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**Solid Waste Management Plan
for the
City of Buford, Georgia**

2008-2019

March 2, 2010 DRAFT

Prepared by



Table of Contents
Solid Waste Management Plan

Executive Summary	iii
1 Introduction	1-1
1.1 Planning Area.....	1-1
1.2 Plan Contact.....	1-1
1.3 Overview of Planning Area	1-1
1.3.1 City of Buford	1-1
1.3.2 Topographic Information/Unique Features.....	1-2
1.4 Population and Households.....	1-2
1.4.1 Population Projections	1-2
1.4.2 Seasonal Population Variation.....	1-2
1.4.3 Households.....	1-3
1.5 Economic Activity and Business Climate.....	1-3
1.5.1 Industry Mix by NAICS Code	1-3
1.5.2 Employment by Sector.....	1-4
2 Waste Disposal Stream Analysis.....	2-1
2.1 Inventory of disposed waste.....	2-1
2.1.1 Waste characterization	2-3
2.1.2 Unique Conditions and/or Seasonal Variations	2-4
2.1.3 Waste Generating Disasters	2-5
2.2 Projections of Waste to be Disposed	2-5
2.3 Per Capita MSW Disposal Reduction Goal	2-6
3 Waste Reduction Element.....	3-1
3.1 Inventory of Waste Reduction Programs.....	3-1
3.1.1 Source Reduction	3-1
3.1.2 Recycling	3-2
3.1.3 Yard Trimmings Programs and Facilities	3-5
3.1.4 Items Requiring Special Handling.....	3-6
3.2 Disaster Debris Management – Waste Reduction Strategy	3-7
3.3 Assessment of Waste Reduction Program	3-7
3.4 Needs and Goals	3-8
4 Collection Element.....	4-1
4.1 Inventory of Collection.....	4-1
4.1.1 Inventory of Existing Programs	4-1
4.1.2 Contingency Strategy.....	4-4
4.1.3 Disaster Debris Management – Collection Strategy	4-4
4.2 Assessment of Collection Programs	4-5
4.3 Inventory of Illegal Dumping/Littering	4-5
4.4 Assessment of Programs to Address Illegal Disposal/Dumping	4-6
4.5 Needs and Goals	4-6

5	Disposal Element.....	5-1
5.1	Inventory of Solid Waste Disposal Facilities.....	5-1
5.1.1	Assurance of 10-Year Capacity	5-2
5.1.2	Contingency Strategy.....	5-2
5.1.3	Disaster Debris Management – Disposal Strategy.....	5-2
5.2	Assessment Disposal.....	5-3
5.3	Statement of Needs and Goals	5-3
6	Land Limitation Element.....	6-1
6.1	Inventory Land Areas	6-1
6.1.1	Inventory Areas with Natural Environmental Limitations	6-1
6.1.2	Inventory with Land Use Limitations.....	6-2
6.2	Local Procedures for Siting Solid Waste Facilities	6-4
6.2.1	Plan for Ensuring Plan Consistency.....	6-4
6.2.2	Procedure for the Notification of the Public.....	6-5
6.3	Assessment of Land Limitation	6-5
6.4	Statement of Needs and Goals	6-6
7	Education and Public Involvement Element.....	7-1
7.1	Inventory of Existing Public Education Programs and Public Involvement Opportunities.....	7-1
7.2	Assess Adequacy of Environmental Education Initiatives	7-3
7.3	Statement of Needs and Goals	7-5
8	Implementation Strategy.....	8-1
8.1	Summary of Needs and Goals.....	8-1
8.2	Implementation Strategy/Short Term Work Program.....	8-2

Appendix

- Public Hearing One Information
- Public Hearing Two Information
- Landfill Capacity Letter
- Plan Submittal Resolution
- Transmittal Affidavit
- Adoption Resolution

Executive Summary

Providing a high quality solid waste management system is central to preserving a high quality of life, protecting the environment, and maintaining a clean and healthy city. The City of Buford's Solid Waste Management Plan for 2008 to 2019 is a manifestation of the City's attention to these values and adherence to the State of Georgia's planning requirements for solid waste management.

Background

The Georgia Comprehensive Solid Waste Management Act, O.C.G.A. §12-8-20 et seq., requires every locality in Georgia to create and maintain a Solid Waste Management Plan. The Georgia Department of Community Affairs (DCA) subsequently established the Minimum Planning Standards and Procedures for Solid Waste Management, most recently update in January 1, 2004. This plan updates and replaces the City's original SWMP and is developed inline with State of Georgia standards and procedures along with additional guidance from DCA.

Content

This plan covers the five core elements of solid waste planning along with an introduction (Sec. 1), waste stream analysis (Sec. 2), and ten year implementation program (Sec. 8). The five core elements for solid waste planning are waste reduction (Sec. 3), solid waste collection (Sec. 4), solid waste disposal (Sec. 5), land limitation (Sec. 6), and education and public involvement (Sec. 7). Combined, these elements represent a comprehensive approach to managing municipal solid waste.

Key Findings and Action Items

- All in all, the assessment of the City of Buford's existing waste collection and disposal processes indicates that the system is effective and efficient. The City provides curbside collection of residential waste and currently has a five year franchise agreement with United Waste Service for collection of all commercial and industrial waste. Both the residential and commercial/industrial waste streams are brought to the BFI – Richland Creek Landfill, which has sufficient capacity to meet Buford's waste disposal needs for the planning period.
- The majority of Buford's waste originates from the industrial sector, averaging 41 percent of the waste stream between 2004 and 2008. The residential and commercial sectors fluctuate slightly, but generally hover around 30 percent of the total waste disposed. The City's average municipal solid waste disposal rate from 2004 to 2008 was 18.8 lbs/person/day.
- One of the key driving elements behind this Plan is the State's solid waste reduction objective "that every effort be undertaken to reduce on a state-wide per capita basis the amount of solid waste being received at disposal facilities" (GA Comprehensive Solid Waste Management Act of 1990). Buford's Plan sets a 23 percent reduction goal for the City of Buford's per capita solid waste over the planning period, which is consistent with both Gwinnett County and State of Georgia reduction goals. If this goal is achieved, the per capita waste disposal rate would be reduced to 14.5 lbs/person/day by 2019.
- To achieve this waste reduction goal, the City will need to work in partnership with area businesses, residents, and Keep Georgia Beautiful affiliates to increase recycling and waste reduction efforts. The City can increase awareness and educate its residents and businesses of recycling opportunities and recycling centers available in our area. Other key action items of this plan include working with the Gwinnett Emergency Management Agency to complete its Disaster Debris Management Plan, stay current on state planning and environmental regulations for solid waste management, and to maintain and update solid waste collection fleets and contract arrangements. These items are listed in the Implementation Program.

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SECTION I INTRODUCTION

All local governments in the State of Georgia are required to comply with the state Comprehensive Solid Waste Management Act, O.C.G. A. §12-8-20 et seq. in order to be eligible to receive solid waste grants, loans and permits. To that end, the City contracted with Jordan, Jones, and Goulding (JJG) to assist in the preparation of a Solid Waste Management Plan (SWMP) in compliance with provisions of that Act and the Rules of the Georgia Department of Community Affairs, Chapter 110-4-3, known as the Minimum Planning Standards and Procedures for Solid Waste Management, effective January 1, 2004.

The purpose of the City of Buford SWMP and Short Term Work Program (STWP) update is to provide the City with a tool to guide its solid waste management efforts until 2019. This plan serves as a basis for the decision-making process regarding waste collection, waste reduction, waste disposal, public education, public involvement, plan implementation, and implementation financing. This plan is a major update of a previous SWMP first adopted by the City in May 1992, and later updated in 1998 and 2002. Since the plan's last update in 2002, the Minimum Planning Standards were revised and the City has adopted a new Comprehensive Plan. This plan is consistent with both the revised Minimum Planning Standards and the projections and policies of the new Comprehensive Plan.

1.1 Planning Area

This 11 year Solid Waste Management Plan applies to the incorporated areas of the City of Buford, Georgia. The Service Delivery Strategies of Gwinnett County and Hall County confirm that the City of Buford alone is responsible for completing and updating its Solid Waste Management Plan, as required by the Georgia Comprehensive Solid Waste Management Act, O.C.G.A., Section 12-8-20. This law is further defined by the Minimum Planning Standards and Procedures for Solid Waste Management, Chapter 110-403, developed by the Georgia Department of Community Affairs.

1.2 Plan Contact

The City Manager of Buford, Bryan Kerlin, is the primary contact and party responsible for this plan. He can be reached via the following information:

Address: City of Buford
2300 Buford Highway
Buford, GA 30518
Phone: 770-945-6761
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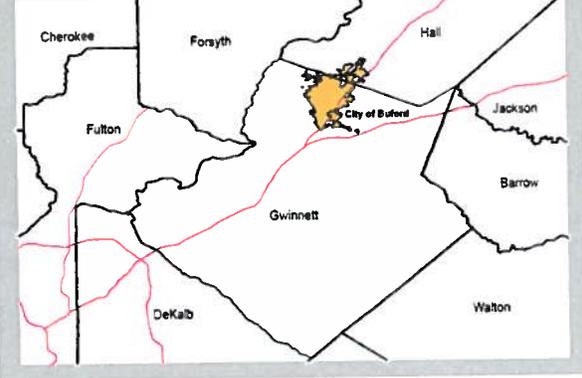
1.3 Overview of Planning Area

1.3.1 City of Buford

All areas of the City of Buford are included in this Solid Waste Management Plan. The City of Buford is located in northeast Georgia and includes areas east and west of the I-985 corridor in

northeastern Gwinnet County and southeastern Hall County as depicted in **Figure 1-1**. Buford’s solid waste management service areas are separated in two categories: residential service area and commercial and service areas.

Figure 1-1. Location Map, City of Buford, Northeast Georgia



1.3.2 Topographic Information/Unique Features

Buford has a relatively flat topography with limited steep slopes. The city’s proximity to regional water resources are the most notable land use features requiring special consideration for solid waste management planning. Parts of the city’s northwest border abut Lake Lanier and the city limits are also in relatively close proximity to the Chattahoochee River. Other sensitive areas that require attention include lands falling within stream buffers and wetlands.

All of these resources are depicted in **Map 6.1** and **Map 6.2** in the Land Limitation Element of the document. *Please see Section 6 for more information on the City’s topography and land limitation elements for solid waste management.*

1.4 Population and Households

1.4.1 Population Projections

Buford’s recently completed 2030 Comprehensive Plan Update projects a positive linear growth trend for the city. The population of Buford is expected to grow by about 2,200 people during the planning period, reaching 14,547 in 2019. This represents a population increase of approximately 18 percent.

Table 1-1: Population Projections, 2008 to 2019
City of Buford

Base Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
12,331	12,532	12,734	12,935	13,137	13,338	13,540	13,741	13,943	14,144	14,346	14,547

Source: Extrapolated from City of Buford 2028 Comprehensive Plan Update, Jordan, Jones & Goulding, Inc.

1.4.2 Seasonal Population Variation

Buford sees a very limited degree of seasonal population variation. Very minor fluctuations occur as a result of seasonal residents living near Lake Lanier, which abuts the northwest city boundary. Census data indicates that less than one percent of the total housing units in the city are seasonal or recreational in manner (2000 Census). Overall, the year-round population is very stable and would have no meaningful impact on city services, including waste management.

1.4.3 Households

The number of households in the City of Buford in 2009 is estimated at 4,565, based on the number of households from the 1980 to 2000 Censuses. **Table 1-2** shows the change in family and non-family households from 1990 to 2009. Approximately 70 percent of households in Buford are estimated as family households, with nearly 25 percent of total households made up of 1 person.

According to the Census, Buford’s housing stock was comprised of 4,009 units in 2000, with the majority of those units being detached single family units.

Table 1-2: Households, City of Buford, 1990, 2000 & 2009

	1990	% of Total	2000	% of Total	2009*	% of Total
1 person household	761	23%	985	26%	1,126	25%
2 or more person household	2,498	77%	2,809	74%	3,439	75%
Family household	2,348	72%	2,579	68%	3,196	70%
Nonfamily household	150	5%	230	6%	243	5%
Total households	3,259	100%	3,794	100%	4,565	100%

Source: U.S. Census Bureau, 1990 and 2000 Census, SF1.

*2009 estimates based on percentage of estimated population.

Table 1-3: Housing Types in Buford, 2000

	Housing Units	% of Total
Detached single family	2,480	61.8%
Attached single family	149	3.7%
Multifamily	864	21.6%
Mobile Homes, Boat, etc.	516	12.87%
Total Housing Units	4,009	100%

Source: US Census Bureau, 2000 Census, SF1.

1.5 Economic Activity and Business Climate

The City of Buford has a broad and healthy economy, which has historically provided a strong tax base and high quality services for residents. In addition, Buford’s already diverse job base is increasingly becoming more diverse. From 1990 to 2000 there have been significant increases in the employment sectors of construction, education and health services, arts and entertainment, and professional services (*City of Buford 2030 Comprehensive Plan Update*). In addition, the City of Buford’s location on the major transportation routes of Interstate 85, Interstate 985, Buford Highway, Peachtree Industrial Boulevard, and Georgia Highway 20 will continue to provide economic growth opportunities for the city.

1.5.1 Industry Mix by NAICS Code

The City of Buford has a diverse industry mix, with the greatest number businesses in the retail trade, construction, and professional, scientific, and technical industries.

City of Buford Solid Waste Management Plan [2008 to 2019]

Table 1-4: Industry Mix, City of Buford, 2006

NAICS Code	Industry Description	Number of Businesses
11	Forestry, fishing, hunting, and agriculture	1
21	Mining	1
22	Utilities	1
23	Construction	360
31	Manufacturing	90
42	Wholesale Trade	129
44	Retail Trade	406
48	Transportation & warehousing	35
51	Information	33
52	Finance & insurance	93
53	Real estate & rental & leasing	115
54	Professional, scientific & technical services	225
55	Management of companies & enterprises	7
56	Admin, support, waste mgt, remediation ser	96
61	Educational services	15
62	Health care and social assistance	97
71	Arts, entertainment & recreation	33
72	Accommodation & food services	147
81	Other services (except public administration)	191
99	Unclassified establishments	5
All	Total	2,080

Source: U.S. Census Bureau, NAICS Zip Code Business Patterns.

1.5.2 Employment by Sector

Buford's 2000 employment figures reflect the predominance of the manufacturing sector. In 2000, 17 percent of the City's employment was concentrated in manufacturing. The next strongest industries were retail trade (16 percent), construction (13 percent), and educational, health, and human services (10 percent). More recent data is not available; however, it is likely that these numbers reflect current employment patterns. Recent slowdowns in the economy would suggest that there is some decline in employment numbers for all sectors, with possibly larger declines in the construction due to a nationwide slowdown in this sector.

