convenience stores, fast food restaurants, service stations and similar establishments; and shall likewise apply to commercial establishments, garages, schools, colleges and churches.

B. All commercial and industrial establishments shall store their solid wastes in containers as specified in this Ordinance so as to eliminate wind-driven debris and unsightly litter in and about their establishments. Approved methods of containerization shall include solid wastes receptacles, bulk containers and detachable containers. Any spillage or overflow shall be immediately cleaned up by said establishment.

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2. Parking Lots.

A. All parking lots and establishments with parking lots shall provide solid wastes receptacles. The County or its designee shall have the authority to determine the number and types of receptacles necessary to provide proper containerization, based on guidelines adopted and maintained, as amended from time to time, by the County or its designee. Such receptacles shall be weighted or attached to the ground as necessary to prevent spillage. It shall be the responsibility of the owner or his agent to collect the solid wastes and trash deposited in such containers and store this material in a location until collected by a private hauler or to otherwise dispose of the same.

B. It shall be the obligation of all persons using the parking areas to place any litter in receptacles or containers and it shall be unlawful for any person or persons to dump, scatter, or throw on any parking lot, any solid wastes, garbage or trash of any kind.

C. The owner and the tenant in possession of any parking lot or establishment with a parking lot shall collect and remove on a regular basis all loose solid wastes, garbage, litter or trash of any kind from the parking lot and open area of the premises and shall maintain surveillance to insure that all solid wastes is placed in the proper container and the area is kept in a clean, neat and sanitary condition at all times.

3. Loading and Unloading areas. All loading and unloading areas shall be provided with solid wastes receptacles for loose debris, paper, packaging materials and other trash. The owner or occupant of the commercial establishment shall be responsible for the placement of the number of containers in said area necessary to maintain a clean, neat and sanitary condition at all times. The number of such containers to be placed in service for a particular establishment shall be determined by the County or its designee, based on guidelines adopted and maintained, as amended from time to time, by the County or its designee. The occupant of the premises shall maintain surveillance to insure that all litter is placed in the proper container and the area is kept clean.

4. Construction Sites and Demolition Sites. All construction and demolition contractors shall provide on-site solid wastes receptacles, bulk containers, or detachable containers for loose debris, paper, building material waste, scrap construction/demolition wastes, and other trash produced by those working at the construction site. The site shall be kept in as litter-free condition as reasonably practicable. The number of solid wastes receptacles or bulk containers, or detachable containers, shall be determined by the size of the job, based on guidelines adopted and maintained, as amended from time to time, by the County or its designee. Dirt, mud, construction materials or other debris upon any public or private property belonging to a person other than the owner of the construction site shall be removed

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by the contractor as generated. Building material originating from private property preliminary to, during or subsequent to the construction of new buildings, alterations or additions to an existing building of whatever type or from demolition of existing structures shall be removed by the owner or the property or by the contractor. All solid wastes from construction and related activities shall be kept on site in such a manner as to eliminate wind-driven debris and unsightly litter in and about the site.

5. Residences and Private Properties.

A. Every owner, occupant, tenant and lessee using or occupying a residence, apartment, duplex, or other dwelling, jointly and severally, are required to remove all litter, solid wastes, household trash, garbage and other solid wastes and dispose of the same by depositing in a public landfill or public container in accordance with this Ordinance or by placing in proper containers in a suitable place readily accessible to sanitation collection crews or contracting with a private hauler to collect the same on a regular basis, but at least once each week. Where collection is conducted by means of curbside pickup, the containers shall be placed at the curb for pickup no earlier than 24 hours prior to the scheduled pickup time and shall be removed from the curb no later than 24 hours after the scheduled pickup time.

B. All owners or occupants of property shall maintain their property in litter free condition as reasonably practicable.

C. No person shall sweep into or deposit in any street or sidewalk accumulation of litter from any building or property.

6-107 Practices and Procedures.

1. The following practices and procedures shall be employed by persons in Bryan County in order to facilitate the collection of Solid Waste:

A. Solid Waste. All solid waste shall be placed and maintained in containers as specified herein. All containers shall be maintained at all times with tight-fitting lids or covers.

B. Garbage. All garbage placed in containers for collection shall be wrapped, bagged, or enclosed in paper or plastic materials.

C. Household Trash. Household trash may be combined with other bagged garbage.

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D. Injurious Trash Items. All waste material of an injurious nature, such as broken glass, light bulbs, sharp pieces of metal, fluorescent tubes, and television tubes shall be securely packaged and wrapped for the purpose of preventing injury to the collection crews or other parties.

2. It shall be unlawful for any person or persons to dump, deposit, throw, or leave or cause or permit the dumping, depositing, placing, throwing, or leaving of solid wastes on any road or street or any public or private property in the county, unless:

A. The property is designated by the State or County or by any of their agencies for the disposal of litter and the person is authorized by the proper public authority to use such property;

B. The litter is placed into a litter receptacle, container, or dumpster installed on such property and designated for the disposal of litter.

3. Public Streets and Private Property. No person shall place any accumulations of solid wastes and trash in any street, median strip, alley or other public place of travel, nor upon any private property except with the written consent of the owner thereof, and then only in accordance with the provisions of this Ordinance.

4. Blockage of Drainage. No person shall place any solid wastes, trash, solid wastes receptacles, or containers on, over or near any storm drain or drainage ditch, or so close thereto as to cause such material to interfere in any way with such drainage.

5. Unauthorized Storage. Any accumulation of solid wastes or trash items on any lot, property, premises, public streets, alley or other public or private place not permitted by this Ordinance, is hereby declared to be a nuisance. Failure of owner or occupant to remove and correct any such accumulation of solid wastes after appropriate notice from the Board of Commissioners or its designee shall raise the presumption that such person intended to violate this Ordinance.

6. Appliances. It shall be unlawful for any person to leave in any place accessible to children any abandoned, unattended, or discarded appliance, refrigerator, or other containers which have an airtight snaplock or similar device without first removing therefrom the lock or door as provided in Official Code of Georgia Annotated 16-11-100.

7. Use of Streets. It shall be unlawful for any vehicle transporting loose materials on any road or street to transport same without covers suitable to prevent the materials within such vehicle from shaking, blowing or falling from the vehicle. Suitable covering may vary from

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vehicle to vehicle, but the primary purpose of the cover shall be to prevent materials from escaping the storage area of the vehicle. This section shall not apply to the transportation of poultry, livestock, silage or other feed grain used in the feeding of poultry or livestock. The operator of any vehicle from which any material or solid wastes is thrown, dropped, spilled or blow shall stop and retrieve such material and solid wastes.

8. **Junk.** It shall be unlawful for any person to place or leave outside any building or dwelling, any dilapidated furniture, appliances, machinery, equipment, building material, junked motor vehicle, or other item which in a partially rusted, wrecked, junked, dismantled, or inoperative condition, and which is not completely enclosed within a building or dwelling. Any such item or items which remain on the property of the occupant for a period of thirty (30) days after notice of violation of this Ordinance, shall be presumed to be abandoned and subject to being removed from the property by the County without further notice. The County may charge the owner or occupant a fee for the cost of removing said items or items. This Section on junk shall not apply to licensed junk dealers or currently licensed establishments engaged in the repair, rebuilding, reconditioning, or salvaging of equipment or furniture, unless stated in County Ordinances.

