

ATTACHMENT 5

“CITY OF JACKSON SOLID WASTE MANAGEMENT PLAN
ADOPTED JUNE 2, 2009” EXCERPTS

DEMONSTRATION OF NEED SUPPLEMENT
MUNICIPAL SOLID WASTE PERMIT APPLICATION REPORT
NORTH COUNTY LINE LANDFILL

Department of Public Works
An APWA Accredited Agency



200 South President Street
Post Office Box 17
Jackson, Mississippi 39205-0017

Frank E. Melton
Mayor of the City of Jackson

January 16, 2009

Madison County Board of Supervisors
c/o Arthur Johnston, Chancery Clerk
Post Office Box 608
Canton, MS 39046

Mr. Johnston:

The City of Jackson has completed a Nonhazardous Solid Waste Management Plan. It is now on file and available for public inspection in the Office of the City Clerk, City Hall, 219 South President Street, Jackson, Mississippi 39201. Comments about the Plan will be accepted until Monday, February 16, 2009, at 5:00 p.m., in the City Clerk's Office. If you have any questions, please feel free to contact Vernon Hartley, Solid Waste Manager at 601.566.9797.

Sincerely,

A handwritten signature in black ink, appearing to read "Thelman Boyd".

Thelman Boyd
Public Works Director

Cc: Frank E. Melton, Mayor
Gail Green, Interim City Clerk

The City of Jackson

Solid Waste Management Plan

Adopted June 2, 2009



Leslie B. McLemore, Acting Mayor

Jackson City Council

Jeff Weill
Ward 1

Kenneth I. Stokes
Ward 3

Charles Tillman
Ward 5



Leslie B. McLemore
Ward 2

Frank Bluntson
Ward 4

Marshand K. Crisler
Ward 6

Department of Public Works
An APWA Accredited Agency



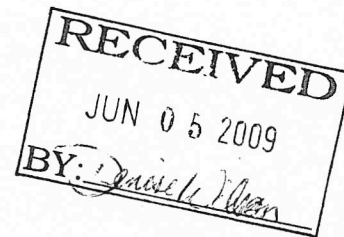
200 South President Street
Post Office Box 17
Jackson, Mississippi 39205-0017

Frank E. Melton
Mayor of the City of Jackson

June 5, 2009

Mr. Mark Thomas
Mississippi Department of Environmental Quality
P.O. Box 2261
Jackson MS 39201

Re: Proposed Solid Waste Management Plan



Dear Mr. Thomas:

Attached for your review and comment is the proposed City of Jackson's Solid Waste Management Plan, adopted June 2, 2009, by the City Council. After development, the plan was subject to a public review and comment process and reviewed by local County officials (see Tab 7).

This document is now submitted for official comment from Mississippi Department of Environmental Quality (MDEQ) and approval by MDEQ's Commission. If you have any questions or concerns, do not hesitate to contact me at (601) 960.1193.

Sincerely,

A handwritten signature in cursive script that reads "Vernon W. Hartley".
Vernon W. Hartley, Manager
Solid Waste Division

Cc: Thelman Boyd

Attached: Proposed Solid Waste Management Plan

ORDER ADOPTING THE SOLID WASTE MANAGEMENT PLAN FOR THE CITY OF JACKSON, MISSISSIPPI

WHEREAS, the City of Jackson Department of Public Works, Solid Waste Division has developed a Solid Waste Management Plan in accordance with relevant Federal and Mississippi Department of Environmental Quality (MDEQ) guidelines; and

WHEREAS, the purpose of a solid waste management plan is to put forth an environmentally sensitive, cost effective program which allows City leaders to make cost effective changes in the management of solid waste issues within the City of Jackson; and

WHEREAS, the program is designed to protect the public health, safety and well-being of the citizens and to protect and enhance the quality of the environment in the City of Jackson; and

WHEREAS, the plan will allow non-hazardous solid waste management facilities that will meet the needs of the area, to be planned, developed and constructed in a timely manner; and

WHEREAS, the plan will present a methodology for achieving the state's goal of reducing and minimizing the waste stream by a minimum of 25%; and

WHEREAS, the plan will specifically address (1) Evaluation of the existing waste stream for the City; (2) projections of future populations and waste generation rates; (3) review of existing solid waste management facilities and services in the area; (4) development of recommendations for solid waste management and waste disposal alternatives; and (5) development of a proposed implementation strategy; and

WHEREAS, the Solid Waste Division recommends that the City Council of the City of Jackson, Mississippi adopt a solid waste management plan, with said solid waste management plan being subject to the approval of the Environmental Protection Agency and / or the Mississippi Department of Environmental Quality.

