

FIVE-YEAR UPDATE

For The

***JOINT SOLID WASTE MANAGEMENT PLAN
FOR MURRAY COUNTY AND THE CITIES OF
CHATSWORTH AND ETON***

Submitted Jointly By

Murray County and the Cities of Chatsworth and Eton

To the Georgia Department of Community Affairs

In Fulfillment of the Minimum Planning Standards and Procedures

[Revision August 23, 2010]

Final Adoption Version

October 5, 2010

FOREWARD

This Solid Waste Management Plan, Five-Year Update has been completed in compliance with the Minimum Planning Standards and Procedures promulgated by the Georgia Department of Community Affairs. The Five-year Update includes: A Report of Accomplishments for the years 2005-2010 (six years); a new Implementation Schedule in the form of a new Five-Year Short-Term Work Program for the years 2011-2015; a new waste generation table with new population projections; and an Assurance Letter that 10-years of disposal capacity remains for Murray County, Chatsworth, and Eton.

In compliance with creating public participation opportunities, this Solid Waste Plan was the subject of an initial public hearing on June 8, 2010, to explain the planning process. A second and final public hearing was held on July 28, 2010 which allowed the public the opportunity to review the draft plan documents as proposed and to make contributory comments on the drafts. At the conclusion of this last hearing, the local governments, jointly participating in this plan update, each adopted a Transmittal Resolution to initiate the State review process.

[Note: The paragraphs and table below are updated in August 2010 and are proposed to replace similar paragraphs and a Table 5 produced in the *Joint Solid Waste Management Plan for Murray County and the Cities of Chatsworth and Eton, 2005-2014.*]

1.2. Waste Stream Generation: Base Year

A waste study was conducted in Murray County in 1991 in conjunction with the preparation of the 1993 *Murray County Solid Waste Management Plan*. The study was conducted over a two-week time period by trained personnel. All waste entering the Murray County Landfill was weighed at the landfill scales and the composition of the waste was recorded through visual inspection of each load. The composition was estimated to be 28.3 percent residential waste, 7.4 percent commercial waste, and 64.3 percent industrial waste. (See Table 5 below.)

Using the data that was collected then, and using 2009 as the base year for population and employment, as well as the total tonnage for all wastes, estimates of annual waste generation for the County were derived. These are also illustrated in Table 5. The residential waste generation rate was calculated to be 0.428 tons of waste per capita per year (17,389 tons ÷ 40,621 persons). The commercial and industrial waste generation rates were 0.63 and 6.51 tons of waste per employee per year, respectively.

Table 5. Waste Generation Estimates

		Tons of Waste	Percent of Total Waste	Population and Employment (2009)	Annual Tons of Waste Per Capita	Annual Tons of Waste Per Employee	Pounds of Waste Per person Per Day
MSW	Residential	17,389	28.3%	40,621	0.428		
	Commercial	4,547	7.4%	7,217		0.630	
	Total MSW	21,936	35.7%		0.540		2.95
All Waste	Industrial	39,510	64.3%	6,069		6.51	
	Total All Waste	61,447	100.0%		1.512		8.28

Sources: NWGRC Population Projections (residential shows total population ; commercial and industrial show employment); a 1991 Waste Study for Murray County (regarding percentages of the waste stream); and the total waste tonnage (61,447 in 2009) is provided by Georgia EPD.

1.3. Waste Stream Generation: Projections

Table 6 below is new and one of the components desired by the Georgia Department of Community Affairs within the Five-Year Solid Waste Plan Update. The residential, commercial, and industrial waste generation rates provided in Table 5 on page 7 (last column) of the October 2005 Joint Solid Waste Management Plan are assumed to be the same and were applied to new projections of total population, total commercial employment, and total industrial employment (rows a, b, and g) to obtain figures for residential, commercial, and industrial waste (rows c, d, and h). The footnotes at the base of the table show the multipliers.

Compared to the Table 6 that was originally published in the Joint Solid Waste Management Plan in 2005, the population totals and projections are much more conservative below. In 2005, the economy was good and growth was reasonable and steady, however by late 2007 the economy began to slide downward with the housing and banking debacle so that full recession was realized through all of 2008 and into early 2009. Then 2009 began to tick upward in some markets, but business failures and high unemployment continued. Industrial layoffs were commonplace. The same business pattern prevails in 2010 and there are few hopes that much will change in 2011, thus the population projections below begin with lower numbers than those published in 2005 and growth is held at a slower rate to the end of the planning period, 2011-2020.