9. **Scavenging.** No person shall disturb or interfere with any container used for the purpose of storing solid wastes pending its collection, or remove any contents therefrom or remove such container from its location.

10. **Scattering of Solid Wastes and Littering.** It shall be unlawful for any person to:

A. Throw or deposit any solid wastes on any public or private street or to scatter such solid wastes or litter on public or private property;

B. throw or deposit any solid wastes, trash, or debris in any marsh area, stream, drainage ditch, body of water or beach area.

6-108 Contagious Disease Solid Wastes. The removal of clothing, bedding or other solid wastes from any place where highly infectious diseases have prevailed shall be decontaminated prior to removal under the supervision and direction of the Bryan County Health Department. Such solid wastes shall not be placed in receptacles or bulk containers for collection until decontaminated.

6-109 Hypodermic Instruments. No person shall dispose of or discard any hypodermic syringe, hypodermic needle or any instrument or device for making hypodermic injections before first breaking, disassembling, destroying or otherwise rendering inoperable and incapable of use. Such items should be further safeguarded by wrapping or securing same in a suitable manner

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manner so as to avoid the possibility of causing injury or infection to the collection personnel or other parties.

6-110 Hazardous Waste, Industrial Waste and Building Material. No hazardous waste, industrial waste or building material shall be placed in any receptacle at any time. The County shall not be required to collect any hazardous waste, or building materials. These hazardous wastes shall be secured against the possibility of causing injury to any person and shall not be placed on public property or private property without the written consent of the State Environmental Protection Division and the owner thereof.

6-111 Yard Trimmings. Yard trimmings shall be composted on the owner's premises in conformity with this ordinance and any applicable state law or removed by the owner of the property and disposed of in a manner approved by this ordinance. This part shall not require the removal of wood cut and /or stored for later use as firewood.

6-112 Trees, Shrubbery Branches, Etc. Trees and shrubbery branches, limbs and trimmings cut by landscape or tree service contractors or other commercial workmen or resulting from land being cleared shall be composted on the owner's premises in conformity with this ordinance and any applicable state law or collected and removed by those who have performed the work or shall be removed by the person for whom the work was performed.

6-113 Leaves. Leaves may be composted on the owner's premises in conformity with this ordinance and any applicable state law or removed by the owner of the property and disposed of in a manner approved by this ordinance. (Revised-4/6/04)

6-114 Receptacles and Containers.

1. Every person in possession, charge or control of any building or from which business trash, industrial waste or other waste is accumulated or produced shall provide and keep in a suitable place readily accessible to licensed private collectors receptacles and containers suitable for the storage of all such waste materials which will normally accumulate between the established collection dates. This provision shall not be construed to require such persons to use the services of a licensed private collector for solid wastes removal so long as each person assures the removal and disposal of such solid wastes in a manner permitted by this Ordinance at least as frequently as private collector's normal schedule for the area, but in any event at least once each week.

2. All receptacles and containers as required by this Ordinance shall be constructed of an opaque, non-porous material such as metals, hard plastics or similar materials, of safe construction and design and shall be maintained in good, orderly and serviceable condition

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at all times. Any receptacle or container which does not conform to the requirements of this Ordinance, or which has ragged or sharp edges or any other defects likely to hamper or injure the person collecting the contents therefrom or the public generally, shall be promptly replaced by the user thereof.

- 6-115 Household Furniture and Furnishings.** Property owners, themselves or using public or private haulers, shall remove normal household furniture and appliances, including sofas, chairs, beds, refrigerators, washers, dryers, hot water heaters, and similar items. These items shall be disposed of in conformity with this ordinance and any applicable state law.
- 6-116 Cardboard Boxes and Cartons.** Prior to depositing cardboard boxes and cartons for collection in authorized containers or receptacles or in commercial containers, the person disposing of any such boxes or cartons or the person in charge of the premises shall collapse all cardboard boxes and cartons.
- 6-117 Covered Trucks.** All persons who desire to haul solid wastes over roads which are a part of county or state road systems shall use a vehicle provided with a cover and operated it so as to prevent solid wastes from being dropped, blown, or spilled therefrom. Any vehicle operated by a commercial hauler and any vehicle of one-half (½) ton or greater capacity shall be equipped with a cover, securely fastened, to prevent solid wastes from being dropped, blown or spilled therefrom.
- 6-118 Maintenance.** It shall be the duty and responsibility of the owner of any private property and the tenant in possession of any private property, jointly and severally, to keep the property in an orderly condition and maintained so as not to be a public nuisance or a menace to public health.
- 6-119 Burning.** No garbage, solid wastes, litter or other trash shall be burned as a private means of disposal except leaves, trimmings and the like. These items may be burned if a burn permit is first obtained from the State Forestry Commission. This provision shall not be construed to prohibit commercial incinerators where appropriate and necessary approval from county, state and federal authorities are required.
- 6-120 Handbills and Advertising Matter.** In addition to the activities declared to be in violation of this Ordinance, the following activities are hereby declared to be unlawful and shall constitute a violation of this Ordinance.

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1. It shall be unlawful to place in or on any automobile in the county any handbill, circular, pamphlet, poster, or other literature unless the same is secured so as to prevent wind-driven debris and unsightly litter.

2. It shall be unlawful for any person to place on any private property any handbill, circular, pamphlet, poster, postcard, newspaper or other literature or advertising device, unless the following conditions are met:

A. All such publications and materials shall be placed in a box provided for that purpose or placed in a secure area of a building such as a door jamb or screen door, unless the distributor or such materials agrees to "sweep" the distribution area and retrieve all remaining items within 4 days of distribution. This procedure shall be referred to as "sweeping".

(i) If "sweeping" is to be performed by a distributor of materials, advanced notice of the intention to utilize such procedure must be given to the County.

(ii) Failure to provide proper notice of "sweeping" procedures by a distributor shall constitute a violation of this section.

(iii) Failure to timely and adequately perform an approved "sweeping" procedure shall constitute a violation of this section.

B. No such publication shall be thrown, dropped or otherwise placed upon public right of way;

C. No publication shall be thrown, dropped or otherwise placed upon any private property which is vacant or unoccupied; and

D. No such publication shall be thrown, dropped or otherwise placed upon any private property if the owner of said property has notified the publisher in writing that he does not wish to receive the publication. Absent a written expression of intent to the contrary, all property owners shall be presumed to consent to delivery by such means.

6-121 Dead Animals.

1. Any person who owns or is caring for an animal which has died or has been killed shall dispose of said dead animal in the manner provided for under Georgia Law.