Table 1-5: Employment by Industry, City of Buford, 2000

Industry	Number of Employees	% of Total
Total Employed Civilian Population	5,130	100%
Agriculture, Forestry, Fishing, hunting & mining	0	0%
Construction	671	13%
Manufacturing	864	17%
Wholesale Trade	256	5%
Retail Trade	829	16%
Transportation, warehousing, and utilities	209	4%
Information	153	3%
Finance, Insurance, & Real Estate	279	5%
Professional, scientific, management, administrative, and waste management services	469	9%
Educational, health and social services	516	10%

City of Buford Solid Waste Management Plan [2008 to 2019]

Industry	Number of Employees	% of Total
Arts, entertainment, recreation, accommodation and food services	484	9%
Other Services	245	5%
Public Administration	155	3%

Source: U.S. Bureau of the Census, 2000 Census, SF3.

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SECTION 2 WASTE DISPOSAL STREAM ANALYSIS

Reviewing past solid waste data and future projections is critical for adequately planning for the City's future solid waste management needs and reduction goals. This section provides an analysis of waste disposed by the City of Buford and forms the basis for the remainder of this report, providing supporting information for waste reduction, collection, and disposal goals as well as the short term work program. Data is provided by sector and then by type of waste. Projections for future waste generation are also provided.

The City of Buford does not maintain a detailed record of the quantity of waste generated within Buford nor has it completed an analysis of the waste stream characterization. The data provided below is based on reporting from the following resources: Richland Creek Road Sanitary Landfill, United Waste Service, Inc. (the City's franchised commercial/industrial waste collector), the State of Georgia's 2006 Municipal Solid Waste Composition report, the 2006 Georgia Solid Waste Management Plan (SWMP), and the Gwinnett County 2008 Solid Waste Management Plan as well as population projection data from the City's 2030 Comprehensive Plan Update.

2.1 *Inventory of Disposed Waste*

Each municipality and county in Georgia is required to estimate the composition of its solid waste by sector and material characterization. Doing so is important for identifying areas in which waste reduction and recycling efforts can be expanded or developed. Buford's waste data is based on reports provided by the Richland Creek Landfill and United Waste Service, Inc.

Georgia Trends

The average per capita disposal rate for Georgia Municipal Solid Waste (MSW) followed an upward trend between 1994 and 2004, increasing by just less than one pound per capita during that time period (*Georgia SWMP*). The State's per capita disposal rate (for waste produced in the state) was 6.38 lbs/person/day in 2004. This figure includes commercial, industrial, and residential solid waste disposed of in municipal solid waste landfills.

City Waste

Table 2-1 reflects historic trends in waste disposed within the City between 2004 and 2008. The City of Buford disposed of approximately 39,100 tons of solid waste in 2008. This reflects a significant reversal in total waste collected compared to the previous two years, during which disposal amounts exceeded 40,000 tons. This decline in waste disposed was likely associated with the general national economic decline that resulted in a decrease in the number of products produced and those associated waste and businesses and residents taking advantage of recycling opportunities.

The average amount of waste produced by Buford's residential sector in between 2004 and 2008 (31 percent) is consistent with the average residential waste collected by Unincorporated Gwinnett County between 1996 and 2005, which was also 31 percent. This figure, however, is low compared to statewide averages of 39 percent.

City of Buford Solid Waste Management Plan [2008 to 2019]

The City's industrial and commercial waste is collected and tracked by United Waste Service (UWS). UWS classifies industrial waste as waste collected from open-top bins and commercial waste as waste collected from closed-top bins. Commercial waste accounted for an average of 28 percent of the City's waste stream between 2004 and 2008, and industrial waste made up an average of 41.2 percent of the City's waste stream during the same period. *Note, UWS's definition of industrial waste varies from the Georgia Environmental Protection Division's definition; as such, waste comparisons by sector are not made between City and State figures.*

The differences between the amount of waste disposed statewide versus that disposed by Buford reflects the City's high concentration of industrial businesses. Because of this, the City has a very high MSW rate, averaging 18.8 lbs/person/day in between 2004 and 2008. Calculating the ratio of residential waste per person reflects the large impact that commercial and industrial waste has on the City's per capita MSW rate.

**Table 2-1: Waste Disposed by Sector (Tons per Year)
City of Buford, 2004-2008**

Year	Residential	Commercial	Industrial	Total Waste Disposed	Population Estimate	MSW (lbs/person/day)	Residential Waste/Person (lbs/person/day)
2004	9,375	9,637	12,304	31,316	11,514	14.9	6.7
% of Total Waste	30%	31%	39%	100%			
2005	9,827	10,560	16,828	37,215	11,726	17.4	6.5
% of Total Waste	26%	28%	45%	100%			
2006	14,326	11,774	18,764	44,864	11,928	20.6	4.6
% of Total Waste	32%	26%	42%	100%			
2007	20,007	12,716	20,265	52,987	12,129	23.9	3.3
% of Total Waste	38%	24%	38%	100%			
2008	10,677	12,094	16,329	39,100	12,331	17.4	6.3
% of Total Waste	27%	31%	42%	100%			

Sources: United Waste (commercial and industrial data; see definitions of waste sector above), Richland Creek Landfill (residential data). Population estimate based on linear trend established from 1970 to 2000 Census.

Yard Trimmings

The City of Buford has a separate management program for yard trimmings. Residential yard trimmings are collected by the City's leaf and chipper trucks and processed into mulch. The City's chipper truck collected approximately 495 tons in 2008, and the City's leaf truck collected 878 tons in 2008. Combined, these collections represent 1,373 tons diverted from the landfill. City staff estimates that this tonnage has been fairly consistent over recent years.

Commercial/industrial yard trimmings are collected on a business by business basis. Total collection amounts are unknown.

2.1.1 Waste Characterization

Buford's waste composition is believed to be similar to that of Gwinnett County. As such, the City's 2008 waste composition by materials is based on average percent composition generated by the County for 2005. (Gwinnett County's figures are extrapolated from composition and quantify of municipal solid waste provided for the Atlanta Regional Commission in the State's Waste Characterization Study).

This data indicates that paper makes up the largest amount of waste (35.4 percent). This category includes corrugated cardboard, office, newspaper, magazine/glossy, paperboard, mixed (recyclable) and other (non-recyclable). The second largest category of waste is organics (31.1 percent) and includes the following: yard waste, wood, food waste, textiles, diapers, fines, and other organics. These two groups combine equal nearly 67 percent of the waste stream and provide a high degree of waste reduction possibilities over the planning period.

**Table 2-2: Waste Composition Estimate
City of Buford, 2008**

Material Group	Material Categories	Waste Disposed	
		Average Percent Composition	Tons
<i>Paper</i>	Newspaper	3.6%	1,396
	Corrugated Cardboard	9.6%	3,754
	Office	3.3%	1,271
	Magazine/Glossy	2.7%	1,064
	Paperboard	4.1%	1,587
	Mixed (recyclable)	2.6%	997
	Other (non-recyclable)	9.7%	3,785
Total Paper		35.4%	13,849
<i>Plastic</i>	#1 PET Bottles	0.9%	360
	#2 HDPE Bottles	0.7%	274
	#3-#& Bottles	0.1%	43
	Expanded Polystyrene	1.0%	371
	Film Plastic	5.6%	2,182
	Other Rigid Plastic	2.9%	1,122
Total Plastic		11.1%	4,352
<i>Glass</i>	Clear	2.0%	782
	Green	0.3%	102
	Amber	1.2%	465
	Other	1.0%	371
Total Glass		4.4%	1,720
<i>Metal</i>	Steel Cans	1.1%	414
	Aluminum Cans	0.7%	270
	Other Ferrous	4.4%	1,720
	Other Non-Ferrous	1.1%	442

City of Buford Solid Waste Management Plan [2008 to 2019]

Material Group	Material Categories	Waste Disposed	
		Average Percent Composition	Tons
Total Metal		7.3%	2,850
Organics	Yard Waste	3.0%	1,173
	Wood (non- C&D)	3.2%	1,263
	Food Waste	16.4%	6,393
	Textiles	4.3%	1,689
	Diapers	3.3%	1,298
	Fines	0.0%	0
	Other Organics	0.9%	364
Total Organics		31.1%	12,176
Construction and Demolition	Drywall	0.2%	90
	Wood	3.6%	1,392
	Inerts	0.0%	0
	Carpet	1.9%	723
	Other C&D	0.0%	0
Total C&D		5.6%	2,205
Inorganics	Televisions	0.1%	27
	Computers	0.6%	227
	Other Electronics	2.1%	829
	Tires	0.3%	106
	HHW	0.4%	156
	Other Inorganics	1.6%	606
Total Inorganics		5.0%	1,951
Total			39,100

Source: Gwinnett County Solid Waste Management Plan Update, 2008 (Average percent composition) and Table 2-1: Waste Disposed by Sector.

2.1.2 Unique Conditions and/or Seasonal Variations

Seasonal variations in the City's waste stream are believed to be generally similar to that of Gwinnett County. Through an analysis of average quarterly residential and commercial collections between 1991 and 2005, the Gwinnett SWMP found that residential collections are lowest in the first quarter of the year (January through March) and highest during the last quarter of the year (October through December). The difference in collection during these periods is 10.64 percent and is likely explained by seasonal shopping and discards.

Commercial collections are also lowest January through March but the highest from April through June. The difference between these high and low quarters for commercial waste is 6.21 percent. It is uncertain what causes this fluctuation in commercial solid waste disposal.

The City of Buford has a limited number of special events, including the Historic Buford Arts and Jazz Festival (May), Annual Visit Buford Expo (July), and Historic Buford Holiday Festival

& Parade (December), which have a small but negligible impact on waste disposal. There are no other anticipated events or conditions that would contribute to seasonal fluctuations.

2.1.3 Waste Generating Disasters

The City of Buford is prone to the same waste generating disasters that the Atlanta Region faces. The Gwinnett SWMP identified a list of possible disasters that could produce additional waste, which included ice storms, lightning strikes, hail, tornadoes, and hurricanes. The City of Buford is also at risk of flooding within the designated floodplain. Debris from such waste producing disasters includes construction debris, vegetation, trees, stumps, limbs and white goods (major household appliances). The nature and extent of these events are largely unpredictable, and as such, it is unfeasible to project the amount of waste that would be caused by such events.

In the case of a major storm or other waste generating disaster, the City of Buford has contingency arrangements with the Gwinnett Emergency Management Agency (GEMA). The City adopted GEMA's revised Emergency Operation Plan (EOP) in November 2008. At this time, arrangements for waste management resulting from a disaster would be coordinated with GEMA under the EOP.

GEMA has also begun the process of developing a Disaster Debris Management Plan (DDMP), which will directly guide the collection, disposal, and overall management of debris created by disasters. GEMA has a full intent to work with the City of Buford to address disaster waste management related to Buford in this plan. The creation of the DDMP is currently stalled due to other pressing actions being undertaken by GEMA. At this time, there is no projected completion or adoption date of the DDMP.

2.2 Projections of Waste to be Disposed

Waste projections are important for planning adequate disposal capacity at landfills, identifying new collection needs and resources, and for identifying programs and resources for waste reduction and recycling. Waste disposal projections for Buford are calculated by looking forward using assumptions from the past.

Table 2-3 projects the amount of MSW anticipated by the City of Buford during the 11 year planning period, based on the average per capital disposal rate between 2004 and 2008 of 18.8 percent. If the population continues at the projected rate, total tonnage of waste is anticipated to reach 49,912 tons in 2019. This figure does not take into account any increases or decreases in the municipal solid waste disposal rate during the period and does not account for the possibility of natural or manmade disasters, which are largely unpredictable. As discussed earlier, Buford has no anticipated events or programs that would notably affect the amount of waste disposed on a year to year basis.

The waste stream composition is estimated to remain fairly constant over the planning period. Increased recycling efforts targeting paper and organics should lead to some decrease in the percent of the waste stream accounted for by these materials. Change in the waste stream composition is largely unpredictable in Buford because of the large number of industrial and

City of Buford Solid Waste Management Plan [2008 to 2019]

commercial businesses and anticipated growth in these sectors. Because of this, waste disposal projections are provided by overall, community-wide values rather than by material composition.

**Table 2-3: Waste Disposal Projections
City of Buford, 2008-2019**

	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11
Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Population Estimate/ Projection	12,331	12,532	12,734	12,935	13,137	13,338	13,540	13,741	13,943	14,144	14,346	14,547
TOTAL TONS	39,100	42,999	43,690	44,381	45,072	45,763	46,454	47,145	47,837	48,529	49,220	49,912

Source: Population Projections from 2030 City of Buford Comprehensive Plan. 2008 tonnage derived from United Waste (commercial and industrial data) and Richland Creek Landfill (residential data). Total tons for 2009-2011 based on assumption of a steady 18.8 lbs/person/day disposal rate (see Sec. 2.1), with no reduction in disposal rate.

2.3 Per Capita MSW Disposal Reduction Goal

Localities in Georgia are required to establish disposal reduction goals. These goals and consequent efforts are intended to help extend the life of landfills, reduce environmental impacts through reduced waste and source reduction, and create other indirect societal benefits.

The State of Georgia has established a per capita waste reduction goal of 23 percent for the year 2017 for waste disposed from Georgia. In conformance, the 2008 Gwinnett SWMP Update established an overall reduction in municipal solid waste disposal target of 23 percent by 2020. Consistent with the State and County goals, the City of Buford believes that a 23 percent reduction rate is feasible goal for the city over the planning period. **Table 2.4** reflects waste disposed target rate over the 11 year period, which assumes a constant reduction in the per capita disposal rate between 2009 and 2019 to a total of 23 percent by 2019. If these goals are achieved, the total tons disposed by the City will be 38,400 tons in 2019.

**Table 2-4: Waste Disposed Target* for Planning Period
City of Buford, 2008 to 2019**

	Base Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11
	2008	2009**	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Population/ Projected Population	12,331	12,532	12,734	12,935	13,137	13,338	13,540	13,741	13,943	14,144	14,346	14,547
Tons Disposed	39,100	48,945	42,685	42,340	41,962	41,553	41,112	40,639	40,135	39,599	39,032	38,432
MSW (lbs/person/day)	17.40	18.80	18.37	17.94	17.50	17.07	16.64	16.21	15.77	15.34	14.91	14.48
Reduction in Per Capita Disposed from 2009	-----	NA	0.43	0.86	1.30	1.73	2.16	2.59	3.03	3.46	3.89	4.32

Source: City of Buford 1992 Solid Waste Management Plan. Population projections based on City of Buford 2030 Comprehensive Plan Update.

*Waste disposed target set at 23 percent, consistent with the State and County goal.

**2009 MSW (lbs/person/day) is derived from average MSW from previous five years. See table 2.1.

SECTION 3 WASTE REDUCTION ELEMENT

The City of Buford has established a per capita waste reduction goal of 23 percent by the year 2019 (see **Section 2**). To achieve this goal the City will need to encourage increased waste reduction by community members. Particular emphasis will need to be placed on the industrial waste (as defined by the United Waste Service), which creates the greatest percentage of the City's waste (see **Table 2-1**).