Table 6. Projected Waste Stream Generation Based Upon 2009 Generation Rates from Table 5 and Assuming No Reduction in Waste Generation*

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
a. Total Population** (persons)	40,621	40,686	40,957	41,228	41,769	42,310	42,851	43,392	43,933	44,474	45,015	45,556
b. Commercial Employment	7,217	7,723	8,230	8,736	9,243	9,749	10,256	10,762	11,269	11,775	12,182	12,788
c. Residential Waste (tons per year)	17,389	17,413	17,530	17,645	17,877	18,109	18,340	18,572	18,803	19,035	19,266	19,498
d. Commercial Waste (tons per year)	4,547	4,865	5,185	5,504	5,823	6,142	6,461	6,780	7,099	7,418	7,675	8,056
e. Total Tons of MSW Per Year	21,936	22,278	22,715	23,149	23,700	24,251	24,801	25,352	25,902	26,453	26,941	27,554

f. Pounds of MSW per Person per Day	2.95	3.00	3.03	3.07	3.10	3.14	3.17	3.20	3.23	3.26	3.28	3.31
g. Industrial Employment	6,069	5,614	5,842	6,069	6,297	6,524	6,752	6,979	7,207	7,434	7,662	7,889
h. Industrial Waste (tons per year)	39,510	36,547	38,031	39,509	40,993	42,471	43,956	45,433	46,918	48,395	49,880	51,357
i. Total Tons of Waste per Year***	61,447	58,825	60,746	62,658	64,693	66,722	68,757	70,785	72,820	74,848	76,821	78,911
j. Total Tons per Capita	1.51	1.45	1.48	1.52	1.55	1.58	1.60	1.63	1.65	1.68	1.71	1.73
k. Pounds per Person per Day	8.28	7.94	8.10	8.32	8.49	8.65	8.76	8.93	9.04	9.20	9.36	9.47

Calculations used in table above: $c = a * 0.428$ $h = g * 6.51$
 $d = b * 0.630$ $i = e + h$
 $e = c + d$ $j = i \div a$
 $f = e \div a * 2000 \div 365$ $k = j * 2000 \div 365$

* Includes MSW and industrial wastes only.

** Population projections are by the Northwest Georgia Regional Commission beginning with the 2009 population totals published by the U. S. Census. The recession of late 2007 through early 2009 is considered in terms of post-recessionary recovery in 2010 and 2011 (slower growth), then in 2012 the population projection is held constant to the end of the period. Commercial and industrial employment is derived from the Bureau of Economic Analysis, April 2010.

*** Total Tons of Waste Per Year in 2009 generated in Murray County according to the Georgia Environmental Protection Division. This tonnage is the base year and the basis for all future estimates. The multipliers created in Table 5 were based on the 2009 tonnage total and division of the waste stream similar to 1991 (28.3 % residential; 7.4% commercial; and 64.3% industrial).

[The below paragraph is proposed for inclusion under **Section 2.2 Assessment of Waste Reduction Programs and Facilities** in the original *Joint Solid Waste Management Plan for Murray County and the Cities of Chatsworth and Eton, 2005-2014*. The proposed paragraph provides an informational update regarding a potential opportunity at the present Westside Landfill Site and the paragraph is proposed to be added as the last paragraph appearing under the above referenced Section.]

2.2.1. Potential Waste-to-Energy Project

Murray County has entered into a letter of intent with stipulations with a private company that proposes to create a waste-to-energy facility, located on 12.5 acres of the Murray County Westside Landfill site. The letter of intent, executed in 2010, is for a one-year period to await available financing for the facility/concept, that if implemented, would propose to convert MSW into time released fertilizer and liquid fuels, thus expanding the future disposal capacity of the Westside Landfill site. If feasible, the facility/company would seek necessary State and local permits prior to actual implementation.

2010 REPORT OF ACCOMPLISHMENTS

For the *Joint Solid Waste Management Plan for Murray County and the Cities of Chatsworth and Eton, 2005-2014*

---- Proposed Implementation Schedule, 2005 – 2014

[Reporting for 2005 through 2010 (six years).]