2. The term "dead animals" means the carcasses, parts of carcasses, effluence, or blood of farm livestock, including poultry and equines, except where dead animals are found within

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the rights of way of all highways within the state maintained either totally or in part with state funds, in which case "dead animals" means the carcasses or parts of carcasses of all animals, regardless of whether they are considered to be farm livestock, poultry, equines, domesticated animals, pets, or any other type of animal and includes all such animals regardless of the cause of death of such animals.

3. Acceptable methods for disposal of dead animals are burning, burial, or rendering. It is the duty of the Georgia Department of Transportation to remove and dispose of dead animals found within the rights of way of state highways. It shall be the Road Department's responsibility to remove and dispose of dead animals found within the rights of way of county roads. Where dead animals are found outside of the rights of way of state highways, no person shall dispose of a dead animal by burial or burning on the land of another without the permission of the owner of the land. Arrangements for proper burial or burning must be made with an appropriate county official prior to disposal of a dead animal in a County Municipal Landfill.

6-122 Composting. Composting is an acceptable means of handling yard trash, tree and shrubbery trimmings, leaves, grass clippings or other organic wastes produced by landscaping and lawn maintenance activities. Composting shall be performed in a manner to minimize offensive odors and prevent escape of wind blown litter from the compost site. Composting activities shall be conducted so as not to constitute a nuisance to neighboring property owners.

6-123 Lead Acid Vehicle Batteries. No person shall place or dispose of a lead acid vehicle battery in any container, dumpster, or landfill located in Bryan County, Georgia, or otherwise discard or dispose of a lead acid vehicle battery except by delivery to a battery retailer or wholesaler, to a secondary lead smelter, or to a collection or recovered materials processing facility that accepts lead acid vehicle batteries.

6-124 Motor Oil. No person shall place or dispose of motor oil in any container, dumpster, or landfill located in Bryan County, Georgia, or otherwise discard or dispose of motor oil except by delivery to a county recycling collection facility or a disposal facility authorized and specifically designed to accept motor oil.

6-125 Recyclable Material. The collection, transportation, handling, storage and conversion of recyclable materials shall be permitted so long as such activities conform to the requirements of Federal, State and County laws or rules.

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6-126 Biomedical Wastes. All biomedical wastes shall be handled and disposed of in accordance with the Rules of the Georgia Department of Natural Resources, Environmental Protection Division and the Georgia Comprehensive Solid Waste Management Act of 1990, as now or hereafter amended.

6-127 Community Health and Welfare.

1. Declared Nuisances. Within the county, it shall be unlawful for any person to create a nuisance on his property or property occupied by him, or to allow a nuisance to remain on his property or property occupied by him. Dead animals, stagnant water, decayed vegetables or fruits, filthy privies or unkept stables or anything having an offensive odor, or anything that causes injury or damage to the health or life of any other person, are declared nuisances.

2. Trash and Weeds.

A. Within the county, it shall be unlawful for any person to maintain his premises, including vacant lots or land, in such a way as to allow trash, garbage or miscellaneous solid wastes to accumulate if the condition of the property causes a nuisance, or causes injury to the health or welfare of residents in the vicinity, or causes injury to neighboring property. Drive-in restaurants and other food establishments that permit carry-out food service shall maintain at all times on their premises sufficient receptacles for the disposal of trash, garbage and miscellaneous solid wastes.

B. Within the county, it shall be unlawful for any person to maintain, cause or permit uncut grass or weeds on any property on which is located a residential dwelling or commercial establishment or vacant property intended for such use under such circumstances that the grass or weeds become a breeding place for insects, rodents or reptiles, or constitute a fire hazard.

6-128 Enforcement.

1. Enforcing Officer.

A. The Board of Commissioners shall name, an employee(s) of the County to oversee all matters concerning the enforcement of this Ordinance; such person to be known as the Code Enforcement Officer(s).

B. The Board of Commissioners shall name a person(s) to be Monitors. Such Monitors shall patrol, inspect and monitor dumpster and container sites to insure compliance with this

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Ordinance. The Monitor(s) shall report their findings to the Code Enforcement Officer described in the preceding section of this Ordinance.

C. The Code Enforcement Officer, the Sheriff and any deputy of the Bryan County Sheriff's Office, shall be authorized to issue citations to violators of any provision of this Ordinance or to the owner or any other person who may be in possession of any property upon which any condition exists which constitutes a violation of any provision of this Ordinance. Such citation shall be on a form approved for such use by the Board of Commissioners and shall state the time and place at which the accused is to appear for trial, shall identify the offense with which the accused is charged, shall have an identifying number by which it shall be filed with the Court, shall indicate the identity of the accused and the date of service, and shall be signed by the representative of the County who completes and serves it.

2. Rebuttable Presumptions.

A. Whenever solid waste is thrown, deposited, dropped, or dumped from any motor vehicle, boat, airplane, or other conveyance in violation of this Ordinance, it shall be prima-facie evidence that the operator of the conveyance has violated this Ordinance. In the case of a commercial or private hauler if the operator is unknown, then it shall be prima-facie evidence that the company or owner of the service has violated this Ordinance.

B. Whenever any solid wastes which is dumped, deposited, thrown, or left on public or private property in violation of this Ordinance is discovered to contain any article or articles, including but not limited to letters, bills, publications, or other writings which display the name of a person thereon in such a manner as to indicate that the article belongs or belonged to such person, it shall be a rebuttable presumption that such person has violated this Ordinance. If such person can show that he lawfully gave possession, custody and control of such solid wastes to another person, then he shall make a sworn statement to such effect, supported by any documentary evidence available, at which point the presumption shall shift to such other person(s).

C. Whenever this Ordinance is violated by an employee or agent, then the employer or principal shall be rebuttably presumed to have violated this Ordinance unless and until he shall provide a sworn statement providing the name, address and telephone number of the employee or agent who violated this Ordinance, the basis of the employer's or principal's knowledge of which individual violated this ordinance, and a statement to the effect that the employee or agent acted outside the scope of his employment or agency.

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D. If a person accused of violating this Ordinance on the basis of the rebuttable presumptions created in Paragraphs A, B and C herein, shall demonstrate by sworn testimony that another person had control of such litter, then the presumption shall shift to such other person.

E. No person accused of violating this Ordinance shall be arrested prior to trial, but any defendant who fails to appear for trial shall thereafter be arrested on the warrant of the Magistrate, and required to post a bond for his future appearance.

6-129 Penalties.

1. Any person violating this Ordinance or any provision hereof, upon conviction, shall be punished by one or more of the following:

A. By a fine of not less than \$50.00 and not more than \$1000.00;

B. By imprisonment for a period of not more than sixty (60) days;

C. In the sound discretion of the Judge of the Magistrate Court in which a conviction is obtained, the person may be directed to pick up and remove from any public street or highway or public right of way for a distance not to exceed one mile any litter he has deposited and any and all litter deposited thereon by anyone else prior to the date of execution of sentence;

D. In the sound discretion of the Judge of the Magistrate Court in which conviction is obtained, the person may be directed to pick up and remove from any public park, private right of way, or with the prior permission of the legal owner or tenant in lawful possession of any private property upon which it can be established by competent evidence that he had deposited litter, any and all litter deposited thereon by anyone prior to the date of execution of sentence; and

F. The Magistrate Court may publish the names of persons convicted of violating this Ordinance.

6-130 Court Proceedings.