IT IS THEREFORE ORDERED by the City Council of the City of Jackson, Mississippi, that the solid waste management plan developed by the Solid Waste Division for the City of Jackson, Mississippi, is hereby adopted, with said solid waste management plan being subject to the approval of the Environmental Protection Administration and / or the Mississippi Department of Environmental Quality.

APPROVED FOR AGENDA:

Division Manager

Director

Finance

EBO

Legal

CAO

Mayor's Office

INITIALS

DATE 5/4/09

30 APR 2009

5/1/09

5/4/09

5/4/09

5.8.09

5/18/09

5/19/09

Item No. 25

Agenda Date 6/2/09

By: (Hartley, Boyd, Melton)

Jillman
Crisler 6/6

Yeas - Blanton, M.B.S., McLeone, Jillman
Crisler, Weil
Abstent: Stekes

Chapter 3: Primary Solid Waste Program Components

The following is a description of each component of the City of Jackson's solid waste management system. Efficient, sanitary, and customer-responsive collection of solid wastes is at the heart of a well-run waste management system. The City of Jackson Solid Waste Division Mission Statement is:

To implement and manage an integrated solid waste management system including the collection of household garbage and trash, recycling, solid waste disposal, and the execution of programs and projects that enhance neighborhood cleanliness and community environmental responsibility.

A. Residential Garbage Management Programs

The City of Jackson provides garbage and recycling collection for residential units through the use of a contracted hauler. The City of Jackson has a contract that ends September 30, 2009, with Waste Management of Mississippi (Appendix F). The City has the option to extend its contract with Waste Management or to solicit bids and proposals to award a new collection contract to Waste Management or another company. The contract agreement is for the collection and hauling of solid waste from all residential units located within the corporate limits of the City. The agreement is also for recycling services provided to all residential units within the corporate limits of the City. Residential units are homes, trailers, or dwelling units in a multifamily dwelling of four (4) units or less, not including hotels or motels. Collections from private commercial establishments are not included in the scope of services in this contract. However, collection services for fire stations, police precincts, police headquarters, and other selected municipal buildings and facilities are included.

The contractor collects garbage from residential units twice weekly on a schedule. Collection of garbage and trash is not required on New Years Day, the Fourth of July, Thanksgiving Day, and Christmas Day. Collection and disposal of solid waste on Sundays is not allowed unless otherwise approved by the City of Jackson Director of Public Works.

Waste Management of Mississippi will curbside collect household solid waste twice a week, recyclables once every other week, up to two bulky items once per week, up to two cubic yards of uncontainerized yard debris once per week, and vacuum loose leaves as scheduled with Director of Public Works. Waste Management of Mississippi will also provide monthly roll-off services to each of the seven wards of the City.

The collection and hauling contract requires that all solid waste and refuse collected under the contract be disposed of at a state approved sanitary landfill. The City reserves the right in the contract to direct the solid waste to a specific sanitary landfill. The City, under a landfill contract with Browning-Ferris Industries (BFI), directs its solid waste to the BFI Little Dixie Landfill in Madison County. The Little Dixie Landfill is located at 1716 North County Line Road, Ridgeland, MS 39157, and its permit (SW04501A0238) ends 9/30/2013.

The City of Jackson has a contract with BFI (Appendix G) for the disposal of residential and commercial solid waste collected from residential units and municipal commercial units by Waste Management of Mississippi. The contract expires on October 25, 2014.

According to the Status Report on Solid Waste Management Facilities for Calendar Year 2007 prepared by the Mississippi Department of Environmental Quality (MDEQ), the BFI Little Dixie Landfill has an estimated life remaining of 16 years. Because the estimated life remaining of the Little Dixie Landfill is less than 20 years, there is a need for an alternate future disposal location. This need might be met should Little Dixie Landfill have the capability and choose to expand.

B. Rubbish Management Systems and Programs

General Rubbish

The State of Mississippi's Department of Environmental Quality has approved two categories of Rubbish landfills: Class I and Class II. A Class I rubbish site may accept all types of rubbish waste, and a Class II rubbish site may accept only certain types of rubbish waste which are non-polluting and generally inert.

The City of Jackson owns and operates a Class I Rubbish Facility at 6810 Interstate 55 south, Jackson, MS 39212. This site is known as the Jackson Rubbish Site (Byram) with permit number SW0250020471 (expires 5/31/2014). According to the Status Report on Solid Waste Management Facilities for Calendar Year 2007 prepared by MDEQ, the City of Jackson Rubbish Site in Byram has an estimated life remaining of 1 year. The Byram facility is a Class I Rubbish Facility. Last year this site received 18,586 tons of waste. With only 1 year of estimated life remaining the City should assess whether it is feasible to expand the Byram facility.