The City of Buford runs limited waste reduction programs; however, residents and businesses are encouraged by the City to work with relevant groups from Gwinnett and Hall Counties as well as private entities who provide excellent reuse, recycling, and general waste reduction programs. Gwinnett Clean & Beautiful (GCB) and Keep Hall Beautiful (KHB) are important waste reduction partners for the City. Both agencies are affiliates of Keep America Beautiful and Keep Georgia Beautiful. The overarching goal of these agencies is to protect and improve Georgia's environment, specifically clean air, water, and land. Waste reduction is an important element of this mission.

3.1 Inventory of Waste Reduction Programs

3.1.1 Source Reduction

Source reduction is the process of eliminating the amount of product that is produced to meet a need, either via reuse programs, financial incentives, waste audits, waste exchange, or industrial process exchanges. Source reduction is helpful at reducing waste by making processes more efficient and finding important customers for reusable products without otherwise producing a new product.

The City does not manage any reuse programs, but Buford residents have access to privately run reuse programs. Community members are able to donate and buy clothing and other household goods at Goodwill and the Salvation Army. These stores help extend the life of goods that would otherwise be sent to the landfill. The City of Buford Fire Department also collects used clothing.

Gwinnett Clean and Beautiful Programs

GCB provides two programs to help businesses reduce the amount of waste they create: free Waste Stream Audits and Lunch & Learn Programs on Waste Reduction. These programs are available to small, medium, and large businesses and are led by GCB staff.

Industrial Materials Exchange

GCB promotes industrial process exchange by providing information regarding the Georgia Industrial Materials Exchange to area businesses. This program provides a free site that links organizations that have reusable goods they can no longer use to those organizations that could use them. This program is managed by the Pollution Prevention Assistance Division (P²AD) of the Georgia Department of Natural Resources.

Public and private organizations in Buford are also supported by DNR's P²AD membership program. This program encourages businesses to adopt more environmentally sustainable

practices, in part, by waste reduction and recycling efforts. Participant organizations are recognized for superior environmental practices and receive support for achieving program goals. Currently the following Buford organizations are P²AD members: Legacy Lodge and Conference Center (bronze level) and Greenleaf Environmental Group, Inc. (champion level).

Hall County EnviroShare and X-Change

Hall County Resource Recovery Division coordinates two programs, EnviroShare and X-Change, that help businesses reduce waste. The EnviroShare teams is a cross section of business expertise, including industrial/manufacturing, metal products, food/poultry, hazardous wastes, etc., that work together to share information and best practices for waste reduction, facilitate materials exchange, assist with waste audits, and provide sources for recycling markets, among other activities. The X-Change program helps residents and businesses “find a home” for materials that they no longer need.

3.1.2 Recycling

The City of Buford does not offer general curbside recycling to its residents. The decision to recycle materials is completely voluntary. The Gwinnett County Fire Department as well as other public and private organizations in the Buford area offer drop-off recycling facilities. Other private organizations, as well as the Gwinnett Recycling Bank, provide financial incentives to encourage recycling. Aside from those organizations listed below, several businesses, non-profits, and other nearby adjacent jurisdictions, including Hall County, offer recycling guidance and programs that are accessible to Buford businesses and residents.

Gwinnett Clean & Beautiful

Gwinnett Clean & Beautiful runs the Recycling Bank of Gwinnett, which provides one option for recycling. Community members can bring recyclables to the center and receive cash for their contribution. Due to a fire, the Recycling Bank was temporarily closed and rebuilt. The Recycling Bank reopened to the public in April 2009. GCB also provides a directory of recycling locations by type of material throughout Gwinnett County. This information is easily accessible online. The agency also provides a junk car removal assistance program.

Commercial and Industrial Recycling

The City’s commercial and industrial waste collector, United Waste Service, Inc. offers cardboard recycling pick-up for an additional weekly fee, on top of base waste removal rates. VISY Recycling, Inc. also provides recycling services to some businesses in Buford. Materials accepted by this agency include the following: corrugated cardboard, newspapers, magazines, brochures, printed or typed reports, used files, photocopy paper and wrappers, paper binder dividers, bond stock, letterheads and forms, computer printouts, envelopes, index cards, invoices, manila folders, phone books, writing paper, drawing or note paper, register rolls, wrapping paper, junk mail, all white and colored paper. VISY Recycling provides containers and pick-up service. It is unclear how many of the City’s businesses participate in VISY programs.

The Adams Company

The Adams Company is a full service recycling center in Buford that serves local and regional industry, construction and demolition needs and the public. This company is a great recycling

City of Buford Solid Waste Management Plan [2008 to 2019]

resource for businesses and individuals in the Buford community. The company pays money to individuals and companies for accepted materials based on the weight and type of recyclable brought in.

Community Organizations

Several churches and schools in the Buford vicinity offer drop-off recycling for newspapers (see **Table 3-1**).

Local Government Programs

The Gwinnett Fire Department offers recycling for various materials, including newspapers, aluminum cans, glass, paper, cardboard, cans, and motor oil, as shown in **Table 3-1**.

Table 3-1: Recycling Programs in City of Buford, 2009

Type of Program	Population Served	Operated by:	Materials Accepted
Drop-Off Recycling	Residents	Gwinnett Fire Department	Newspapers
			Aluminum Cans
Church Recycling Program	Church members & residents	Mt. Zion Church	Newspapers
			Magazines
Drop-Off Recycling	Residents and businesses	Hall County Fire Department, 6175 Gaines Ferry Rd.	Glass
			Paper
			Cardboard
			Cans
			Motor Oil
Drop-Off Recycling	Residents and businesses	Tullis Metals	Copper
			Aluminum & Cans
			Brass
			Iron
			Auto
Drop-Off/Pay Recycling	Residents, businesses, C&D	The Adams Company	Television
			Multiple*
Drop-Off Recycling	Residents	Buford High School	Newspapers
Church Recycling Program	Church members & residents	First Baptist Church of Buford, First United Methodist Church of Buford, Gravel Springs Baptist Church	Newspapers
Drop-Off Recycling	Residents and businesses	Recycling Bank of Gwinnett (Gwinnett Clean & Beautiful)	Newspapers, Plastic Bottles, Aluminum Cans, Steel Cans, Glass Jars/Bottles, Office Paper, Magazines, Books, Corrugated Boxes, Phone Books, Junk Mail, greeting cards

City of Buford Solid Waste Management Plan [2008 to 2019]

Table 3-1: Recycling Programs in City of Buford, 2009

Type of Program	Population Served	Operated by:	Materials Accepted
Drop-off Recycling	Residents	Gwinnett County Schools (Glen C. Jones Middle School, Harmony Elementary School, Lanier Middle School, Summerour Middle School, Sweetwater Middle School)	Newspapers

Source: Gwinnett Clean & Beautiful, <http://www.gwinnettcg.org/>

List represents programs with a City of Buford zip code

N/A indicates that data specifically for City of Buford is not available.

*See Table 3-2

Table 3-2: Businesses that Accept Recyclables from City of Buford

Name	Location	Accepts Material from:		Materials Accepted
		Geographic Area	Sector	
Adams Company, The	Buford	Atlanta Region	Residential, Commercial, C&D	Aluminum Cans, Auto Metal, Cardboard, Cell phones, PDAs, Computers, Computer Monitors, Metal scrap (all), Office Paper, Photographic & Medical Film, Silver Recovery
Advance Auto Parts	Buford	Buford, Other customers	Residential	Auto Batteries, Motor Oil, Transmission Fluid
AT&T	Buford	Buford, Other customers	Residential	Cell phones, PDAs, Rechargeable Batteries
AutoZone	Buford	Buford, Other customers	Residential	Motor Oil, Transmission Fluid
Best Buy	Buford	Buford, Other customers	Residential	Cell phones, PDAs, Computers, Computer Monitors, Rechargeable Batteries, Toner Cartridges
Firestone Tire & Service Center	Buford	Buford, Other customers	Residential	Oil Filter, Tires
Home Depot	Buford	Buford, Other customers	Residential	Fluorescent Bulbs, Rechargeable Batteries
Jake Johnsons Garage Inc.	Buford	Buford, Other customers	Residential	Motor Oil, Transmission Fluid
Kauffman Tires	Buford	Buford, Other customers	Residential	Tires
Lowe's	Buford	Buford, Other customers	Residential	Rechargeable Batteries
Mr. Transmission	Buford	Buford, Other customers	Residential	Motor Oil, Transmission Fluid
NAPA: Parker's Service Center	Buford	Buford, Other customers	Residential	Motor Oil
NAPA: Rick's Automotive	Buford	Buford, Other customers	Residential	Motor Oil
Office Max	Buford	Buford, Other customers	Residential	Toner Cartridges
Radio Shack	Buford	Buford, Other customers	Residential	Rechargeable Batteries

City of Buford Solid Waste Management Plan [2008 to 2019]

Table 3-2: Businesses that Accept Recyclables from City of Buford

Name	Location	Accepts Material from:		Materials Accepted
		Geographic Area	Sector	
S & S Ace Hardware	Buford	Buford, Other customers	Residential	Rechargeable Batteries
Staples	Buford	Buford, Other customers	Residential	Rechargeable Batteries, Toner Cartridges
Target	Buford	Buford, Other customers	Residential	Rechargeable Batteries
Tullis Metals	Buford	Buford, Other customers	Residential	Alluminum Cans, Copper, Brass, Iron, Microwaves, Auto, Televisions
Verizon Wireless	Buford	Buford, Other customers	Residential	Cell phones, PDAs
Wal-Mart Supercenter	Buford	Buford, Other customers	Residential	Plastic Grocery Bags, Rechargeable Batteries

Source: Gwinnett Clean & Beautiful, <http://www.gwinnettcg.org/>, March 2009.

List represents businesses with a City of Buford zip code

Table 3-3: Recycling Facilities Accessible to Buford Community

Facility Name	Facility Type	Owner/ Operator	Jurisdictions Served	Sectors Served	Materials Accepted
The Adams Company	Private Business	The Adams Company	Atlanta Region	Residential, Industrial, Commercial, C&D	Aluminum Cans, Auto Metal, Cardboard, Cell phones, PDAs, Computers, Computer Monitors, Metal scrap (all), Office Paper, Photographic & Medical Film, Silver Recovery
Tullis Metals	Private Business	Tullis Metals	Local area	Residential, Industrial, Commercial, C&D	Aluminum Cans, Copper, Brass, Iron, Microwaves, Auto, Televisions
Recycling Bank of Gwinnett	Public/Private Partnership	Gwinnett Clean & Beautiful	Gwinnett County	Residential, Commercial	Newspapers, Plastic Bottles, Aluminum Cans, Steel Cans, Glass Jars/Bottles, Office Paper, Magazines, Books, Corrugated Boxes, Phone Books, Junk Mail, greeting cards

Source: Gwinnett Clean & Beautiful, <http://www.gwinnettcg.org/>, March 2009.

3.1.3 Yard Trimmings Programs and Facilities

The City provides curbside yard trimming collection to all residents. Residents are charged a monthly flat fee of \$2 for the service as a part of the Water Utility Bill. The City picks up yard trimmings via a scheduled pick-up initiated by residents. The City has two vehicles for this purpose, including a City owned chipper truck and a City owned leaf truck. Collected yard trimmings are grinded into mulch by the City and given away to community members upon request. In 2008, the City collected over chipper truck and leaf truck collected 495 tons and 878 tons of yard trimmings respectively, diverting over 1300 tons of residential yard trimmings from the landfill.

City residents also have access to the annual Christmas tree recycling program managed by GCB and KHB. These programs are sponsored by Georgia Clean & Beautiful. Participants can drop off Christmas trees on specific dates and times. The program is largely administered by volunteers. The programs help save money and landfill space.

Composting

It is unknown how many private composting facilities are present in Buford. It is expected that some percentage of Buford single family households maintain composts for local waste reduction and gardening. Guidance for constructing and maintaining a compost is also available from GCB.

Yard trimmings that are not reused within the community for mulching and composting can be deposited at S&W Inert Landfill in Rest Haven.

Table 3-4: Yard Trimmings Programs Available to Buford Community

Program	Owner/ Operator	Jurisdictions Served	Sector Served*	Materials Accepted	Quantity	Final Disposition
Christmas Tree Recycling Program, "Bring One for the Chipper"	Gwinnett Clean & Beautiful	Gwinnett County	R	Christmas trees	Unknown	Residents mulch grass on yards.
Christmas Tree Recycling Program, "One for the Chipper"	Keep Hall Beautiful	Hall County	R	Christmas trees	3,000 trees (2000)	Mulched and given away for free.
Municipal curbside yard trimmings	City of Buford	Buford	R	Leaves, trees, and other related materials	1373 tons in 2008	Mulched and made available to public and private entities as requested
S&W Inert Landfill	S & W Landfill, Inc.	Buford	R, C, I, CD	Land clearing debris	Unknown	Inert landfilling

Source: City of Buford (yard trimming data); Gwinnett Clean & Beautiful and Keep Hall Beautiful. Pollution Prevention Assistance Division (Georgia DNR).

* R= Residential, I=Industrial, C=Commercial, CD= C&D

3.1.4 Items Requiring Special Handling

Some materials and products can have extremely negative impacts on the environment if deposited via traditional waste processes. Harmful materials that require special handling include electronics, household hazardous waste, batteries, white goods (i.e., large household appliances such as refrigerators, washing machines, etc.), and tires. The GCB recycling directory provides an extensive list of locations that accept materials that require special handling. Several of those sites are listed in **Table 3-2**. Atlanta Light Bulbs (Duluth) and Safety Kleen (Norcross) offer other hazardous waste recycling.

The City also collects large household items that are disposed of at the curb via its weekly trash collection service. The City contracts with vendors to dispose of white goods and other materials

requiring special handling once they are collected. Although the City provides this collection service, residents are encouraged to dispose of products through other agencies with special capacity.

United Waste Services (contracted by the City to handle commercial and industrial waste) helps businesses with such efforts. Removal of such materials from businesses is coordinated with individual businesses on an as-needed basis.

3.2 Disaster Debris Management – Waste Reduction Strategy

Disasters often lead to a large amount of waste, much of which includes materials that can be diverted from the landfill and recycled or processed for further use either as yard chips or new products. The City currently has an agreement in place with the Gwinnett Emergency Management Agency (GEMA) to handle emergency debris in times of disaster. It should be noted, however, that GEMA does not have a formal Debris Management Plan in place yet. GEMA is responsible for managing disaster management procedures for the Gwinnett County and is in the process of developing a Comprehensive Debris Management Plan to address this issue. The Plan will include debris separation and recycling contingencies and has an anticipated completion in 2009. In the interim, GEMA will sit down with affected parties on an ad hoc basis to address handling of debris in times of disaster, and the City of Buford's yard trimming collection program can be quickly expanded to collect and process additional yard debris that would be diverted from the landfill.

In the case that there is a need for disaster debris management, the City will inform affected community members and businesses of waste diversion activities via appropriate communication channels, including local print and electronic media and via postings on the City's website. Customers will also be informed of such situations via billing statements if and when appropriate. These communication strategies will be coordinated with GEMA and other jurisdictions as deemed appropriate.