1. Violations of this Ordinance shall be tried upon citations and may be tried with or without a prosecuting attorney as well as upon accusations.

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2. Violations of this Ordinance shall be tried in the Magistrate Court of Bryan County, Georgia.

3. Nothing in this Article shall prevent the Board of Commissioners from bringing any civil action for injunction, mandamus or other proceedings to prevent, correct, or abate any violation of this Ordinance. No sanction, penalty or remedy prescribed herein shall be considered exclusive of any other remedy, but shall be available in addition to any other sanction, penalty or remedy by law.

4. Each violation of this Ordinance shall constitute a separate offense. A continuing violation shall constitute a separate offense for each day during which such violation continues.

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ARTICLE II: FOR HIRE GARBAGE COLLECTORS

6-201 Title. The title of this Ordinance shall be "The Bryan County For Hire Garbage Collectors Ordinance."

6-202 Definitions. "for hire garbage collectors" means and includes all persons, firms, partnerships, limited or otherwise, corporations and other business entities engaged in the collection and/or pickup of trash, rubbish, garbage and any other waste materials from any home, residence, apartment, mobile home park, condominium, plant, factory, warehouse, or any other dwelling or group of dwellings or place of business in the unincorporated areas of Bryan County, Georgia in exchange for a fee or any other monetary consideration.

6-203 Jurisdiction. This Ordinance shall be effective and applicable in Bryan County, Georgia, outside the corporate limits of any municipality therein.

6-204 Rules and regulations. Original jurisdiction for all violations of this Ordinance shall be in the Magistrate's Court of Bryan County, Georgia. The following rules and regulations are hereby established and shall govern the conduct and operation of each and every for hire garbage collector operating in Bryan-County, Georgia outside the corporate limits of any municipality:

1. All such businesses operating hereunder must fully comply with all sanitary requirements promulgated by the Bryan County Health Department.
2. All trash, rubbish, garbage and any other waste materials collected by for hire garbage collectors must be dumped, unloaded or otherwise discharged in Bryan County's permitted landfills, or other permitted regional facilities. It shall be illegal for hired garbage collectors to deposit waste collected in the county maintained dumpster sites.
3. All trash, rubbish, garbage and any other waste materials collected by for hire garbage collectors must not be dumped, unloaded or otherwise discharged in Bryan County, Georgia except during the times set by a time schedule for such dumping by the governing authority of Bryan County, Georgia.
4. All for hire garbage collectors must follow all rules promulgated by the Environmental Protection Division (EPD) to obtain and maintain a permit for hauling waste materials within the boundaries of Bryan County.

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6-205 Prosecution and penalty for violations.

1. Any person convicted of violating any of the provisions of this Ordinance shall be subject to a fine not exceeding one thousand dollars (\$1,000.00) and imprisonment in the Bryan County Jail not exceeding thirty (30) days, either or both or any portion of either or both; and provided further, that upon the conviction of any "for hire garbage collector" of a violation of this Ordinance, the commissioners shall be authorized to order that such "for hire garbage collector" cease and desist operations, if such action is in the best interest of the health, safety and welfare of the residents of the county.

2. For the purpose of prosecution of violators of the Ordinance, each and every violation of every separate section hereof shall be considered a separate offense.

6-206 Possession and reading of ordinance It shall be the duty of the management of all for hire garbage collectors to maintain a copy of this Ordinance and to instruct all employees on the terms thereof.

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separate containers, which will be designated by color to be used for specific recyclable materials. A list of specific materials to be stored in specific containers shall be maintained at city hall. All recyclable materials shall have been emptied of all liquid and solid contents. All recyclable materials in the appropriate container shall be placed as near as possible to the street or sidewalk for pickup on the scheduled day but shall not be placed in a manner to block the street or sidewalk. (Ord of 7/12/1994)

- (e) The provisions of this section may be waived for persons who are physically handicapped because of age or infirmity to the extent that complying with this section would work an undue hardship upon such persons. (Ord. of 12/9/86; Ord of 7/12/1994)

Sec. 4-2-6

Grass clippings; limbs.

- (a) Grass clippings, pine straw and leaves shall be placed on the street curb on pickup day. These items must be secured in disposable plastic bags of a type, size and material designed for solid waste storage and disposal. Disposable bags shall be unbroken and securely sealed and loaded in such a manner that normal handling will not cause the bag to open. No bag that cannot be loaded by one (1) person shall be collected.
- (b) Fallen limbs, trees, cut limbs, cut trees and trash of this category shall be cut by the property owner into lengths of not more than four (4) feet. Other trash which shall include yard wastes, weeds, grass, trimmings, leaves, brush and pine straw must be bagged. All trash and cuttings shall be placed as near as possible to the street or sidewalk right-of-way adjacent to the property owner's property but not so as to get into the street or block the sidewalk. At no time shall trash be placed in gutters, drains, walkways or alleys or streets of the city.

Sec. 4-2-7

Fees.

The city council shall prescribe fees for collecting and disposing of solid waste. Fees may be set by motion in the usual course of business for each fiscal year. (Ord. of 12/9/1986)

Sec. 4-2-8

Unauthorized accumulation of solid waste nuisance.

Any unauthorized accumulation of solid waste on any premises is hereby declared to be a nuisance and is prohibited. Failure to remove any existing accumulation of solid waste within a reasonable time as may be fixed by written notice from the city shall be deemed a violation of this code.

Sec. 4-2-9

Scavenging.

No person other than the owner thereof shall interfere with any container placed for the purpose of storing solid waste pending collection, or remove or take any of the contents thereof, or remove any container from the

CODE OF ORDINANCES
CITY OF
RICHMOND HILL, GEORGIA

Appendix I.

Codified through
Ordinance of March 4, 2008.
(Supplement No. 3)

ARTICLE III. LITTERING*

*Cross references: Solid waste, ch. 54.

Sec. 34-76. Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning: *Litter* means all discarded sand, gravel, slag, brickbats, rubbish, waste material, tin cans, refuse, garbage, trash, debris, dead animals, or other discarded materials of every kind and description which are not waste as such term is defined in O.C.G.A. § 16-7-51(6).

Public or private property means the right-of-way of any road or highway; any body of water or watercourse or the shores or beaches thereof; any park, playground, building, refuge, or conservation or recreation area; and residential or farm properties, timberlands, or forests.

Cross references: Definitions generally, § 1-2.

State law references: Similar provisions, O.C.G.A. § 16-7-42.

Sec. 34-77. Littering public or private property or waters.