ACTIVITY	YEAR PROPOSED	STATUS				Explanation if postponed or dropped
		Complete	Underway	Postponed	Dropped	
WASTE REDUCTION						
Continue current recycling programs at the landfill and expand recycling programs where feasible.	2005 to 2014		X			The Landfill site allows recycling; convenience centers hope to offer recycling in the future but budget constraints have delayed full implementation. The "Keep Chatsworth-Murray Beautiful" program operates a site six-days a week that is successful and includes "call-in" opportunities for recycling pick-ups.
Establish a group that will develop and conduct a public education program to promote recycling and coordinate anti-littering programs.	2006	X				The "Keep Chatsworth-Murray Beautiful" group, affiliated with Keep America Beautiful, is viable and operating.
Investigate recycling alternatives including "pay-as-you-throw" and diverting recyclable plastics.	2006		X			Similar to the first item above. Local budget limitations have restricted progress.
COLLECTION						
Provide additional convenience centers as the need arises.	2010			X		Postponed due to local budget constraints.
Investigate the feasibility of providing recycling facilities for household recyclables at all convenience centers.	2006			X		Postponed due to local budget constraints.
Pursue grant funding, when available, to provide additional recycling facilities or new composting/chipping programs.	2005-2014		X			Grant funds are in short supply.
DISPOSAL						
Maintain contract with Santek to manage the Murray County Westside Landfill and review contract periodically.	2005-2014		X			The current relationship with Murray County is considered workable and a long-term relationship is anticipated.
Purchase a tub grinder.	2006			X		Postponed due to local budget constraints.
LAND LIMITATIONS						

Ensure that entities which intend to locate solid waste handling facilities in the county follow the plan consistency guidelines outlined in Element 5.	2005-2014		X				Murray County and the cities intend to operate solid waste facilities in compliance with State law.
EDUCATION AND PUBLIC INVOLVEMENT							
Establish a group that will develop and conduct a public education program to promote recycling and coordinate anti-littering programs.	2006		X				The "Keep Chatsworth-Murray Beautiful" group has taken on this task.
Promote coordinated public education efforts through the County, Cities, and other groups. Education shall include, but not be limited to promoting recycling at home, the opportunity to obtain mulch at the public landfill, the practicality of reusing articles, the value of reduction habits, and cooperating with Whitfield County in the recycling of plastics.	2005-2014		X				The "Keep Chatsworth-Murray Beautiful" group has taken on this task.
Consider stiffer penalties for littering.	2006		X				Fines were increased for violations during the report period.
OTHER							
Adopt Solid Waste Management Plan	2005		X				The Plan was adopted in November 2005.

Implementation Schedule

The following strategies are intended to achieve the needs and goals.

Solid Waste Management Plan Implementation Schedule for Murray County and the Cities of Chatsworth and Eton

Project or Activity	2011	2012	2013	2014	2015	Responsible Party	Cost Estimate	Funding Source
1--WASTE REDUCTION								
1A Continue current recycling programs at the landfill and expand recycling programs where feasible (convenience centers).	x	x	x	x	x	Murray County	Variable	General Fund (Minimal)
1B Continue to investigate recycling alternatives including "pay-as-you-throw," diverting plastics and other materials.	x	x	x	x	x	Murray County	Staff Time	General Fund (Minimal)
1C Encourage the establishment of a waste-to-energy program that will make use of municipal solid waste and convert to fertilizer and liquid fuels.	x					Murray County; Private Sector	-----	Private Funds
2--COLLECTION								
2A Provide additional convenience center locations as the need arises.			x	x		Murray County	\$130,000 each	General Fund
2B Investigate the feasibility of providing recycling facilities for household recyclables at all convenience centers.			x			Murray County	Variable	General Fund
3B Pursue grant funding to provide additional recycling facilities or composting/chipping programs.		x	x	x	x	Murray County	Variable	General Fund; State Grants
3--DISPOSAL								
3A Maintain a renewable contract with Santek, or equivalent private sector entity, to manage the Murray County Westside Landfill.	x	x	x	x	x	Murray County; Private Sector	Variable	General Fund
3B Purchase a tub grinder.			x			Murray County	\$140,000	General Fund

Project or Activity	2011	2012	2013	2014	2015	Responsible Party	Cost Estimate	Funding Source
4--LAND LIMITATION								
4A. Ensure that entities which intend to locate solid waste handling facilities in the county follow the plan consistency guidelines outlined in Element 5.	x	x	x	x	x	Murray County	Staff Time	-----
5--EDUCATION AND PUBLIC INVOLVEMENT								
5A. Promote coordinated public education efforts through the county, cities, and other groups. Education shall include, but not be limited to promoting recycling at home, the opportunity to obtain mulch at the public landfill, the practicality of reusing articles, and cooperating with Whitfield County in the recycling of plastics.	x	x	x	x	x	Murray County, Chatsworth, Eton; Keep Chatsworth-Murray Beautiful	Staff time	General Fund; grants
6--OTHER								