3.3 Assessment of Waste Reduction Program

Buford residents and businesses have several resources available to help reduce, reuse, and recycle goods. The two local affiliates of Georgia Clean and Beautiful, along with state resources, provide a wealth of resources for residents and local businesses to assist in waste reduction. Despite the existence of this plethora of programs, it is unclear whether the Buford community is aware of all the resources at hand. Because of this, it is unclear to what degree the City has been successful at diverting these recyclable materials from the waste stream. This issue is addressed in more detail in Section 7, Education and Public Involvement.

One of the largest contributions to the City's solid waste stream is organic materials (yard waste, wood, food waste, textiles, diapers, fines, other organics), which make up approximately 31 percent of Buford's waste stream (see **Section 2**). The City has an effective yard trimmings program that diverts a significant amount of material from the landfill; however, it appears that there is room for greater reduction in this waste stream through other activities such as composting.

Another significant contribution to Buford's waste stream is paper (35.4 percent). About 10 percent of this is not recyclable and the other 25 percent is recyclable, including newspaper, corrugated cardboard, office, magazine, paperboard, and other mixed recyclable paper. Several organizations in the community provide drop off recycling for newspapers. United Waste Service, Inc. (UWS) offers cardboard recycling to its customers; however, only 5 percent of the commercial sector and 1 percent of the industrial sector used this recycling effort (based on 2008 figures from UWS). It is also unclear how many area businesses use VISY Recycling services. These efforts do not fully address the need to redirect office, magazine, and other paper from the waste stream and into the recyclables.

The City does not have a curbside recycling program, which may deter some people from recycling. Because residential recycling is a fragmented process in the City, it is difficult to identify what percentage of the population is actively and regularly recycling materials.

3.4 Needs and Goals

Goal: *Improve waste reduction participation rates and better track participation by the commercial, industrial, and business sectors in source reduction and recycling efforts.*

Need 3-1: Improve linkage between Buford businesses and area recycling and source reduction programs.

Need 3-2: Provide promotional materials for local recycling program from Gwinnett Clean & Beautiful (GCB) and Keep Hall Beautiful (KHB) to Buford residents at City Hall.

Need 3-3: Work with Gwinnett Clean & Beautiful and Keep Hall Beautiful to encourage and monitor local composting efforts.

Need 3-4: Interview a sample of area businesses to determine participation in and ways to increase voluntary recycling. GCB is available to help with this effort.

Need 3-5: Continue to monitor community support for curbside recycling and complete feasibility study as determined appropriate.

SECTION 4 COLLECTION ELEMENT

Providing efficient and effective waste collection services to residents and businesses is important to offering a high quality of life to community members and minimizing negative impacts on the environment. A poor collection process can have adverse aesthetic and community-wide effects, negatively impacting property values, ability to attract businesses, and general perceptions of the city. A robust waste collection program protects the health, safety, and general welfare of the greater Buford community.

This section addresses the collection of solid waste, recycling materials, and yard trimmings and also discusses the management practices for illegal dumping/littering.

4.1 Inventory of Collection

4.1.1 Inventory of Existing Programs

The City of Buford has a stream-lined solid waste collection approach that is designed to increase efficiency and eliminate redundancies. The City's Sanitation Department divides waste management for residential and commercial sectors. The City provides a curbside residential yard trimming collection program but does not offer curbside recycling.

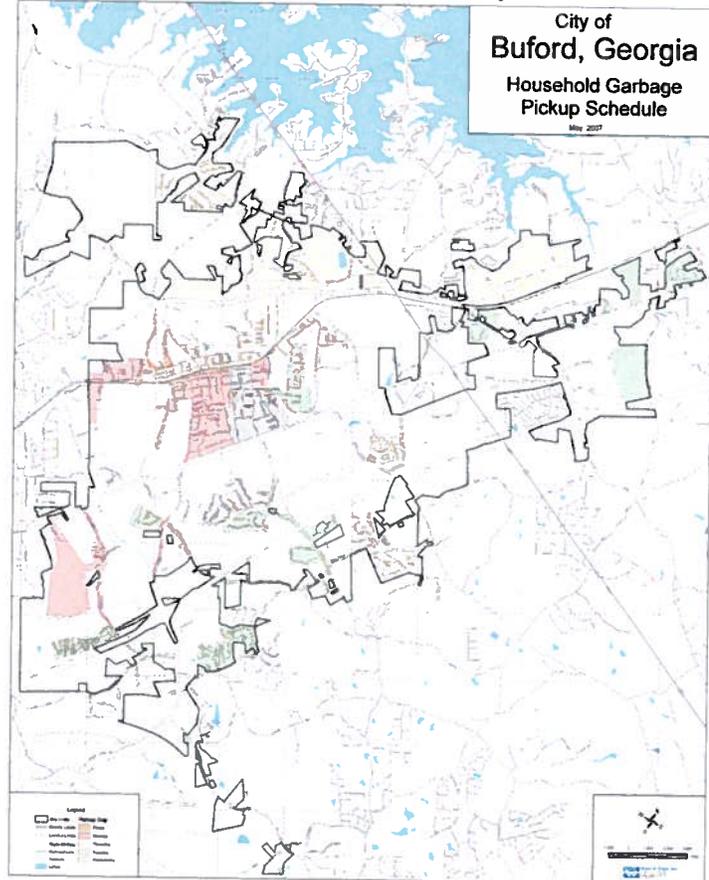
For commercial and industrial sectors, the City franchises out collection to private haulers. **Table 4-1** provides an inventory of haulers operating in Buford, and **Table 4-2** provides an inventory of collection programs available to community members.

Solid Waste Collection Programs

Residential

The City manages the residential collection process that is staffed by City collection crews. Solid waste is managed through a curbside collection system, which runs Monday through Friday. The City provides an easily-readable, color-coded map to help residents identify what day of the week their trash is collected (**Figure 4-1**). Residents are responsible for providing garbage in a plastic liner within a container with a tight fitting cover that can easily be handled by garbage collection staff. All Buford residents participate in curbside garbage collection.

Figure 4-1. Household Garbage Pickup Schedule



The City collects garbage from each household one time per week using four collection vehicles (two for household waste and two for general trash). These vehicles are in good condition and anticipated to have a remaining life of five years. The City separates out waste that is inappropriate for disposal in the MSW landfill and contracts with an individual

Materials not eligible for curbside pick-up include tires, batteries, paint cans, rocks, dirt, brick, carpet, and building materials. Disposal of these materials is coordinated with Gwinnett Clean & Beautiful.

Commercial and Industrial

The City manages commercial and industrial solid waste collection via a Franchise agreement with Solid Waste Service, Inc., who has sole right to collect solid waste at commercial and industrial sites in the city. Solid Waste Service will collect garbage up to six times per week per business, based on individual business needs.

Drop-Off Services

No staffed or un-staffed garbage drop-off services are offered to City residents or businesses.

Transfer Station

No transfer stations are currently used for either City residential or commercial garbage collection.

Recycling Collection Programs

Residential

The City of Buford does not offer a curbside recycling for its residents and does not anticipate adding this service during the short term period of this plan. As discussed in great detail in Section 3, Buford area businesses and non-profits offer multiple recycling opportunities. The Fire Department offers a drop-off recycling program for certain items, and several other local organizations, including local affiliates of Georgia Clean and Beautiful, offer drop-off services and multiple other programs that divert material from the landfill. *See Section 3 for more information.*

Commercial and Industrial

Pick-up cardboard recycling is provided to area businesses by the commercial and industrial franchise waste hauler, United Waste Service. VISY, Inc. also provides cardboard recycling and other recycling services to area businesses.

Yard Trimmings Collection Programs

As discussed in **Section 3**, the City of Buford provides yard trimming collection services to all residents. The City picks up yard trimmings via a scheduled pick-up initiated by residents. The City has two trucks designed to handle this service. Collection of yard trimmings created by Buford businesses is handled through arrangements made by each business.

City of Buford Solid Waste Management Plan [2008 to 2019]

Table 4-1: Haulers Operating in Buford

Hauler Name	Hauler Address	Sector Served ¹	Arrangement
City of Buford	Sanitation Department City of Buford 2300 Buford Hwy Buford, GA 30518	R	The City of Buford manages and operates this service using four collection vehicles owned by the City.
United Waste Service, Inc.	51 Patrick Mill Rd. SW Winder, GA 30680	I, C	Operates under a Franchise agreement with the City of Buford; the City manages accounts. Recycling services are provided via individual contracts with businesses.
VISY Recycling, Inc.	1800-A Sarasota Parkway Conyers, GA 30013	I, C, C&D	Provides recycling services to area businesses via individual contracts. Containers and pick-up is provided by VISY.

¹ R= Residential, I=Institutional, C= Commercial, CD= C&D
Source: City of Buford, United Waste Service, Inc.

**Table 4-2: Inventory of Collection Programs
City of Buford**

Type	Collector	Program Description	Sectors Served ¹	Number of Households/Businesses served, if available ²	Contractual Arrangements
Curbside Collection	City of Buford	Weekly curbside collection of garbage and plus collection of yard trimmings, upon resident request.	R	100% of Buford households	NA
Front end containers, open top containers, and compactors (front end & roll-off)	United Waste Service, Inc.	1-6 times weekly collection of garbage and cardboard recycling; special waste collected based on material	I, C, CD	Averages ² : 569 commercial waste customers (5% recycle); 78 industrial waste customers (1% recycle)	United Waste Service has 5-year franchise agreement with the City of Buford for waste collection; individual contracts with businesses for recycling
Containers and pick up service provided.	VISY Recycling, Inc.	As determined in contract between VISY and client.	I, C, CD	Unknown	Individual contracts with businesses for recycling
Recycling Bank of Gwinnett ³	Gwinnett Clean & Beautiful	Drop-off, buy-back center for recyclables	R	Unknown	Partnership between local jurisdictions and Gwinnett Clean & Beautiful

¹ R= Residential, I=Institutional, C= Commercial, CD= C&D;

² Averages are based on monthly totals; percent that recycle only reflects recycling via United Waste Service pick-up, businesses may be using other recycling streams;

4.1.2 Contingency Strategy

In situations where the primary collection methods may be temporarily interrupted, the City of Buford's strategy is to use its own waste collection staff. In a few rare incidences in the past, the City has done this on a very short notice and for a short period of time.

In cases where this primary collection option is not available, the City's first contingency strategy is to ask Buford's franchised commercial/industrial collector, United Waste Service, Inc. (UWS), to collect trash in the interim. In the case where this option is not available, the City would work with area contractors to help haul residential trash. Contractors that it would consider include D & F Grading, Inc. (contact, David Howington), Corbin Trucking (contact, Larry Corbin), and Ryder System, Inc. (contact, to be determined).

UWS has sufficient vehicles and staff in place to deal with commercial and industrial collection in-house should an unexpected event occur that requires additional support. The City's contract with UWS states that the "the contractor [UWS] must have back-up equipment available at all times." There are several haulers in the Atlanta region that provide collection services to neighboring jurisdictions that could be contacted to address interim collection needs should the UWS be unable to provide the service. The City would coordinate with Gwinnett County in the case that such actions be necessary. It is anticipated that these contingency arrangements could be brought online within 24 hours of the initial service interruption.

4.1.3 Disaster Debris Management – Collection Strategy

As discussed briefly in **Section 2**, the City of Buford has contingency agreements with the Gwinnett Emergency Management Agency (GEMA) in the case of a major disaster. Currently, waste collection strategies in the case of disasters are coordinated by GEMA and developed on a case-by-case basis. The City of Buford's leaf and chipper trucks are excellent resources for collecting natural debris during disasters. UWS also has several resources on hand to help work through disasters.

GEMA, the City of Buford, and other partner jurisdictions have identified that a more pre-defined approach is needed. As such, GEMA is in the process of developing a Comprehensive Disaster Debris Management Plan (DDMP), which will pre-identify haulers and provide procedures for source reduction, debris separation, and recycling as well as time estimates for bringing the contingency collection program online. The DDMP will also include procedures for collection, processing, and public notification of alternative programs for residential and commercial waste. Participating jurisdictions will be bound to this contingency arrangement via an intergovernmental agreement. The City of Buford is partnering with the County and other jurisdictions in this effort. At this time, specific completion and adoption dates have not been set.

In the case that there is an interruption or change in collection services in the interim, the City will inform customers via appropriate communication channels, including local print and electronic media and via postings on the City's website. Customers will also be informed of such situations via billing statements if and when appropriate. These communications strategies will be coordinated with GEMA and other jurisdictions as deemed appropriate.

4.2 Assessment of Collection Programs

The City of Buford has well-managed and dependable garbage collection processes. The City's decision to provide curbside and backyard garbage collection services for all residents and to contract with one outside company for commercial/industrial collection has made waste collection transparent and easy to track and follow. As such, accountability to the public is a prime driving factor behind the waste collection system.

The City also has also been proactive in maintaining a yard debris collection program for all residents. The City's leaf and chipper trucks divert several tons of waste from the local landfill each year. The yard trimming collection program for businesses is decentralized yet efficiently meets the broader needs of the local community.

The City's recycling programs, as described in **Section 3**, are largely provided by third parties located either within Buford or nearby in adjacent communities. The result has been a fragmented recycling program that is hard to track. Although community members have access to a variety of recycling resources, it is likely that a more coherent recycling approach could reduce much waste in the City. Because the commercial and industrial sectors are responsible for the greatest degree of waste generated in the city, it would be particularly effective to focus recycling efforts in these sectors. Currently, UWS offers cardboard recycling to businesses, and VISY Recycling Inc. offers broader recycling options to interested businesses. The City has the potential to work with UWS and other recycling providers in the area to help encourage greater recycling from the private sector.

The City is working with GEMA to develop a more rigorous and clearly defined approach for disaster debris collection in the case of an emergency. It is important that the City work closely with GEMA as this planning process takes place.

4.3 Inventory of Illegal Dumping/Littering

At this time, the City has not identified any noteworthy littering or illegal dumping areas within Buford. The City has adopted a Litter Control Ordinance that prohibits littering on both public and private property, including bodies of water. Fines of \$200 to \$1200 are levied enforcement offers for violations.

Keep Hall Beautiful (KHB) works with the Gainesville-Hall County Adopt-A-Stream program to monitor streams and host quarterly stream clean-ups to meet EPD stream quality standards. Volunteers with KHB and community service workers also help clean-up illegal dump sites. Community service workers help with public property clean-up as an alternative to hefty fines or jail time.

Gwinnett Clean & Beautiful (GCB) along with the Gwinnett County Department of Transportation also runs an Adopt-a-Road litter prevention initiative, which encourages local groups or businesses to enter into an "Adopt-A-Road Agreement," committing them to four clean-ups on a particular county road over a 12 month period. The program reduces trash and inappropriate signage along roadways. Some Buford businesses are active in regularly reporting roadway litter issues to GCB. This vigilance helps GCB assist the City in litter reduction goals.