(a) It shall be unlawful for any person to dump, deposit, throw or leave, or to cause or permit the dumping, depositing, placing, throwing or leaving of litter on any public or private property in this city or any waters in this city unless:

(1) The property is designated by the state or by any of its agencies or political subdivisions for the disposal of litter and the person is authorized by the proper public authority to use such property;

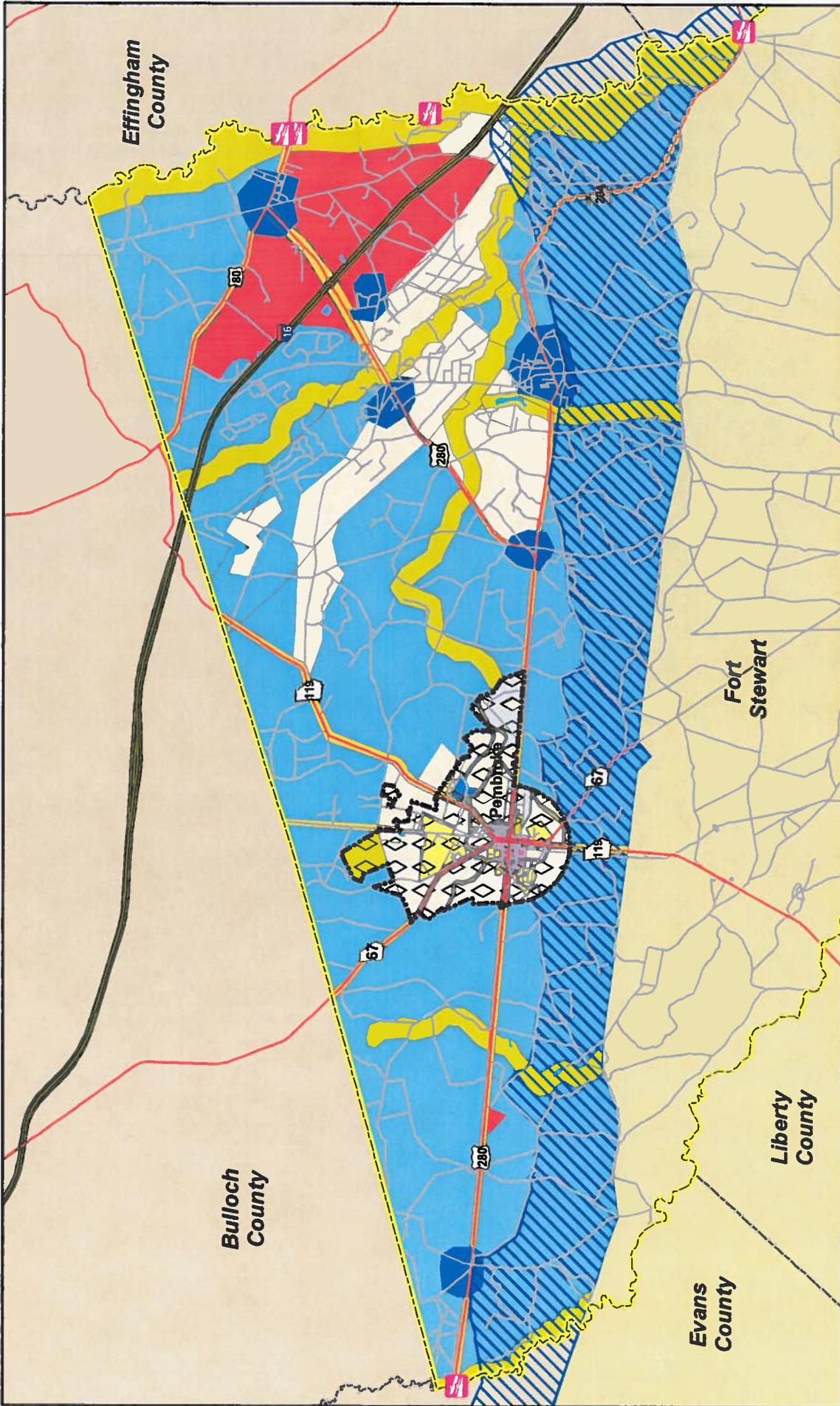
(2) The litter is placed into a litter receptacle or container installed on such property; or
(3) The person is the owner or tenant in lawful possession of such property or has first obtained consent of the owner or tenant in lawful possession or unless the act is done under the personal direction of the owner or tenant, all in a manner consistent with the public welfare.

(b) Any person who violates subsection (a) of this section shall be guilty of a misdemeanor and, upon conviction thereof, shall be punished as follows:

(1) As provided in section 1-12;

(2) In the sound discretion of a court in which conviction is obtained, the person may be directed to pick up and remove from any public street or highway or public right-of-way for a distance not to exceed one mile any litter the person has deposited and any and all litter deposited thereon by anyone else prior to the date of execution of sentence; or

(3) In the sound discretion of the judge of a court in which conviction is obtained, the person may be directed to pick up and remove from any public beach, public park, private right-of-way,



Coastal Georgia Regional Development Center

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Future Development
North Bryan County
Georgia