650 25th Street, N.W., Suite 100
Cleveland, Tennessee 37311
(423)476-9160
Toll Free: 1-800-467-9160
Fax: (423)479-1952

August 31, 2010

David Ridley,
Sole Commissioner, Murray County
P. O. Box 1129
Chatsworth, GA 30705

Dear Mr. Ridley:

This letter serves as a disposal capacity assurance for waste generated by Murray County governments from 2010-2020. The Georgia EPD permit number for the Santek-managed solid waste landfill in Murray County, Georgia is 105-014D. This assurance is based upon Murray County governments disposing of approximately 78,920 tons of waste at this facility on an annual basis.

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

Sincerely,

Cheryl L. Dunson
Vice-President of Marketing

(423) 303-7107 – Office
(423) 303-7150 - Fax

*Landfill Solutions Under
Local Government's Authority.*

Printed on recycled paper.



COMMISSIONER OF MURRAY COUNTY

P.O. BOX 1129/121 NORTH 4TH AVE., CHATSWORTH, GA 30705
TELEPHONE 706-517-1400 FAX 706-517-5193

**RESOLUTION
TO ADOPT THE
FIVE-YEAR UPDATE
FOR THE
JOINT SOLID WASTE MANAGEMENT PLAN
FOR
MURRAY COUNTY AND THE CITIES OF CHATSWORTH AND ETON**

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

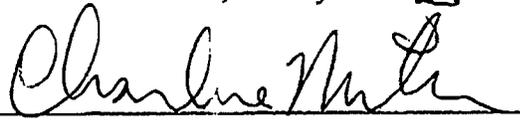
Whereas, Murray County, Georgia has compiled, reviewed, and modified a Five-Year Update to the *Joint Solid Waste Management Plan for Murray County and the Cities of Chatsworth and Eton*; and

Whereas, Murray County has complied with the Rules of the 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 Murray County Sole Commissioner that the document entitled *Five-Year Solid Waste Update For the Joint Solid Waste Management Plan for Murray County and the Cities of Chatsworth and Eton* be officially approved and adopted.

SO RESOLVED THIS 5th Day of October, 2010.

BY: 
Sole Commissioner, Murray County

ATTEST: 
County Clerk, Murray County



**RESOLUTION
TO ADOPT THE**

**FIVE-YEAR UPDATE
FOR THE
JOINT SOLID WASTE MANAGEMENT PLAN
FOR
*MURRAY COUNTY AND THE CITIES OF CHATSWORTH AND ETON***

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 Eton, Georgia has compiled, reviewed, and modified a Five-Year Update to the *Joint Solid Waste Management Plan for Murray County and the Cities of Chatsworth and Eton*; and

Whereas, the City of Eton has complied with the Rules of the 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 Mayor and Council of the City of Eton that the document entitled *Five-Year Update For the Joint Solid Waste Management Plan of Murray County and the Cities of Chatsworth and Eton* be officially approved and adopted.

SO RESOLVED THIS 5th Day of October, 2010.

BY:

Billy Cantrell, Mayor

ATTEST:

Kim Hall, City Clerk

**RESOLUTION
TO ADOPT THE

FIVE-YEAR UPDATE
FOR THE
JOINT SOLID WASTE MANAGEMENT PLAN
FOR
MURRAY COUNTY AND THE CITIES OF CHATSWORTH AND ETON**

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

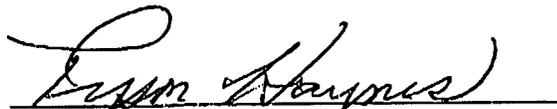
Whereas, the City of Chatsworth, Georgia has compiled, reviewed, and modified a Five-Year Update to the *Joint Solid Waste Management Plan for Murray County and the Cities of Chatsworth and Eton*; and

Whereas, the City of Chatsworth has complied with the Rules of the 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 Mayor and Council of the City of Chatsworth that the document entitled *Five-Year Update For the Joint Solid Waste Management Plan of Murray County and the Cities of Chatsworth and Eton* be officially approved and adopted.