Since 1997, GCB has also been operating the Take Pride in Gwinnett program. The program encourages businesses or civic groups to “adopt” a major public roadway median(s) for two years. Participant groups landscape and remove trash from the median for a minimum of two years in partnership with the Gwinnett County Department of Transportation, the Georgia Department of Transportation, and participating municipalities.

4.4 Assessment of Programs to Address Illegal Disposal/Dumping

Buford does not currently have any noteworthy illegal disposal/dumping issues. The City has been proactive in crafting a Litter Control Ordinance should illegal dumping issues arise. This ordinance addresses debris from trucks, as well as potential purposeful illegal dumping by area residents and businesses.

Area Georgia Clean and Beautiful affiliates are very active in organizing groups and individuals to help identify, report, and mitigate illegal dumping issues in the area and are available to work with the City should a relevant concern arise.

At this time, the City does not have an environmental code enforcement officer and does not anticipate needing one in the short term of this plan. Current practices effectively manage and discourage illegal disposal/dumping in the city. The City will continue to work with GCB and KHB to address any illegal dumping/disposal issues that arise over the planning period.

4.5 Needs and Goals

Goal: *Continue offering transparent waste collection programs, while increasing efforts to divert recyclable materials from the waste collection stream.*

Need 4-1: Ensure continuation of capital replacement fund to replace residential waste collection fleet as needed during planning period.

Need 4-2: Ensure continuation of capital replacement fund to replace yard trimming collection vehicles as needed during planning period.

Need 4-3: Evaluate effectiveness of and renew franchise agreement for commercial and industrial waste collection at end of current term.

Need 4-4: Maintain operation of Yard Waste Chipper.

Need 4-5: Work with area businesses and business recycling contractors to increase participation in pick-up recycling programs.

Need 4-6: Continue to work with the Gwinnett Emergency Management Agency to develop a Disaster Debris Management Plan.

SECTION 5 DISPOSAL ELEMENT

The City's Solid Waste Management Plan must insure that there are sufficient facilities and capacity for safely depositing the City's waste over the 11 year planning period. Currently, the City of Buford disposes all of its municipal solid waste within one facility within the jurisdiction. Inert waste is also disposed at several small temporary facilities as well as the S&W inert landfill. These facilities are anticipated to meet Buford's solid waste disposal needs over the period.

5.1 Inventory of Solid Waste Disposal Facilities

According to City records, all municipal solid waste generated in the City of Buford is brought to the BFI-Richland Creek Landfill, located in Buford. The Richland Creek facility is the only operating municipal solid waste landfill still open and operating in Gwinnett County. The landfill also imports waste from 27 other jurisdictions in Georgia and from out of the state.

The landfill opened in March 1988 and was expanded between 1996 and 1999 to increase capacity. The disposal area has a liner and a leachate collection system. Groundwater monitoring wells, methane monitoring wells, and surface water monitoring points have been established in and around the landfill site to detect any possible contamination from the facility.

Aside from Municipal Solid Waste, the Richland Creek Landfill is also permitted to process liquid solid waste. The liquid solid waste permitted facilities treat carbonated beverages, grease trap droppings and industrial sludge or wastewater. These liquid materials are mixed with dry material in uniquely designed locations then eventually disposed of in the landfill.

Inert Landfills

Buford also has access to the S&W Inert Landfill, located in Rest Haven, for the disposal of land clearing debris. The City of Buford has no formal agreement with the S&W facility; however, community members can access the facility for fee disposal of yard waste and concrete. Several other, small scale inert landfills are temporarily maintained adjacent to construction sites in the City. Those inert solid waste management facilities in Buford are regulated by and receive permits from the Georgia Environmental Protection Division.

Thermal Treatment Facilities

No thermal treatment facilities are currently in operation in Buford. Gwinnett County and Hall County each have facilities that provide on-site thermal treatment for biomedical waste, embalming waste, and wastes from CDC research.

Transfer Stations

Because all of Buford's solid waste is deposited within the city, there are no existing transfer facilities in the city and no anticipated need for any new transfer stations during the planning period.

Table 5-1: Inventory of Disposal Facilities to Be Used by Buford during the Planning Period (2010-2019)

Facility Name	Physical Address	Owner/ Operator	Facility Type	Types of Waste Accepted	Remaining Capacity (Cubic yards) 2005	Year Expected to Reach Capacity
BFI-Richland Creek Landfill	5691 South Richland Creek Road Buford, GA 30518	Allied Waste Services	Municipal Solid Waste Landfill	Municipal solid waste	1,077,350	4/17/2022
S&W Landfill*	421 Thunder Rd. Buford, GA 30518	S & W Landfill, Inc.	Inert Landfill	Land clearing debris	Unknown	Unknown

Sources: Georgia Environmental Protection Division; Gwinnett County 2008 Solid Waste Management Plan.

*The City of Buford has no formal arrangement to utilize the S&W landfill over the planning period. This facility is listed as a potential resource for area businesses and residents for extraneous land clearing debris.

5.1.1 Assurance of 10-Year Capacity

As demonstrated in **Table 5-1**, the BFI-Richland Creek Landfill is not expected to reach capacity until 2022. The timeframe for Buford’s SWMP extends from 2008-2019. This allows for a three year buffer between the end of this planning period and reaching landfill maximum capacity. **Table 5-2** shows the amount of waste to be deposited in the BFI-Richland Creek Landfill between 2010 and 2019.

5.1.2 Contingency Strategy

It is important that the City have a back-up strategy for waste disposal in the event that the primary disposal option becomes unavailable. Buford does not have a formal contingency strategy at this time; however, the informal policy is to arrange for temporary waste disposal at the Oak Grove Landfill, located in Winder:

Oak Grove Landfill
967 Carl Bethlehem Rd.
Winder, GA 30680

Several neighboring jurisdictions in Hall and Gwinnett Counties dispose of waste in landfills located in other jurisdictions in Georgia. These facilities would be tapped in a situation where the Oak Grove Landfill could not be utilized for temporary disposal.

5.1.3 Disaster Debris Management – Disposal Strategy

The City of Buford arranges its disaster management contingency strategies (see Section 2 and Section 4) with GEMA. As referenced in other sections, the City of Buford is partnering with GEMA and other area jurisdictions in establishing a Disaster Debris Management Plan that will address all procedures for waste disposal in the case of a disaster. This plan will include procedures will include recycling and diverting yard trimmings from lined landfills as well as disposal, processing, and public notification of alternative programs for residential and commercial waste disposal in the case of a disaster. Completion of the plan has been delayed

due to other GEMA priorities but is anticipated to be completed as soon as possible within the next couple years.

In the case that there is an interruption in disposal service or a need for disaster debris management, the City will inform customers of the break in service and/or interim waste disposal strategies via appropriate communication channels, including local print and electronic media and via postings on the City's website. Customers will also be informed of such situations via billing statements if and when appropriate. These communications strategies will be coordinated with GEMA and other jurisdictions as deemed appropriate.

5.2 Assessment Disposal

Buford disposes of an above average amount of waste compared to neighboring jurisdictions of similar population. This increased per capita waste amount is tied to the high number of commercial and industrial establishments in the city. Buford has a high concentration of industrial and commercial, a characteristic that is very unlikely to change over the planning period.

Despite goals to reduce the City's per capita waste production, the overall amount of waste will continue to increase with anticipated population growth. The City's residential yard trimming collection program does not require additional disposal facilities. The City mulches these materials and makes them available to community members free of charge.

The BFI- Richland Creek Landfill will provide sufficient disposal capacity to meet the City's residential, commercial, and industrial disposal needs. It is anticipated that the City will continue to collect residential waste within the city and that the franchise arrangement with United Waste Service will be renewed at the end of the five year agreement period in 2012. The Richland Creek Landfill as a disposal facility provides a high convenience factor for both Buford and UWS for disposing of waste at this facility, and therefore it is unlikely that waste disposal facility would change over the planning period.

As is pointed out in the Gwinnett 2008 SWMP, the solid waste management sector is largely regulated via the private market and is affected by a combination of economic factors, including ownership, contract costs, and distance to disposal or transfer station. When the Richland Creek Landfill reaches capacity (2022), it is likely that the City and contractors will have to take into account other factors in depositing of waste.

5.3 Statement of Needs and Goals

Goal: *Ensure that designated disposal facilities continue meet the needs of the City of Buford and that inert facilities complement achievement of environmental and waste reduction needs of the City.*

Need 5-1: Continue disposal at Richland Creek Road MSW.

Need 5-2: Continue to monitor available capacity of Richland Creek Landfill to insure that the facility can continue to meet City's disposal needs.

Need 5-3: Continue to work with the Gwinnett Emergency Management Agency to complete its Disaster Debris Management Plan.

SECTION 6 LAND LIMITATION ELEMENT

6.1 Inventory Land Areas

6.1.1 Inventory Areas with Natural Environmental Limitations

The following section details natural environmental areas of special interest to the siting and operation of solid waste handling facilities. The Georgia Department of Natural Resources establishes specific criteria regarding landfills in water supply watersheds, groundwater recharge areas, wetlands, state protected river corridors, and protected mountains. These areas and their respective regulations are examined in further detail below for their applicability to Buford.

Water Supply Watersheds

The City of Buford lies entirely in two large water supply watersheds. Because of this, it is unnecessary to include them on **Map 6-1, Areas with Natural Environmental Limitations**, which requires the mapping of only small water supply watersheds. These watersheds serve the DeKalb County Water System and the Cobb County-Marietta Water Authority.

Large drainage basins, greater than 100 square miles, are considered less vulnerable to contamination than small basins. Because of this, the state establishes specific regulations for landfills in small water supply watersheds, but none for those sited in large water supply watersheds. Within small water supply watersheds, new sanitary landfills must incorporate synthetic liners and leachate collection systems. Since Buford lies in large water supply watersheds, there are no special considerations that pertain to solid waste facilities in the city regarding this environmental area.

Groundwater Recharge Areas

A very small portion of the city is located in a groundwater recharge area. It is shown on **Map 6-1, Areas with Natural Environmental Limitations**. These areas should be avoided for the siting of new solid waste facilities because of the potential risk of groundwater contamination.

The DNR recognizes a difference between groundwater recharge areas and significant groundwater recharge areas. According to DNR rule 391-3-16.02(3)(a) within significant areas the DNR will only issue new permits for solid waste landfills if they incorporate synthetic liners and leachate collection systems. DNR rule 391-3-4-.05(1)(j) goes even further and requires new solid waste landfills or expansions of existing facilities within two miles of a significant groundwater recharge areas to have liners and leachate collections systems, with the exception of facilities accepting waste generated from outside the county in which the facility is located. In that case, the facility must be totally outside of any area designated as a significant groundwater recharge area.

Significant groundwater recharge areas are limited in the Piedmont region of Georgia and are not known to exist in the city. Within the Piedmont area, significant recharge areas are those with thick soils. Since the recharge area within the city is thought to be a probable area of thick soils, it should be considered a significant recharge area for planning purposes to err on the side of

caution. Groundwater recharge areas and a two-mile buffer around them are shown on the map to illustrate where the above mentioned regulations should apply.

Wetlands

Wetlands serve many unique and valuable ecological functions. These areas should be considered unsuitable locations when siting new landfills. There are multiple wetland areas identified within the City of Buford shown on **Map 6-1**.

The Department of Natural Resources has established that solid waste landfills may constitute an unacceptable use of a wetland. Alteration or degradation of a wetland requires a federal permit that is difficult to receive. DNR rule 391-4-.05(1)(e) prohibits the development of solid waste landfills in wetlands, unless evidence is provided to the Environmental Protection Division that use of such wetlands has been permitted or otherwise authorized under all other applicable state and federal laws and rules.

State Protected River Corridors and proximity to the Chattahoochee River

The Department of Natural Resources prohibits the development of new solid waste landfills within state protected river corridors. These corridors are found within 100 feet of both sides of large rivers with an average annual flow of at least 400 cubic feet per second. There are no major rivers considered to be state protected within the city of Buford.

The city is however in close proximity to the Chattahoochee River, which is protected through the Metropolitan River Protection Act. The act prohibits solid waste handling facilities within 2,000 feet of the river. These restrictions are in place from Buford Dam to Douglas County. The nearest city outparcel is located approximately 6,000 feet from the river. At this time, this restriction does not apply, but it is important to note it may become a factor if the City continues to annex to the west.

Protected Mountains

State regulations prohibit the development of new solid waste landfills in areas designated as protected mountains. Buford does not contain any protected mountains, and as a result, this prohibition does not apply within the city.

Proximity to Lake Lanier

Lake Lanier is in very close proximity (less than 100 feet in some locations) to the northern boundaries of the city. The lake serves as the drinking water reservoir for the city and for a large portion of the Atlanta region. The U.S. Army Corps of Engineers regulates activities on and in close proximity to the lake. In their 2004 Shoreline Management Plan, the corps does not establish regulations pertaining to landfill siting within close proximity to the lake. There are no special buffer requirements surrounding the lake. In light of public perception and the potential for contamination, landfill siting should be avoided in close proximity to the lake.

6.1.2 Inventory Areas with Land Use Limitations

The following section details limitations on solid waste facility siting put in place through Buford's zoning ordinance as well as Department of Natural Resources regulations. Local zoning, airport safety, floodplains, wetlands, fault areas, seismic impact areas, unstable areas,

and significant groundwater recharge areas are all examined for their relevance to solid waste planning in Buford.

Local Zoning/Land Use Ordinances

The City of Buford directly addresses the siting and operation of landfills in Article XII of its zoning ordinance. It states that a sanitary landfill may be permitted in any zoning district except a flood hazard district, as a special exception. Even though the ordinance allows the placement in any zoning category, it does establish several location restrictions. The landfill must maintain access to major non-residential roads and must be located on specific soil types.

Article XII, Section 1201, specifies that landfills must be accessible by a collector or major thoroughfare road. **Table 6-1** lists these roadways within the city that a landfill must be sited on.

Table 6-1: Major Roadways in Buford

Major and Minor Arterial Roads	Collector Roads
Georgia Highway 20	South Bogan Road
Peachtree Industrial Boulevard	North Bogan Road
Buford Highway (SR 13)	Hamilton Mill Road
Buford Dam Road	Thompson Mill Road
West Shadburn Avenue/Sugar Hill Road/West Main Street/Sawnee Avenue	Railroad Avenue
Shadburn Ferry Road	Little Mill Road
Gravel Springs Road (SR 324)	Riverside Road
	Friendship Road/Holiday Road (SR 347)

Source: Georgia Department of Transportation, 2007 STARS data.

Buford’s zoning ordinance states that “a sanitary landfill may be located only on soils/slopes approved by the Georgia Department of Natural Resources.” **Map 6-2, Areas with Land Use Limitations**, shows soils with slight to moderate limitations for sanitary landfills where they should be located in the future.

Airport Safety

Birds that can be attracted to landfills have been known to pose a threat to aircraft. As a result, the EPD has established guidelines limiting the siting of landfills within 5,000 or 10,000 feet of an airport, depending on the type of aircraft it serves. There are no airport facilities near the city of Buford. As a result there are no land use limitations in relation to this criterion.