There are three Class II Rubbish Sites located in Jackson. The APAC Meter Rd. Rubbish Site owned by APAC Mississippi, Inc. has an estimated life remaining of 1 year. This rubbish site is private with a permit (R2038) good through 12/31/2016. The City has an approved Class-II Rubbish Facility at the abandoned Brookleigh Lagoon which is located in the northeast quarter, section 12, township 4 north, range 1 west. The total property consists of 12.56 acres; the actual disposal area consists of 3.71 acres. The rubbish facility at the lagoon is inactive and has an estimated remaining life of 2 years. The Tri-State Brick Rubbish Site is an industrial/institutional rubbish site owned by Tri-State Brick & Tile Co. The Tri-State rubbish site is located at 2050 Forest Avenue, Jackson, MS 39213. It has an estimated remaining life of 24 years. This is a private site with a permit (R2075) good through 12/31/2016.

Yard Waste Management Programs

Approximately 23,703 tons of residential yard waste, 18.9% of the overall waste stream, was generated in the City of Jackson in 2002 according to the Waste Characterization Study (Appendix H). Approximately 11,000 tons of yard waste was collected by WMI vacuum trucks and disposed of at a compost pile at the Jackson Rubbish Site (Byram). The remaining

Chapter 4: Solid Waste Needs Assessment Summary

Changes in collection methods or contracts can have a big impact on total costs. Changes being considered by the City of Jackson include eliminating or extending to six months the leaf collection program and replacing the bi-weekly recycling collection with weekly collection.

The projected quantities of municipal solid waste anticipated to be generated annually over the next 20 years can be found in Chapter 2 B. Chapter 2 B also lists the anticipated composition of the projected waste. According to the information found in Chapter 3 A, the current disposal facility does not have the capacity to handle the projected volume of municipal solid waste for the next 20 years. According to the information found in Chapter 3 B, the current rubbish management disposal facility does not have the capacity to handle the projected volume of rubbish waste for the next 20 years.

The City does have a need for additional solid waste disposal capacity. See Chapter 3 A and G for more information. Alternatives to address this need include determining whether the Little Dixie Landfill can and will expand capacity, locate an alternate landfill for disposal and assess whether or not it is feasible to reopen the City of Jackson Landfill. The City of Jackson Landfill has not been reopened previously primarily due to the amount of waste it must receive per year to be self-sufficient. At the time of the last assessment, the landfill would need to receive half of the necessary waste from sources other than the City of Jackson. Most of the nearby municipalities were already under long term contracts with other landfills.

The City does have a need for additional rubbish disposal capacity. See Chapter 3 B and G for more information. Alternatives to address this need include: expanding the Byram rubbish site. Currently, plans are to develop cells as needed on the northeast portion of the site. If there is a nearby rubbish facility that could be used for more economical disposal in the near future, a cost analysis should be done to determine which of the two options is the most fiscally reasonable.

The City does not have a need for additional wastewater sludge/bio-solids services or disposal facilities at this time. See Chapter 3 C for more information.

The City does not have a need for additional special waste management services or disposal facilities. See Chapter 3 D for more information. The City has programs that are sufficiently dealing with the special wastes generated in Jackson.

The City does not have a need for additional disaster debris management services or disposal facilities at this time. See Chapter 3 E for more information. The City has recently dealt with a major disaster that has resulted in debris management. The City has reacted by drafting a Debris Management Plan.

The City does not have an immediate need for additional recycling or waste reduction management services. See Chapter 3 F for more information. In a continuing effort to

improve the reduction of waste destined for landfills, the City will analyze the implementation of the following changes to the current programs: the feasibility of pallet recycling, junk car disposal and glass recycling. Pallet recycling has been requested by one of the local businesses. Junk car disposal may include the City offering free removal or drop off of junk cars. The City could then have a car crusher come to the site once or twice a year. The money the City receives from the crushers for the cars would be used to offset the cost of the program. Glass recycling was offered in the past and could help the City meet their 25% waste minimization goal. The City will also be evaluating the benefits of contracting with Waste Management to collect recyclables once a week rather than every other week.

The City does not have a need for additional illegal dumping prevention and abatement programs. See Chapter 3 H for more information.

B. Financing Options

Funding for the City of Jackson's solid waste management system comes from the following sources:

- Landfill/Sanitation Fund – the City's Public Works department has set up an account which will fund all aspects of the landfill operations. In 2008, the City allocated \$2,075,166 to the fund.
- Sanitation Fees - homeowners are charged eleven dollars per month on the water/sewer utilities bill for sanitation services. People who are at least sixty-five years old or are disabled and earn less than \$15,000 per year are exempt from paying the sanitation fee.
- Recycling Revenue - the City receives revenue from the sale of recyclable materials. This includes materials collected in the recycling program and other materials such as refrigerators. Under the recycling contract with BFI, the City will share the revenue generated through the curbside program.
- Grants - the City has received grant funding for the Waste Tire Program and for the Household Hazardous Waste Collection Day.
- Waste Delivery Fee - the City receives a waste delivery fee (or host fee) as a part of its disposal contract with Browning Ferris Industries. Although this revenue is placed in the City's general fund, it is available if necessary to supplement solid waste services expenses such as emergency cleanups after storms.
- Private Investments – the City will continuously look for collaborative opportunity and private investment in "Going Green" recycling initiatives.