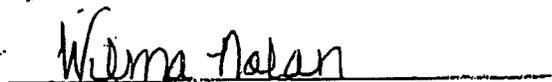
SO RESOLVED THIS 4th DAY OF OCTOBER, 2010 AT A REGULAR MEETING OF THE MAYOR AND COUNCIL, AND EFFECTIVE ON OCTOBER 5TH, 2010.

BY:



Tyson Haynes, Mayor

ATTEST:



Wilma Nolan, City Clerk

A RESOLUTION TO TRANSMIT

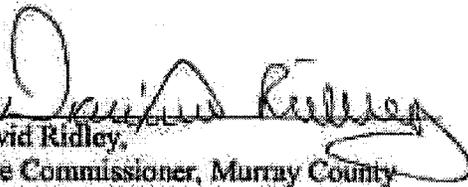
WHEREAS, The Georgia Comprehensive Solid Waste Management Act requires county and municipal governments to prepare a local solid waste management plan and periodic updates; and

WHEREAS, Murray County, Georgia has completed a Five-Year Update to the *Joint Solid Waste Management Plan for Murray County and the Cities of Chatsworth and Eton, 2005-2014*; and

WHEREAS, Murray County, Georgia has complied with the Rules of the Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management for public participation, including the initial public meeting held June 8, 2010 and the final public meeting held July 28, 2010;

NOW, THEREFORE, BE IT RESOLVED by the Murray County Sole Commissioner that the Report of Accomplishments, 2005-2010; the Implementation Schedule (Short Term Work Program) Update, 2011-2015; and the capacity assurance letter may be sent to the Northwest Georgia Regional Commission and the Department of Community Affairs for review and approval.

SO RESOLVED THIS 3rd DAY OF AUGUST, 2010.


David Ridley,
Sole Commissioner, Murray County

ATTEST:


~~County Clerk~~
Tenny Parker
Interim County Clerk

A RESOLUTION TO TRANSMIT

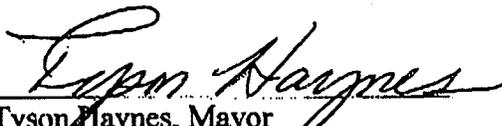
WHEREAS, The Georgia Comprehensive Solid Waste Management Act requires county and municipal governments to prepare a local solid waste management plan and periodic updates; and

WHEREAS, Chatsworth, Georgia has completed a Five-Year Update to the *Joint Solid Waste Management Plan for Murray County and the Cities of Chatsworth and Eton, 2005-2014*; and

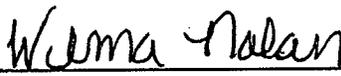
WHEREAS, Chatsworth, Georgia has complied with the Rules of the Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management for public participation, including the initial joint public meeting held June 8, 2010 and the final joint public meeting held July 28, 2010;

NOW, THEREFORE, BE IT RESOLVED by the Chatsworth Mayor and Council that the Report of Accomplishments, 2005-2010; the Implementation Schedule (Short Term Work Program) Update, 2011-2015; and the capacity assurance letter may be sent to the Northwest Georgia Regional Commission and the Department of Community Affairs for review and approval.

SO RESOLVED THIS 2nd DAY OF AUGUST, 2010.


Tyson Haynes, Mayor
City of Chatsworth

ATTEST:


Wilma Nolan, City Clerk

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 and periodic updates; and

WHEREAS, Eton, Georgia has completed a Five-Year Update to the *Joint Solid Waste Management Plan for Murray County and the Cities of Chatsworth and Eton, 2005-2014*; and

WHEREAS, Eton, Georgia has complied with the Rules of the Georgia Department of Community Affairs Minimum Planning Standards and Procedures for Solid Waste Management for public participation, including the initial joint public meeting held June 8, 2010 and the final joint public meeting held July 28, 2010;

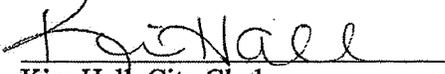
NOW, THEREFORE, BE IT RESOLVED by the Eton Mayor and Council that the Report of Accomplishments, 2005-2010; the Implementation Schedule (Short Term Work Program) Update, 2011-2015; and the capacity assurance letter may be sent to the Northwest Georgia Regional Commission and the Department of Community Affairs for review and approval.

SO RESOLVED THIS 3rd DAY OF AUGUST, 2010.



Billy Cantrell, Mayor
City of Eton

ATTEST:


Kim Hall, City Clerk