Floodplains

The City of Buford does not permit landfills within flood hazard districts or flood plains. There are numerous flood plain areas in the city. They are shown on **Map 6-2, Land Use and Zoning Limitations**.

Wetlands

Wetland areas are shown in **Map 6-1** and are addressed in the previous section on natural limitations.

Fault Areas

DNR Rule 391-3-4-.05(1)(f) requires that new landfill units and lateral expansions of existing landfills shall not be located within 200 feet of a fault that has had displacement in the Holocene Epoch unless owner or operator demonstrates to EPD that an alternative setback distance of less than 200 feet will prevent damage to the structural integrity of the landfill unit and will be protective of human health.

There is a sizable fault zone running through Buford known as the Brevard Fault Zone. This fault, however, has not undergone metamorphosis since the Paleozoic Era (542-251 million years ago). The Holocene Epoch is the most recent geologic time period from roughly 12,000 years ago to the present. There are no recent fault displacements in the City of Buford and as a result this criterion is not necessary or applicable to map.

Seismic Impact Areas

According to the 2008 Update of the United States National Seismic Hazard Maps published by the United States Geological Survey, no Seismic Impact Areas exist within the city of Buford. In light of this it is unable to be mapped or addressed in this section.

Unstable Areas

Unstable areas are areas prone to landslides, karstic sinkholes or very soft ground. There is no landslide-prone or karstic sinkhole-prone land within the city of Buford. Soft ground will likely be found in floodplains that are already identified and disqualified from potential landfill siting. The soils identified as suitable in **Map 6-2** should not contain any unstable areas. Soils with unstable characteristics due to composition and/or slope are found outside of these mapped areas and should be avoided.

Significant Groundwater Recharge Areas

Groundwater recharge areas are shown on **Map 6-1** and addressed in **Section 6.1.1** dealing with natural limitations.

6.2 Local Procedures for Siting Solid Waste Facilities

Article XII of the City's zoning code addresses the procedure for siting solid waste facilities within the city. It states that a public hearing must be held in which it is determined that the conditions of the zoning ordinance regarding siting and operation have been met. Only after this is determined can a Special Exception Permit be issued for this land use by the City Commission. Specific procedures for ensuring consistency with the plan and notification of the public are detailed below.

6.2.1 Plan for Ensuring Plan Consistency

The following section details the appropriate procedure for ensuring consistency with this Solid Waste Management Plan. The burden of ensuring consistency is placed on the owner/operator of the proposed facility or expansion. The procedure is as follows:

No proposed facility or facility expansion will be sited within the city of Buford without first the provision of a "Written Statement of Consistency" to the City Commission stating that the

facility is consistent with the Solid Waste Management Plan. To determine if a proposed facility or facility expansion is consistent with the Plan, an owner/operator of the facility shall:

- A. At least 60 days prior to filing for a Special Exception Permit, submit to the City Commission a written statement documenting the following:
 1. How the proposed facility or facility expansion will meet the specific goals and/or needs identified in the SWM Plan, specifically what will be:
 - a. the impact upon the collection capability within the planning area;
 - b. the impact upon disposal capacity identified in the planning area; and
 - c. the impact to the waste reduction and recycling efforts within the planning area; and
 2. How the proposed facility or facility expansion and it's operation will impact the community; specifically what will be:
 - a. the impact to vehicle traffic and public safety around the proposed facility and throughout the city;
 - b. the impact to the financial viability of the existing solid waste management system within the city;
 - c. the impact to individual and business solid waste management rates;
 - d. the impact of the proposed facility or facility expansion to other natural or cultural resources within the city; and
 - e. the impact of the proposed facility or facility expansion to the current solid waste management infrastructure within the city, both public and private.
 3. How the owner/operator of the proposed facility (and any subsequent owner/operators if sold) will satisfy the financial assurance provisions of the plan.
 4. That the proper public notification process was followed (detailed in the section below)
 5. That the proposed facility or facility expansion is sited in an area deemed suitable according to the criteria listed in the plan; and
 6. That the proposed facility or facility expansion is sited in a location that is consistent with local zoning ordinances.
- B. The City Commission shall review the "Written Statement of Consistency" and shall determine if the proposed facility or facility expansion is consistent with the Solid Waste Management Plan. Within 30 days of making their determination the City Commission shall notify the applicant 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 applicant may address the inconsistencies and resubmit their request for another review.

6.2.2 Procedure for the Notification of the Public

A public hearing must be held before a Special Use Permit can be issued by the City Commission. The public notification for this hearing should follow the City's standard procedures. This includes an advertisement in the local newspaper as well as a listing on the city's website. In light of the significant impacts landfills can have on neighboring areas, all adjacent property owners shall be notified directly in writing by mail regarding the hearing.

6.3 Assessment of Land Limitation

Within the city of Buford, there is limited land available for the siting of a new landfill facility because of factors pertaining to natural limitations and local regulations detailed in **Section 6.1**.

Based on the criteria examined, the site must satisfy each applicable condition on the following checklist to be considered a suitable location.

Table 6-2: Checklist for Landfill Siting

Criteria	Criteria Applies and is Satisfied	Criteria Does not Apply
Groundwater Recharge Areas. If located within two miles of a probable significant groundwater recharge area the landfill must incorporate a liner and leachate collection system.		
Groundwater Recharge Areas. If the site will accept waste from another county it cannot be located in a probable significant groundwater recharge area regardless of whether it contains a liner and leachate collection system.		
Wetlands. If a landfill is sited for a wetland area evidence must be provided to the EPD that the use of the wetlands has been permitted and authorized under all state and federal laws and rules.		
Roadway Access. The site must have access on a major roadway listed in Table 6-1.		
Soil Suitability. Site must be on soil types approved by the Georgia Department of Natural Resources.		
Floodplains. Site must be outside of floodplains indicated on Map 6.1.		
Unstable Areas/Soils. Site must be located on soils with slight or moderate suitability for landfills as indicated in Map 6.2.		

6.4 Statement of Needs and Goals

The City of Buford has clear procedures and guidelines for siting and operating landfills that are codified in their zoning ordinance. The ordinance does not however ensure siting decisions that are consistent with the Solid Waste Management Plan. It is recommended that Article XII of the zoning ordinance be amended with additional condition for the issuance of a landfill permit, as reflected in Need 6-3. Other than this change, no other needs have been identified at this time to amend or change the City’s regulations. It has been determined that within the planning period there is no need to site a new solid waste facility or expand the existing facility. When the time, need and opportunity come to site new or expand existing facilities these regulations should be reexamined to ensure compliance with changing state environmental regulations and the desires of Buford’s citizenry.

Goal: *Continue to protect the natural and built environment within Buford and adjacent areas through proactive land planning and smart solid waste facility decisions.*

Need 6-1: Continue to adhere to regulations established in Article XII of the City of Buford’s Zoning Ordinance for the proper siting and operation of sanitary landfills and landfills.

Need 6-2: Amend Article XII to incorporate the following condition “Consistency with the Solid Waste Management Plan shall be demonstrated through the submittal of a “Written Statement of Consistency” by the owner/operator to the City Commission. The requirements for this statement can be found in Section 6.2.1 of the Solid Waste Management Plan.”

Need 6-3: Keep abreast of applicable state environmental regulations for siting, expanding and operating solid waste facilities and amend city regulations as necessary.

SECTION 7 EDUCATION AND PUBLIC INVOLVEMENT ELEMENT

As environmental resources become more sensitive and land appropriate for landfills becomes scarcer (see **Section 6**), the importance of influencing the way people think about waste becomes increasingly important. Waste reduction and recycling is more important each day not just because of the increasing scarcity of land for landfills but also because managing the waste stream requires a great deal of effort and energy that helps contribute to the depletion of natural resources.

Minimizing and mitigating the negative impacts of waste largely relates to increasing community awareness of the issues and opportunities available. Without proper and adequate education and public involvement, we cannot expect people to act differently to address waste practices that have an adverse affect on the environment.

The Buford community has a wealth of great resources readily available to help with public education and involvement activities related to waste management. Over the solid waste planning period, it will be necessary for Buford to do more to leverage the power of these local, regional, and statewide resources.

7.1 Inventory of Existing Public Education Programs and Public Involvement Opportunities

The majority of Buford's public education and public involvement activities for solid waste management are provided by partner agencies that specialize in public outreach and education. Gwinnett Clean & Beautiful (GCB) and Keep Hall Beautiful (KHB) support the City by providing a breadth of solid waste and recycling information to the community. These agencies have a far reach in the Gwinnett and Hall Counties and provide services to all interested parties.

Gwinnett Clean & Beautiful

Gwinnett Clean & Beautiful has a variety of solid waste educational resources and programs for citizens and businesses and is the primary education and public involvement intermediary for Buford community members. The organization has a dynamic website that includes resources on the following:

- Recycling, garbage, and litter reduction
- Promoting solid waste reduction and collection mechanisms
- Guidance for statewide solid waste management efforts
- Information on how to report litter issues and clean-up.

As discussed in **Section 2**, GCB also offers a waste stream analysis and waste reduction lunch-and-learn program for all interested businesses. GCB resources that are relevant to Buford are depicted in **Table 7-1**.

Keep Hall Beautiful

Keep Hall Beautiful is very active in both educational and public involvement efforts related to solid waste. While most Buford residents are within Gwinnett County, KHB is another nearby Georgia Clean and Beautiful affiliate that is available to Buford community members. KHB hosts “Waste in Place” workshops for area educators to help them learn how to incorporate reduction, recycling, and litter prevention components in their curriculum. The agency also offers a “Crimes Against the Environment” training program to local law enforcement officials and relevant code enforcement personnel as well as offers several volunteer opportunities to community members to help with community clean-ups, recycling initiatives, and other efforts. All programs are shown in **Table 7-1**.

Buford City Schools

Currently, the City’s school system, Buford City Schools, has a fragmented approach to solid waste education and involvement. Individual schools and classrooms host recycling and reuse campaigns on an ad hoc basis, and early education teachers may touch upon recycling and waste reduction indirectly through topics that are a part of the official curriculum. Despite these supplementary efforts, Buford City Schools do not have a formal approach for solid waste management education and involvement efforts, largely because of the multitude of other requirements imposed by the State. Moving forward, the City and its partners (GCB and KHB) should work in partnership with Buford City Schools to develop a formal strategy for including relevant solid waste management topics and programs within classrooms and broader system-wide programs.

Litter Control Ordinance

The City has a Litter Control Ordinance that prohibits dumping, placing, throwing, or leaving of litter on any public or private property within the City of Buford. The ordinance also prohibits the dumping of material from trucks and other vehicles onto roadways. Violators are fined between \$200 and \$1,200. This ordinance is enforced by law enforcement agencies and other pertinent agencies.

Certified Green Communities Program

The Atlanta Regional Commission (ARC) is active in promoting sustainable practices that minimize human impact on the environment. ARC recently initiated a Green Communities certification program, which aims to increase local knowledge and efforts in greening communities in the Atlanta Region. One of 10 categories in this certification process is “recycling and solid waste reduction.” Buford is not yet certified under the Green Communities Program but could pursue this certification in the future to help meet goals.

Table 7-1: Existing Environmental Education Initiatives Available to City of Buford Residents and Businesses

Program/Activity	Operated by	Target Audience	Description of Impact
Business Recycling Guide Online	Gwinnett Clean & Beautiful	Businesses	Diverts paper, cans, glass, newspaper and plastic from landfill
Steps for Recycling at Home Online Guide	Gwinnett Clean & Beautiful	Residents	Divert paper, cans, glass, newspaper and plastic from landfill

City of Buford Solid Waste Management Plan [2008 to 2019]

Program/Activity	Operated by	Target Audience	Description of Impact
Christmas Tree Recycling	Gwinnett Clean & Beautiful; Keep Hall Beautiful	Residents	Divert trees from landfill
Georgia Industrial Materials Exchange	Georgia Pollution Prevention Assistance Division	Businesses	Allows one company's by-products to be re-used by another company
Adopt-a Road Program	Gwinnett County Department of Transportation, Gwinnett Clean & Beautiful	Community Groups and Businesses	Reduce amount of trash along roadways
Hall County Adopt-A-Stream	Keep Hall Beautiful	Community Groups and Businesses	Increased understanding of importance of stream monitoring and reduced water pollution
Waste in Place Workshops	Keep Hall Beautiful	Direct (Area teachers); Indirect (Area students)	Waste reduction, recycling and litter reduction messages incorporated in more classrooms; improved knowledge by young people of ways to reduce trash
Crimes Against the Environment Classes	Keep Hall Beautiful	Local law enforcement and enforcement officials	Better enforcement of environmental laws and (indirectly) improved litter collection and disposal processes
Community Clean-Ups	Keep Hall Beautiful	Community Groups and Residents	Diverts litter from general community and helps properly dispose of large appliances, furniture, etc.
Certified Green Communities Program	Atlanta Regional Commission	Municipalities and counties	Leads to more effective waste reduction programs and brings public awareness to waste reduction efforts
Waste Reduction Lunch-and-Learns	Gwinnett Clean & Beautiful	Small, medium, & large businesses	Increases employee knowledge of waste reduction opportunities; diverts commercial and industrial waste from landfill
Free Waste Stream Audits	Gwinnett Clean & Beautiful	Small, medium, & large businesses	Leads to source reduction in production process

Sources: Gwinnett Clean & Beautiful, Keep Hall Beautiful, Atlanta Regional Commission, Pollution Prevention Assistance Division, DNR, March 2009.

*Participation data for Buford community members is unavailable.

7.2 Assess Adequacy of Environmental Education Initiatives

The Buford community is very fortunate to have access to two active affiliates of Georgia Clean and Beautiful. Both Gwinnett Clean & Beautiful and Keep Hall Beautiful have a Web-based as well as physical presence in the community due to the large breadth of activities they manage. KHB and GCB encourage supportive community led recycling and waste reduction efforts, and

both agencies are very proactive in source reduction and recycling through their education programs and online resources.

Because Buford is one of many municipalities included in these efforts, it is possible that available programs, resources, and involvement opportunities do not always reach the consumer level. Right now, the City of Buford has limited knowledge of the effect of county-run education and public involvement efforts on the decision to reduce waste by Buford community members.

In Buford, the industrial and commercial sectors are the largest contributors to the waste stream, 42 percent and 31 percent of waste stream respectively (2008 figures). Currently, a handful of programs are targeted towards educating these groups about waste reduction and associated environmental concerns. Programs such as Adopt-A-Stream, Community Clean-Ups, Take Pride in Gwinnett, and Adopt-a-Road allow community members to engage in public involvement activities. Waste Stream Audits and Waste Reduction Lunch-and-Learns led by GCB help with public involvement and/or educational efforts but may not be highly utilized by community members.

As identified in Section 2, the largest contributors to the waste stream are paper (35 percent of total waste) and organics (31 percent of total waste stream). As such, these materials offer the greatest opportunity for waste reduction and increased education/involvement moving forward.