Future Development South Bryan County Georgia



Legend

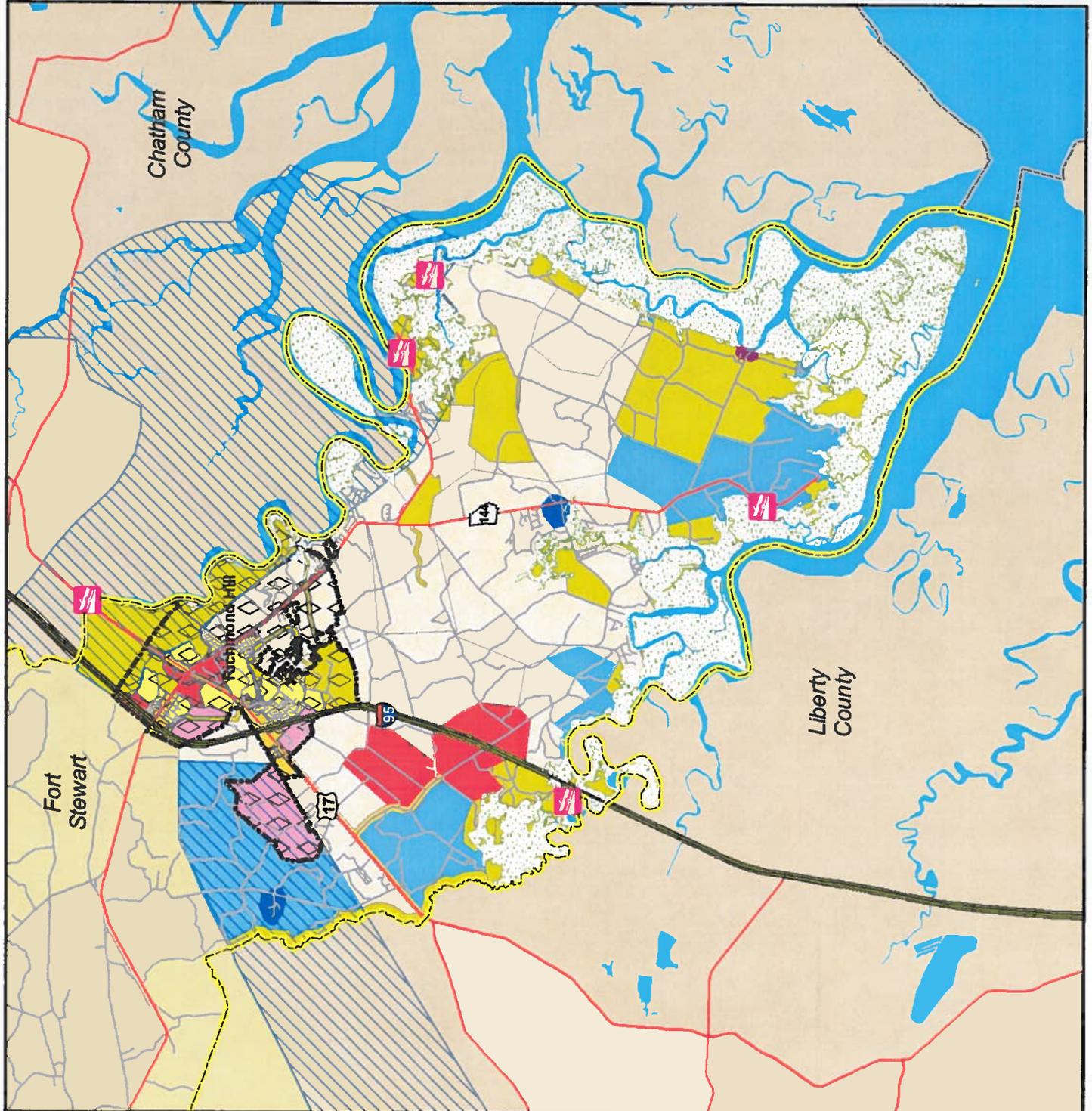
- Boat Ramp
- Marsh
- Interstate
- State Highway
- Roads
- ACUB Boundary
- Fort Stewart
- County Future Development
- Regional Commercial
- Conservation
- Corridor/Gateway
- Crossroad Community
- Rural Residential/Agriculture
- Suburban Developing
- Kilikenny
- Richmond Hill Future Development
- Commercial
- Conservation
- Corridor/Gateway
- Suburban Developing
- Mixed Use
- Traditional Residential
- Water
- City Boundaries
- Bryan County Boundary
- County Boundaries



Coastal Georgia
Regional Development Center

Geography Information Systems/Information Technology Department
December 2006

2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100



Future Development

City of Richmond Hill
Bryan County
Georgia



Legend

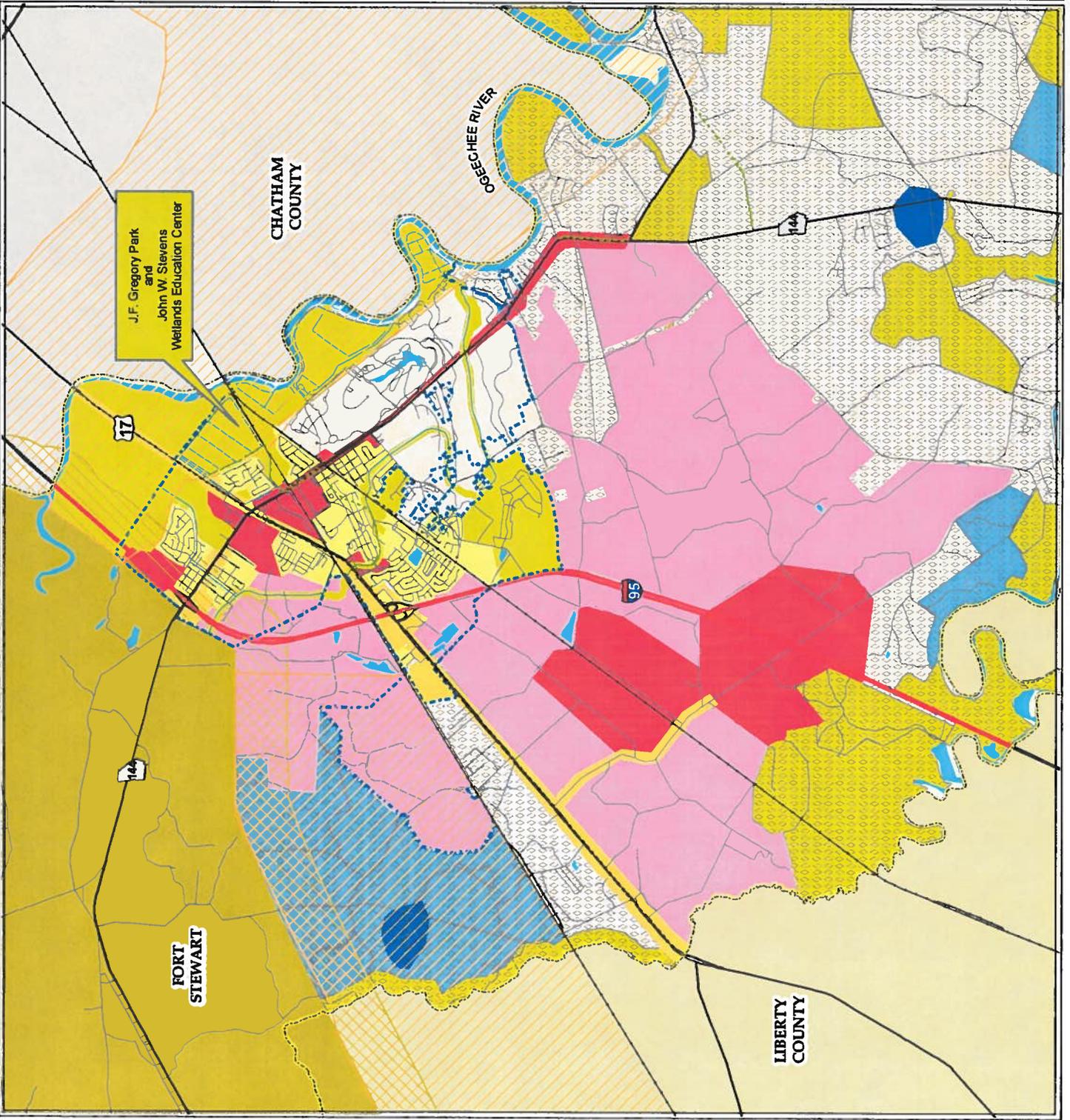
- Interstate
- State Highway
- Roads
- Railroads
- Greenway Bicycle Route
- Streams and Canals
- Rivers and Lakes
- Fort Stewart
- Fort Stewart Buffer
- ACUB Boundary
- City Boundary
- Bryan County
- Chatham County
- Liberty County
- Future Development Richmond Hill
- Commercial
- Conservation
- Corridor/Gateway
- Suburban Developing
- Mixed Use
- Traditional Residential
- Future Development Bryan County
- Conservation
- Corridor/Gateway
- Crossroad Community
- Regional Commercial
- Rural Residential/Agriculture
- Suburban Developing