Chapter 6: Proposed Implementation Schedule Summary

The purpose of this section is to summarize the proposed implementation schedule for each new, expanded, renewed or alternate system component previously identified in Chapter 4 of the plan. The summary will describe a schedule or expected timeline for meeting the specific solid waste management needs of the local planning jurisdiction.

Additional Solid Waste Disposal Capacity Needs:

In order to address the need for additional solid waste disposal capacity, the City plans to study two to three alternates. First, the City will determine whether the BFI-Little Dixie Landfill operations team can and will expand the capacity of their landfill. Over the next five (5) years, the City plans to collaborate with management personnel of the Little Dixie Landfill to remain informed and to evaluate future development plans of their facility. Prior to renewing the solid waste disposal contract which expires in October of 2014, the City will determine the feasibility of renewing the contract for continual disposal services at the BFI-Little Dixie Landfill in order to meet the projected needs of the City.

Second, if continuing solid waste disposal services with BFI is deemed not feasible, the City will begin to locate an alternate landfill for disposal and assess whether or not it is feasible to reopen the City of Jackson Landfill. Moreover, as funding permits, the City will consider landfill remediation projects for solid waste disposal near McDowell Road and Festival Park. The City is considering new construction of a Green Recycling & Processing Project and an Environmental Recycling and Green Distribution Center to help minimize the amount of reusable waste delivered to the landfill. The City may seek federal funding of the proposed new construction projects. See Table 6-1 for proposed timetable for implementation.

Proposed Implementation Schedule:

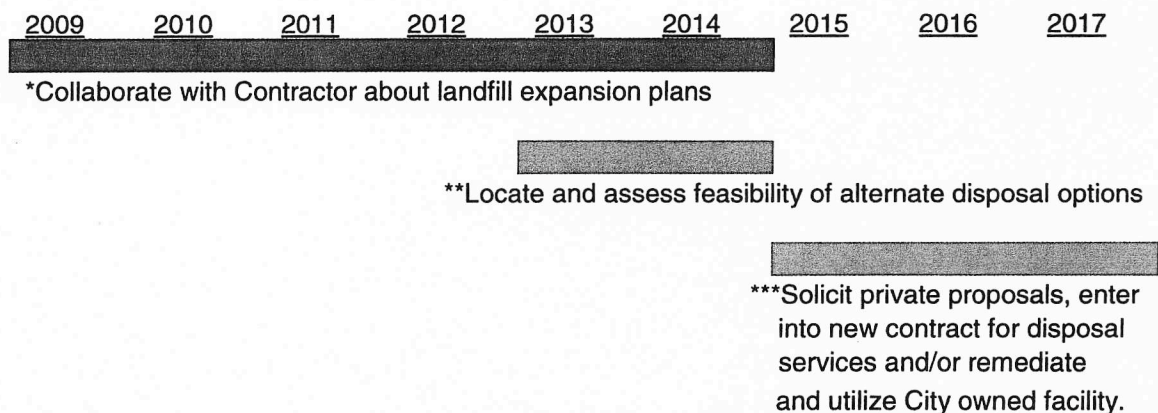


Table 6-1: Proposed Implementation Schedule for Solid Waste Disposal Needs

The City plans to track progress with implementation schedule through annual meetings and reviews with public works officials, existing contractors and other relevant parties. Comments and suggestions that will help keep the City meet its disposal capacity needs and goals will be discussed at these meetings.

Additional Rubbish Disposal Capacity Needs:

In order to address the need for additional rubbish disposal capacity, the City plans to study two alternates—expand the Byram site or locate a nearby rubbish site to use. First, the City will evaluate the possibility of expanding the Byram rubbish site. The current facility has less than 1 year of useful life.

Furthermore, the City decided in 2006 to expand the Byram rubbish site. A new rubbish disposal cell was designed, permitted and constructed in 2007 at the northwest area of the existing Byram facility site. As of December 2008, the new cell has not been utilized due to construction modification issues. The City is currently planning rehabilitation of the cell so that it can be properly utilized in the immediate to near future.

Feasibility

The feasibility of implementing the residential garbage management and the rubbish management plans depends on two primary issues: 1) the cost required to implement the collection service and 2) the cost savings of reducing collection from twice per week to weekly.