Paper Waste Reduction

Corrugated cardboard is the second largest single contributor to the waste stream at 9.6 percent of the total waste stream. Currently, United Waste Service and VISY Inc. both offer pick-up recycling services for corrugated cardboard. A very small percentage of UWS customers use the cardboard recycling service. As such, there appears to be some need to educate businesses on the benefit of recycling these and other paper products. Community residents may also need increased education on the recyclability of paper products.

Organic Waste Reduction

The highest single contributor to the waste stream is food waste (16.4 percent). Currently there are few educational or public involvement activities targeting this area of the waste stream. There is an opportunity for the City to work in partner with KHB and GCB to educate consumers on composting and minimizing waste.

School Education Programs

Educating school-aged children and teens about recycling and waste reduction can pay important dividends to the broader community as these kids become adults. Kids that learn to recycle, compost, and engage in other waste reducing activities early-on are more likely to do engage in these activities as adults. In order to achieve waste reduction goals, it is important that the City of Buford partner with Buford City Schools to incorporate more waste reduction and recycling messages in curriculum, special programs, and activities.

7.3 Statement of Needs and Goals

Goal: *Support existing public involvement and education efforts related to solid waste while working to expand programs that target major material contributors to Buford's solid waste stream.*

Need 7-1. Survey community businesses and residents to measure the effectiveness of current education and public involvement efforts as well as potential areas of improvement.

Need 7-2. Partner with Gwinnett Clean & Beautiful and Keep Hall Beautiful to better target Buford businesses for public education and reduction efforts related to paper and organic waste reduction.

Need 7-3. Work collaboratively with Buford City Schools in any effort to promote waste reduction in public education.

Need 7-4. Work with partners to promote solid waste education and public involvement opportunities at local events.

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SECTION 8 IMPLEMENTATION STRATEGY

The previous sections in this Solid Waste Management Plan (SWMP) demonstrate that the City of Buford is well positioned to meet its solid waste management needs over the planning period (2008-2019). The City’s waste collection and disposal arrangements are working well. Buford community members and businesses also have access to great recycling and waste reduction resources in the area. However, in order to ensure a continued high level of solid waste management and achievement of waste reduction goals established by the state and the City, the City will need to work proactively to achieve goals already laid out in this plan.

This section provides a summary of needs and goals identified in the assessment portion of this SWMP and lays out a year-specific implementation strategy. A five year short-term work program is also provided.

8.1 Summary of Needs and Goals

The City’s needs and goals identified for the planning period largely relate to maintenance of existing systems and reaching waste reduction goals. Continued partnerships with area agencies, including Gwinnett Clean & Beautiful, Keep Hall Beautiful, Gwinnett Emergency Management Association, and Richland Creek Landfill, will be critical for meeting solid waste management needs. The needs and goals identified for this planning period are summarized in **Table 8-1**.

**Table 8-1: Summary of Goals and Needs by Planning Element
City of Buford, Solid Waste Management (2008-2019)**

Element	Description of Goal/Need
<i>Waste Reduction Goal</i>	<i>Improve waste reduction participation rates and better track participation by the commercial, industrial, and business sectors in source reduction and recycling efforts.</i>
Waste Reduction	Need 3-1: Improve linkage between Buford businesses and area recycling and source reduction programs.
Waste Reduction	Need 3-2: Provide promotional materials for local recycling program from Gwinnett Clean & Beautiful (GCB) and Keep Hall Beautiful (KHB) to Buford residents at City Hall.
Waste Reduction	Need 3-3: Work with Gwinnett Clean & Beautiful and Keep Hall Beautiful to encourage and monitor local composting efforts.
Waste Reduction	Need 3-4: Interview a sample of area businesses to determine participation in and ways to increase voluntary recycling. GCB is available to help with this effort.
Waste Reduction	Need 3-5: Continue to monitor community support for curbside recycling and complete feasibility study as determined appropriate.
<i>Collection Goal</i>	<i>Continue offering transparent waste collection programs, while increasing efforts to divert recyclable materials from the waste collection stream.</i>
Collection	Need 4-1: Ensure continuation of capital replacement fund to replace residential waste collection fleet as needed during planning period.
Collection	Need 4-2: Insure continuation of capital replacement fund to replace yard trimming collection vehicles as needed during planning period.
Collection	Need 4-3: Evaluate effectiveness of and renew franchise agreement for commercial and industrial waste collection at end of current term.
Collection	Need 4-4: Maintain operation of Yard Waste Chipper.

City of Buford Solid Waste Management Plan [2008 to 2019]

Element	Description of Goal/Need
Collection	Need 4-5: Work with area businesses and business recycling contractors to increase participation in pick-up recycling programs.
Collection	Need 4-6: Continue to work with the Gwinnett Emergency Management Agency to develop a Disaster Debris Management Plan.
<i>Disposal Goal</i>	<i>Ensure that designated disposal facilities continue meet the needs of the City of Buford and that inert facilities complement achievement of environmental and waste reduction needs of the City.</i>
Disposal	Need 5-1: Continue disposal at Richland Creek Road MSW landfill.
Disposal	Need 5-2: Continue to monitor available capacity of Richland Creek Landfill to insure that the facility can continue to meet City's disposal needs.
Disposal	Need 5-3: Continue to work with the Gwinnett Emergency Management Agency to complete its Disaster Debris Management Plan.
<i>Land Limitation Goal</i>	<i>Continue to protect the natural and built environment within Buford and adjacent areas through proactive land planning and smart solid waste facility decisions.</i>
Land Limitation	Need 6-1: Continue to adhere to regulations established in Article XII of the City of Buford's Zoning Ordinance for the proper siting and operation of sanitary landfills and landfills.
Land Limitation	Need 6-2: Amend Article XII to incorporate the following condition "Consistency with the Solid Waste Management Plan shall be demonstrated through the submittal of a "Written Statement of Consistency" by the owner/operator to the City Commission. The requirements for this statement can be found in Section 6.2.1 of the Solid Waste Management Plan."
Land Limitation	Need 6-3: Keep abreast of applicable state environmental regulations for siting, expanding and operating solid waste facilities and amend city regulations as necessary.
<i>Education and Public Involvement Goal</i>	<i>Support existing public involvement and education efforts related to solid waste while working to expand programs that target major material contributors to Buford's solid waste stream.</i>
Education and Public Involvement	Need 7-1. Survey community businesses and residents to measure the effectiveness of current education and public involvement efforts as well as potential areas of improvement.
Education and Public Involvement	Need 7-2. Partner with Gwinnett Clean & Beautiful and Keep Hall Beautiful to better target Buford businesses for public education and reduction efforts related to paper and organic waste reduction.
Education and Public Involvement	Need 7-3. Work collaboratively with Buford City Schools to ensure that waste reduction is included in curriculum.
Education and Public Involvement	Need 7-4. Work with partners to promote solid waste education and public involvement opportunities at local events.

Source: Analysis of Existing Conditions. See Sections 1-7 of this report.

8.2 Implementation Strategy/Short Term Work Program

The Implementation Strategy shows the yearly schedule for implementing identified strategies. Table 8-2 shows activities, organized by the five core planning elements. Estimated costs (if applicable), parties responsible, and funding source are listed. The first five years of the Implementation Strategy represent's the City's Short Term Work Program. This program will be updated again in 2014 to reflect any changing solid waste needs or priorities in Buford.

City of Buford Solid Waste Management Plan [2008 to 2019]

Table 8-2: City of Buford SWMP Implementation Strategy

Program/ Activity	Years Program/Activity Takes Place												Responsible Party	Estimated Cost	Funding Source
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019			
Waste Reduction Element															
Provide and maintain links to area recycling and source reduction programs on the City website.	X	X	X	X	X	X	X	X	X	X	X	X	City	NA	City
Provide promotional materials for local recycling program from Gwinnett Clean & Beautiful (GCB) and Keep Hall Beautiful (KHB) to Buford residents at City Hall.	X	X	X	X	X	X	X	X	X	X	X	X	City	NA	City
Work with GCB and KHB to encourage and monitor local composting efforts.	X	X	X	X	X	X	X	X	X	X	X	X	City	NA	City
Interview a sample of area businesses to determine participation in and ways to increase voluntary recycling.	X	X	X	X									City, GCB		
Continue to monitor community support for curbside recycling and complete feasibility study as determined appropriate.	X	X	X										City	NA	City
Collection Element															
Maintain operation of Residential Collection Truck Fleet	X	X	X	X	X	X	X	X	X	X	X	X	City	\$150,000	City
Maintain operation of Yard Trash Collection Truck Fleet	X	X	X	X	X	X	X	X	X	X	X	X	City	\$40,000	City

City of Buford Solid Waste Management Plan [2008 to 2019]

Table 8-2: City of Buford SWMP Implementation Strategy

Program/ Activity	Years Program/Activity Takes Place												Responsible Party	Estimated Cost	Funding Source
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019			
Evaluate effectiveness of and renew franchise agreement for commercial and industrial waste collection at end of current term		X	X										City	NA	City
Maintain operation of Yard Waste Chipper	X	X	X	X	X	X	X	X	X	X	X	X	City	\$150,000	City
Work with area businesses and business recycling contractors to increase participation in pick-up recycling programs.		X	X										City	NA	City
Continue to work with the Gwinnett Emergency Management Agency to develop a Disaster Debris Management Plan.		X	X										City	NA	City
Disposal Element															
Continue disposal at Richland Creek Road MSW landfill	X	X	X	X	X	X	X	X	X	X	X	X	City	\$40,000	City
Continue to monitor available capacity of Richland Creek Landfill to insure that the facility can continue to meet City's disposal needs.	X	X	X	X	X	X	X	X	X	X	X	X	City	NA	City
Continue to work with the Gwinnett Emergency Management Agency to complete its Disaster Debris Management Plan.	X	X	X	X	X	X	X	X	X	X	X	X	City	NA	City

City of Buford Solid Waste Management Plan [2008 to 2019]

Table 8-2: City of Buford SWMP Implementation Strategy

Program/ Activity	Years Program/Activity Takes Place												Responsible Party	Estimated Cost	Funding Source
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019			
Land Limitation Element															
Continue to adhere to regulations established in Article XII of the City of Buford's Zoning Ordinance for the proper siting and operation of sanitary landfills and landfills.	X	X	X	X	X	X	X	X	X	X	X	X	City	NA	City
Amend Article XII to incorporate the following condition "Consistency with the Solid Waste Management Plan shall be demonstrated through the submittal of a "Written Statement of Consistency" by the owner/operator to the City Commission. The requirements for this statement can be found in Section 6.2.1 of the Solid Waste Management Plan."		X	X										City	NA	City
Keep abreast of applicable state environmental regulations for siting, expanding and operating solid waste facilities and amend city regulations as necessary.	X	X	X	X	X	X	X	X	X	X	X	X	City	NA	City

City of Buford Solid Waste Management Plan [2008 to 2019]

Table 8-2: City of Buford SWMP Implementation Strategy

Program/ Activity	Years Program/Activity Takes Place												Responsible Party	Estimated Cost	Funding Source
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019			
Education and Public Involvement Element															
Survey community businesses and residents to measure the effectiveness of current education and public involvement efforts as well as potential areas of improvement.			X			X			X			X	City, GCB, KHB	NA	City
Partner with Gwinnett Clean & Beautiful and Keep Hall Beautiful to better target Buford businesses for public education and reduction efforts related to paper and organic waste reduction.	X	X	X	X	X	X	X	X	X	X	X	X	City	NA	City
Work collaboratively with Buford City Schools in any effort to promote waste reduction in public education.	X	X	X	X	X	X	X	X	X	X	X	X	City	NA	City
Work with partners to promote solid waste education and public involvement opportunities at local events.	X	X	X	X	X	X	X	X	X	X	X	X	City	NA	City



Appendix

Public Hearing One Information
Public Hearing Two Information
Landfill Capacity Letter
Plan Submittal Resolution
Transmittal Affidavit





March 16, 2009

SOLID WASTE MANAGEMENT PLAN UPDATE PUBLIC HEARING

In attendance were:

Bryan Kerlin, City Manager

Lamar Sudderth, Administrative Assistance

Kim Wolfe, City Clerk

Jim Summerbell, JJ&G Consultant

There were no members of the general public in attendance.

Mr. Kerlin stated that this was a hearing to inform the public about the purpose and procedures to be followed for the update of the Solid Waste Management Plan.

There was no public comment.

Mr. Kerlin authorized Jim Summerbell, consultant with JJ&G, to proceed with the update.


Bryan Kerlin, City Manager

3-16-09
Date


Kim C. Wolfe, City Clerk

3-16-09
Date

Gwinnett Daily Post

"Local News For Local People"

P. O. Box 603
Lawrenceville, Georgia 30048

Phone (770) 983-9205
Fax (770) 339-8082

PUBLISHER'S AFFIDAVIT

STATE OF GEORGIA
COUNTY OF GWINNETT

Personally appeared before the undersigned, a notary public within and for said county and state, J.K. Murphy, Publisher of the *Gwinnett Daily Post*, published at Lawrenceville, County of Gwinnett, State of Georgia, and being the official organ for the publication of legal advertisements for said county, who being duly sworn, states on oath that the report of

928-06602789

a true copy of which is hereto attached, was published in said newspaper on the following date (s):

March 13, 15, 2009

J.K. Murphy, PUBLISHER

Todd Cline

By: Todd Cline
Editor

Sworn to and subscribed before me this 18 day
of March, 2009.

Tina L. Partridge

Tina L. Partridge
Notary Public

My commission expires June 23, 2011

LEGAL PUBLIC NOTICE

The City of Buford will hold a public hearing on Monday, March 16, 2009 at 7:00 p.m. at Buford City Hall, 2300 Buford Highway, Buford, Georgia 30518. The purpose of the meeting is to inform the public about the purpose of the plan and the process to be followed in the preparation of the solid waste management plan, as well as to elicit community input on needs and goals.
928-06602789.3/13,15

TINA L. PARTRIDGE
Notary Public, Gwinnett County, Georgia
My Commission Expires June 23, 2011

AFFIDAVIT OF PUBLICATION

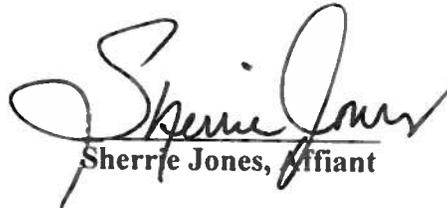
State of Georgia
County of Hall

Personally appeared before the undersigned, Sherrie Jones who having been duly sworn, on oath, says that she is the Advertising Director of THE TIMES, and that the Advertisement was Published in THE TIMES:

Ad#214417

Public Hearing

3/13, 15


Sherrie Jones, Affiant

Sworn to and Subscribed before me

This 17 day of March, 2009


Notary Public (Linda Owens)

Linda M. Owens
NOTARY PUBLIC
Hall County, Georgia
My Commission Expires
6/23/2012

My Commission Expires: _____

326-Public
Hearings

gpn16

The City of Buford will hold a public hearing on Monday, March 16, 2009 at 7:00 p.m. at Buford City Hall, 2300 Buford Highway, Buford, Georgia 30518. The purpose of the meeting is to inform the public about the purpose of the plan and the process to be followed in the preparation of the solid waste management plan, as well as to elicit community input on needs and goals.