Coastal Georgia
Regional Development Center

Geographic Information System/Map Information Technology Dept. Issues
October 2004

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Future Development City of Pembroke Bryan County Georgia

FINAL
Date of Adoption
October 13, 2008



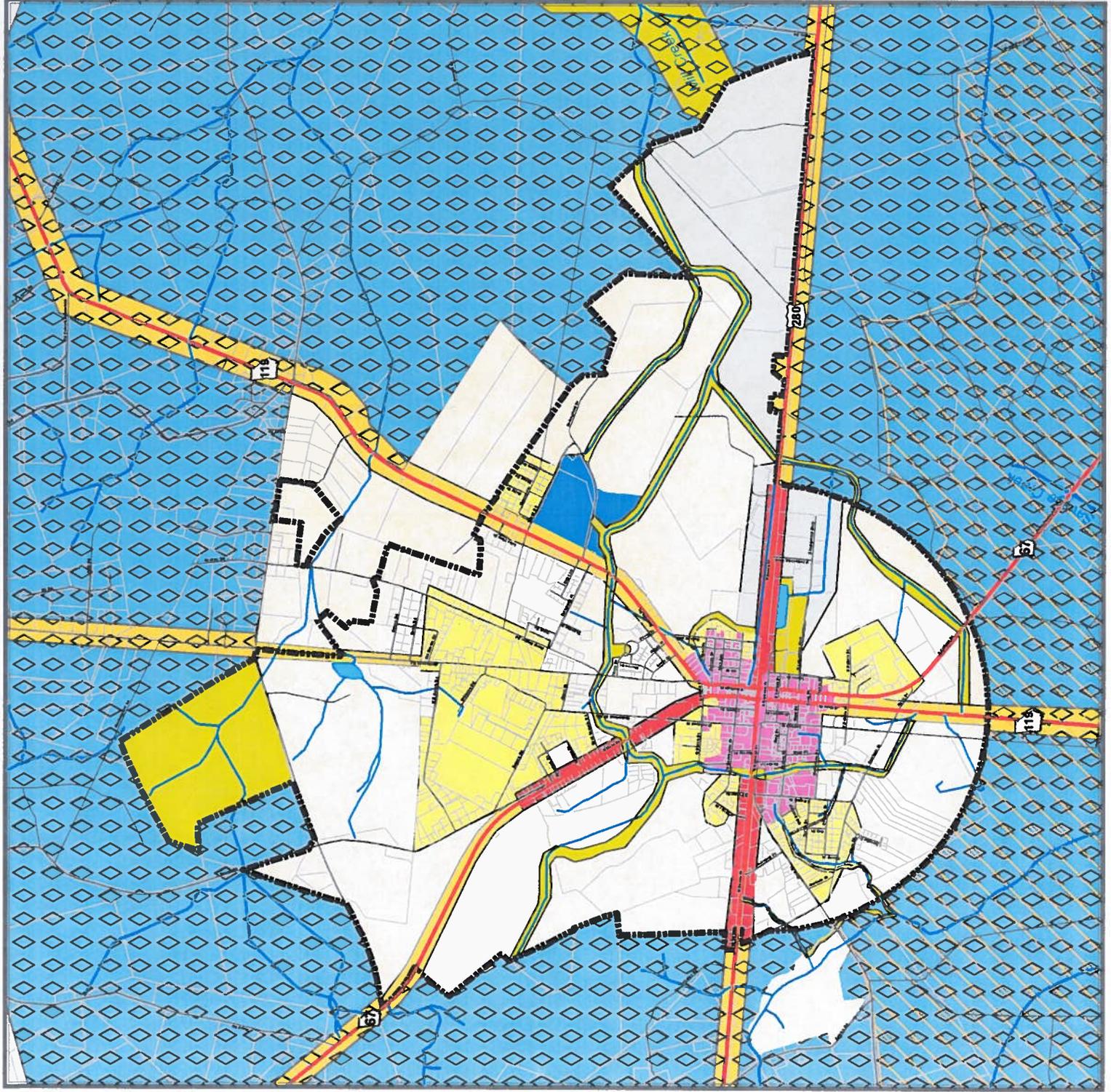
- Legend**
- City Boundary
 - ACUB Boundary
 - State Highway
 - Roads
 - Rivers and Streams
 - Lakes and Ponds
 - Pembroke Future Development**
 - Conservation
 - Educational Campus
 - Gateway
 - Highway Commercial
 - Historic Pembroke
 - Industrial
 - Suburban Developing
 - Traditional Neighborhood
 - County Future Development
 - Corridor/Gateway
 - Rural Residential/Agriculture
 - Conservation



Geographic Information Systems/Information Technology Department
December 2008

Source: City of Pembroke &
Coastal Georgia Regional Development Center

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(b) **Conditional Uses:** The following Uses may be permitted in this District on a conditional basis upon approval by the County Commission: (Revised-3/3/98)

(i) Schools.

(ii) Day Care Center Facilities.

(iii) One residential Dwelling Unit per Lot as an Accessory Use within the same structure as the commercial activity. (Revised-2/1/05)

(c) **Lot and Building Requirements:**

Minimum Lot Area.....	30,000 Square Feet
Minimum Lot Width at Building Line...	150 Feet
Minimum Front Setback.....	75 Feet
Minimum Rear Setback.....	50 Feet
Minimum Side Setback, Road.....	35 Feet
Minimum Side Setback, Interior.....	30 Feet
Maximum Percent of Lot Coverage.....	30%

(d) **Special Site Regulations:**

(i) Maximum percent of gross land to be covered.....60%
(Revised-3/3/98)

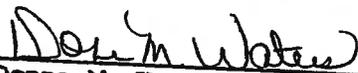
(ii) Minimum open space required..... 25%

Section 1116. "WP" Waste Management District:

District Intent: This District is established to provide land for waste treatment and disposal in locations which meet strict criteria for protection of other land Uses and the environment. The District's regulations are designed to provide a compatible environment for waste processing and treatment facilities so that they will not be encroached upon by other Uses or be adversely effected by nearby conflicting land Uses. Lands designated for Waste Management should be located in relation to the transportation systems it will utilize so that it will not disrupt normal traffic flow patterns within the County. Due to the special nature of waste and the potential health and environmental risks involved, this District will be only designated on the Zoning Map in response to a specific rezoning request by an applicant.

(a) **Permitted Uses:** Medical waste treatment and incineration, hazardous waste processing, sewerage treatment, solid waste processing and recycling services.

Adopted: November 7, 1995


Donna M. Waters, County Clerk

Engineers. All applications for a Waste Management District must be accompanied by a wetlands delineation of the site and must demonstrate that all processing, storage or disposal of waste products will be outside of wetlands areas.

Section 1117. "WB-1, WB-2, WB-3" Waterfront Business and Commercial Districts:

District Intent: It is the intent of this District that the environmentally sensitive nature of waterfront and marshfront locations be considered and protected. When applying for a Building Permit in a "WB" District, the applicant must certify compliance with all applicable state, federal and County laws, codes or regulations.

(a) **"WB-1" Waterfront Business:**

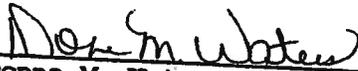
(i) **Permitted Uses:**

- (1) Marinas for private, recreational watercraft (no length limit), including enclosed dry storage and docking with ramp and lift equipment.
- (2) Small convenience stores including bait, tackle, marine supplies and accessories. Beer and wine sold to be consumed off-premises only. (may serve both water and land customers)
- (3) Gas and Fuel facilities for both boats and Vehicles. (no repair facilities)
- (4) Customary Accessory Buildings and Uses incidental to the above Permitted Uses and any Conditional Uses permitted by the County Commission. (Revised-3/3/98)

(ii) **Conditional Uses:** The following Uses may be permitted in this District on a conditional basis upon approval by the County Commission: (Revised-3/3/98)

- (1) Commercial fishing boats under twenty-five (25) feet in length. (no storage, packing, or processing facilities)

Adopted: November 7, 1995


Donna M. Waters, County Clerk

Appendix L: Maps showing areas not suitable for siting solid waste facilities(See Section 6: Land Limitation Element for details)

Floodplains* – DNR Rule 391-3-4-.05 (1)(d) stipulates any solid waste landfill located within the 100-year floodplain shall not restrict the flow of the 100-year flood, reduce temporary water storage capacity of the flood plain, or result in a washout of solid waste so as to pose a threat to human health of the environment. See Figures 6.1 and 6.2 below for an illustration of floodplains in the northern and southern portions of the County as mapped by the Bryan County GIS office on behalf of all three jurisdictions.

Wetlands* – DNR Rule 391-3-4-.05 (1)(e) prohibits the development of solid waste landfills in wetlands, as defined by the U.S. Army Corps of Engineers, unless evidence is provided by the applicant that use of the wetland has been permitted or otherwise authorized under all other applicable state and federal laws and rules. See Figures 6.1 and 6.2 below for an illustration of wetlands in the northern and southern portions of the County as mapped by the Bryan County GIS office on behalf of all three jurisdictions.

Key to Floodplain and Wetlands Reference Map

Zone - A corresponds to the 100-year flood plains that is determined in the Flood Insurance Study by approximate methods. Because detailed hydraulic analyses are not performed in such areas, no Base Flood Elevations or depths are shown within this zone. Mandatory flood insurance purchase requirements apply

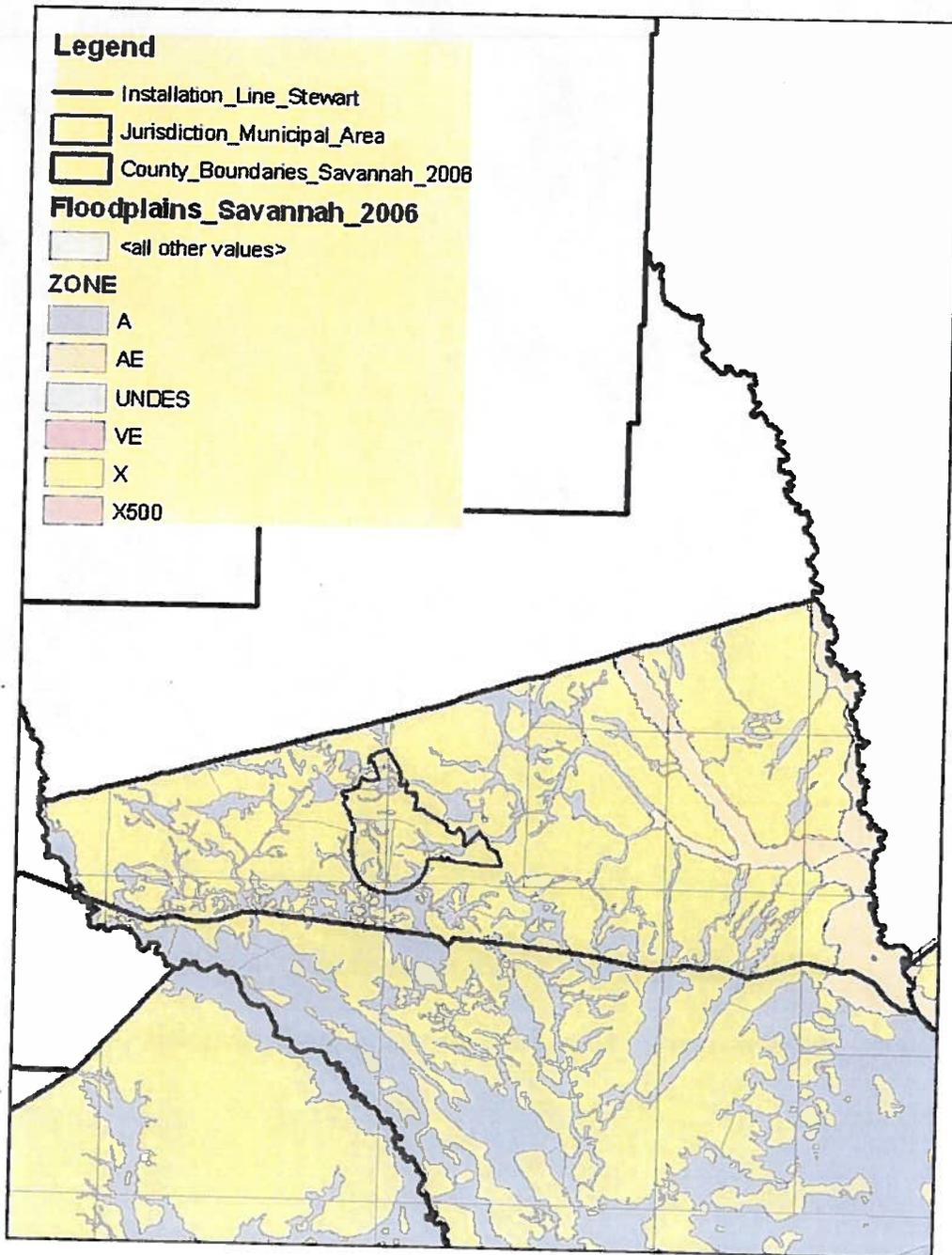
Zone - AE corresponds to the 100-year flood plains that is determined in the Flood Insurance Study by detailed methods. In most instances, Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

Zone - D is used for areas where there are possible, but undetermined, flood hazards, In areas designated as Zone D, no analysis of flood hazards have been conducted. Mandatory flood insurance purchase requirements do not apply, but coverage is available.

Zone - B, C and X corresponds to areas outside the 100-year flood plains, areas of 100-year sheet flow flooding where average depths are less than 1 foot, areas of 100-year stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 100-year flood by levees. No Base Flood Elevations or depths are shown within this zone

Not listed but with mandatory flood insurance purchase requirements are Zones: **A1- A30, A-99, AH, AO, V and VE**

Floodplain and Wetlands map, North Bryan County and Pembroke



Floodplain map an Wetlands map, South Bryan County and Richmond Hill