214417 3/13, 15

BUFORD CITY COMMISSION

May 4, 2009

The regular monthly meeting was held on May 4, 2009 and all Commission members were present.

Chairman Beard called the meeting to order at 7:00 pm and Mr. Burge led the Pledge of Allegiance.

Motion by Mrs. Smith, seconded by Mr. Burge to approve the agenda for the May 2009 Commission meeting as presented.

Motion by Mr. Burge, seconded by Mrs. Smith to approve the minutes from the April 1, 2009 commission meeting as presented by staff.

Ayes 3
Nays 0

#SUP-09-02: Car Collection, Inc. requests a special use permit for the property located at 3789 Buford Drive. The special use permit requested is to allow used car sales. There was no one present to speak on behalf of the request. Motion by Mr. Burge, seconded by Mrs. Smith to deny the request.

Ayes 3
Nays 0

#SUP-09-03: Gwinnett Auto Mall, LLC requests a special use permit for the property located at 3547 Buford Drive. The special use permit requested is to allow a used car dealership. No one spoke against the request. Motion by Mrs. Smith, seconded by Mr. Burge to approve the request with the following conditions:

1. Outdoor repair of automobiles shall be prohibited.
2. Collection of junk vehicles shall not accumulate on the site over any period of time.
3. All vehicles for sale shall occupy parking spaces and the parking of vehicles on grassed areas or within the right-of-way shall be prohibited. Section X of the City of Buford's Zoning Ordinance shall be followed concerning parking.
4. Section XI of the City of Buford's Zoning Ordinance shall be followed concerning permanent and temporary signs.
5. There shall be no outdoor speakers or public address system located at this site.

Ayes 3
Nays 0



#SUP-09-04: Christian Beiler requests a special use permit for the property located at 410 South Hill Street. The special use permit requested is to allow a daycare center. No one spoke against the request. Motion by Mr. Burge, seconded by Mrs. Smith to approve the request with the following conditions:

1. The existing screening that was required as part of the 2006 special use permit shall remain undisturbed and replanting within the buffer if any gaps exist.
2. Permanent structures within the required buffer shall be prohibited. Typical structures associated with a daycare facility shall be allowed.

Ayes 3

Nays 0

#SUP-09-05: David Watson requests a special use permit for the property located at 70 North Gwinnett Street. The special use permit requested is to allow the rebuilding of transmissions. No one spoke against the request. Motion by Mr. Burge, and seconded by Mrs. Smith to approve the request with the following conditions:

1. Outdoor storage of parts or transmissions shall be prohibited.
2. Repair of transmissions shall be done inside the building.
3. Section X of the City of Buford's Zoning Ordinance shall be followed concerning parking.
4. Section XI of the City of Buford's Zoning Ordinance shall be followed concerning permanent and temporary signs.

Ayes 3

Nays 0

#SUP-09-06: Traffic Jams Motorsports requests a special use permit for the property located at 1955 Buford Highway, Suite B & C. The special use permit requested is to allow wheel and tire installation and mechanical electrical system work. No one spoke against the request. Motion by Mrs. Smith, and seconded by Mr. Burge to approve the request with the following conditions:

1. All component installation and car repair shall take place within the building. Outdoor installation shall be prohibited.
2. Automobiles waiting for installation or repair service shall be stored inside the building at the end of each business day.
3. Outdoor storage shall be prohibited.
4. Section XI of the City of Buford's Zoning Ordinance shall be followed concerning permanent and temporary signs.
5. Section X of the City of Buford's Zoning Ordinance shall be followed concerning off street parking.

Ayes 3

Nays 0



Chairman Beard stated that this ended the public hearing portion of the meeting.

* Motion by Mrs. Smith, seconded by Mr. Burge to authorize Chairman Beard, on behalf of the City, to sign documents for transmittal of the 2009 to 2019 City of Buford Solid Waste Management Plan to the Department of Community affairs (DCA).

Ayes 3
Nays 0

Motion by Mr. Burge, seconded by Mrs. Smith to authorize the City Manager, on behalf of the City, to enter into an agreement with PBS&J for a value engineering study for SR13 widening project, PI 132950, from Sawnee Avenue to SR347 utilizing SPLOST proceeds.

Ayes 3
Nays 0

Motion by Mrs. Smith, seconded by Mr. Burge to authorize application submittal to the Georgia Environmental Facilities Authority (GEFA) for federal stimulus funding for the Southside Sewer Plant expansion.

Ayes 3
Nays 0

Motion by Mr. Burge, seconded by Mrs. Smith to adopt the Identity Theft Prevention Ordinance in compliance with federal regulations.

Ayes 3
Nays 0

Motion by Mrs. Smith, seconded by Mr. Burge to approve Door to Door Sales Ordinance subject to the approval of the City Attorney.

Ayes 3
Nays 0

Motion by Mr. Burge, seconded by Mrs. Smith to authorize payoff of General Obligation and Gas Revenue Bonds held at Peoples Bank & Trust.

Ayes 3
Nays 0

Motion by Mr. Burge, seconded by Mrs. Smith to approve bleacher replacement on the visitors' side at the old Buford High stadium utilizing SPLOST proceeds.

Ayes 3
Nays 0



Motion by Mr. Burge, seconded by Mrs. Smith to authorize final payment to Transcontinental Gas Pipeline for meter station delivery point improvements subject to the approval of the City Attorney.

Ayes 3
Nays 0

Motion by Mrs. Smith, seconded by Mr. Burge to authorize payment number 2 to Foremost Pipeline for meter station expansion located in Walton County in the amount of \$25,994.27.

Ayes 3
Nays 0

Motion by Mrs. Smith, seconded by Mr. Burge to authorize payment number 6 for Bold Springs Road natural gas main extension in the amount of \$12,500.17.

Ayes 3
Nays 0

Motion by Mr. Burge, seconded by Mrs. Smith to amend the school budget and approve funding for the summer sports programs.

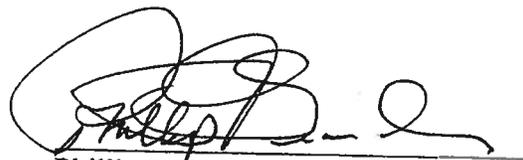
Ayes 3
Nays 0

Mr. Kerlin gave the City Manager's report.

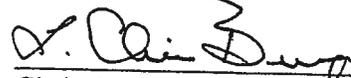
Mr. Jay gave the City Attorney's report.

After some brief comments from the audience, motion by Mr. Burge, seconded by Mrs. Smith to adjourn.

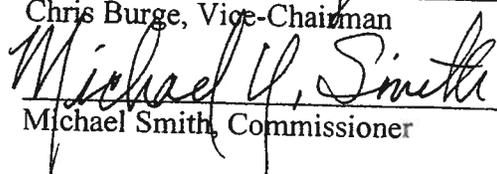
Ayes 3
Nays 0



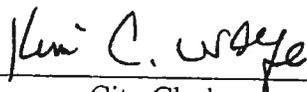
Phillip Beard, Chairman



Chris Burge, Vice-Chairman



Michael Smith, Commissioner



City Clerk

5-4-09

Date

Gwinnett Daily Post

"Local News For Local People"

P. O. Box 603
Lawrenceville, Georgia 30048

Phone (770) 963-9205
Fax (770) 339-8082

PUBLISHER'S AFFIDAVIT

STATE OF GEORGIA
COUNTY OF GWINNETT

Personally appeared before the undersigned, a notary public within and for said county and state, J.K. Murphy, Publisher of the ~~Gwinnett Daily Post~~, published at Lawrenceville, County of Gwinnett, State of Georgia, and being the official organ for the publication of legal advertisements for said county, who being duly sworn, states on oath that the report of

934-07599520

a true copy of which is hereto attached, was published in said newspaper on the following date (s):

April 30, May 1, 2009

J.K. Murphy, PUBLISHER

Todd Cline
By: Todd Cline
Editor

Sworn to and subscribed before me this 5 day
of May, 2009.

Tina L. Partridge
Tina L. Partridge
Notary Public

My commission expires June 23, 2011

TINA L. PARTRIDGE
Notary Public, Gwinnett County, Georgia
My Commission Expires June 23, 2011



City Of Buford Georgia
 2300 Buford Hwy
 Buford Georgia 30518

To: Mr. Lamar Sudderth

This letter serves as disposal capacity assurance for waste generated by the City of Buford from 2009 to 2019. The Georgia EPD permit number for this facility is 067-032D(SL). This assurance is based on the City of Buford disposing of the following tons of waste at this facility from 2009 to 2019.

	Current Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
TOTAL TONS	42,999	43,690	44,381	45,072	45,763	46,454	47,145	47,837	48,529	49,220	49,912

Source: Total tons based on (1) assumption of a steady 18.8 lbs/person/day disposal rate with no reduction in the disposal rate and (2) population projections from the 2030 City of Buford Comprehensive Plan.

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

Sincerely,



Tim Johnson, Division Manager
 Richland Creek Landfill
 5691 Richland Creek Road
 Buford, GA.30518

CITY OF BUFORD
GEORGIA COMPREHENSIVE SOLID WASTE MANAGEMENT ACT
A RESOLUTION TO TRANSMIT

WHEREAS, the Georgia Comprehensive Solid Waste Management Act requires county and municipal governments to prepare a local solid waste management plan periodic update; and

WHEREAS, the City has completed an update to the 2009 - 2019 Solid Waste Management Plan for the City of Buford, Gwinnett County, Georgia;

WHEREAS, the City has complied with the Rules of Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management (Chapter 110-4-3) including public participation requirements;

NOW, THEREFORE, BE IT RESOLVED by the Buford City Commission that the document entitled 2009 - 2019 Solid Waste Management Plan for the City of Buford, Gwinnett County, Georgia may be sent to the Department of Community Affairs (DCA) and other agencies for review and approval.

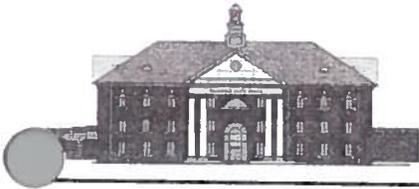
SO RESOLVED this 4th day of May, 2009.



CHAIRMAN
BUFORD CITY COMMISSION

ATTEST:

Mini C. Wayne
CITY CLERK



City of Buford

2300 Buford Highway • Buford, Georgia • 30518 • (770) 945-6761 • FAX (770) 932-7976

Atlanta Regional Commission
Land Use Division/RDC
40 Courtland Street NE
Atlanta, GA 30303

RE: City of Buford Solid Waste Management Plan
2008-2019 Transmittal Resolution

To whom it may concern,

On May 4th, 2009, the Buford City Commission submitted a transmittal resolution for the City of Buford Solid Waste Management Plan addressed to the Department of Community Affairs and other agencies. The Buford City Commission recognizes, in accordance with Chapter 110-4-3-.05 (4)(a) of the Minimum Planning Standards and Procedures for Solid Waste Management of the Georgia Department of Community Affairs (DCA), that the transmittal resolution resolved and approved by the Buford City Commission on May 4, 2009 should have been addressed and sent to the Atlanta Regional Commission.

Kim C. Wolfe, City Clerk
Buford City Commission

Sworn to and subscribed before me this

20th day of February, 2010.

NOTARY PUBLIC



**Resolution to Adopt the Solid Waste Management Plan
for the City of Buford, Georgia**

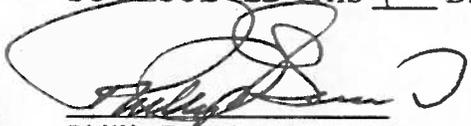
WHEREAS, The Georgia Comprehensive Solid Waste Management Act requires county and municipal governments to prepare a local solid waste management plan and periodic update; and

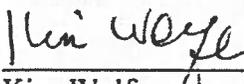
WHEREAS, the City of Buford, Georgia has compiled, reviewed and modified an update to the Solid Waste Management Plan for the City of Buford; and

WHEREAS, the City of Buford, Georgia has compiled with the Rules of Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management (Chapter 110-4-3) including public participation requirements;

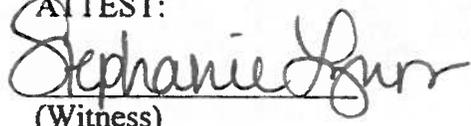
NOW, THEREFORE, BE IT RESOLVED by the City of Buford Commission that the document entitled "Solid Waste Management Plan for the City of Buford, Georgia, 2008-2019" be officially approved and adopted.

SO RESOLVED THIS 1st DAY OF April, 2010


Phillip Beard
Chairman
Buford City Commission


Kim Wolfe
City Clerk

ATTEST:


(Witness)

Resolution of the Board of Directors
of the City of New York

Whereas the City of New York is a member of the United Nations and is entitled to participate in the work of the United Nations and its organs;

And whereas the City of New York is entitled to participate in the work of the United Nations and its organs;

And whereas the City of New York is entitled to participate in the work of the United Nations and its organs;

And whereas the City of New York is entitled to participate in the work of the United Nations and its organs;

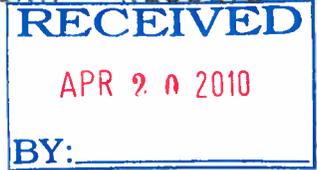
And whereas the City of New York is entitled to participate in the work of the United Nations and its organs;

Resolved, That the City of New York do hereby...



ATLANTA REGIONAL COMMISSION

PLANNING • LEADERSHIP • RESULTS



April 15, 2010

Mr. Joe Dunlop
Georgia Department of Community Affairs
60 Executive Park South, N.E.
Atlanta, GA 30329-2231

RE: City of Buford Solid Waste Management Plan

Dear Joe:

The City of Buford has adopted their 2008-2019 Solid Waste Management Plan. Enclosed are the final plan and the adoption resolution. Please let me know if you have any questions or comments.

Sincerely,

Jon Tuley
Senior Planner

Enclosures: 1



**Resolution to Adopt the Solid Waste Management Plan
for the City of Buford, Georgia**

WHEREAS, The Georgia Comprehensive Solid Waste Management Act requires county and municipal governments to prepare a local solid waste management plan and periodic update; and

WHEREAS, the City of Buford, Georgia has compiled, reviewed and modified an update to the Solid Waste Management Plan for the City of Buford; and

WHEREAS, the City of Buford, Georgia has compiled with the Rules of Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management (Chapter 110-4-3) including public participation requirements;

NOW, THEREFORE, BE IT RESOLVED by the City of Buford Commission that the document entitled "Solid Waste Management Plan for the City of Buford, Georgia, 2008-2019" be officially approved and adopted.

SO RESOLVED THIS 1st DAY OF April, 2010

Phillip Beard
Chairman
Buford City Commission

Kim Wolfe
City Clerk

ATTEST:

(Witness)

