

City of Hattiesburg, MS

*200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401*



Meeting Agenda

Monday, September 10, 2012

6:00 PM

**Public meeting to solicit public comment on selection of a
wastewater treatment system for the City of Hattiesburg.**

Hattiesburg Train Depot

City Council

1. Hold a public meeting to solicit public comment on selection of a wastewater treatment system for the City of Hattiesburg.

2012-1121

Wastewater Options Mailer, City of Hattiesburg

Attachments:

Wastewater Options - City of Hattiesburg



City of Hattiesburg, MS

200 Forrest St.
P.O. Box 1898
Hattiesburg, MS 39401

Master

File Number: 2012-1121

File ID: 2012-1121

Type: Regular Agenda Item

Status: Agenda Ready

Version: 1

Reference:

In Control: City Council

File Created: 09/05/2012

Brief Title: Wastewater Options Mailer, City of Hattiesburg

Final Action:

Minute Book Number: MB 2012-1/309-310

Title:

Wastewater Options Mailer, City of Hattiesburg

Notes:

Sponsors:

Enactment Date:

Attachments: Wastewater Options - City of Hattiesburg

Enactment Number:

Contact:

Meeting Date: 09/10/2012

Drafter: Debbie Bernardo

Effective Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	City Council	09/10/2012					

Text of Legislative File 2012-1121

Title

Wastewater Options Mailer, City of Hattiesburg

Summary

Wastewater Options Mailer, City of Hattiesburg

Budget Information

Expenditure Type

Purchasing Item

Publication Information

YOUR INPUT NEEDED

City leaders are asking that citizens actively participate in selecting a plan for wastewater treatment. It is critical that citizens consider each option, weigh the advantages and disadvantages, and then provide input.

City officials will hold three
Public Involvement Sessions.

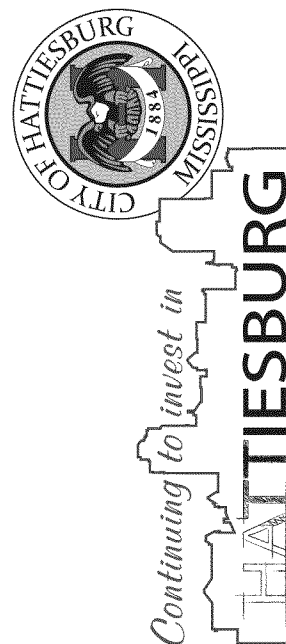
Monday, June 11th at 6 p.m.
Oseola McCarty Youth Development Center
located at 607 McSwain Street

Thursday, June 14th at 6 p.m.
At Danny Hinton Community Center
located at 225 Tatum Road

Tuesday, June 19th at 6 p.m.
At Parkway Heights United Methodist Church
located at 2420 Hardy Street

These meetings will use an informal, come-and-go format. Project stations will be set up for individuals to speak one-on-one with experts who can answer questions and provide specific project details. Fact sheets on each of the proposed solutions, along with comment cards, will be available.

For additional information on these and other projects, please visit
www.hattiesburgms.com to learn more.



Continuing to invest in
HATTIESBURG



A Message from the City of Hattiesburg

The City of Hattiesburg’s current Waste Water Treatment System was designed and constructed in the 1960s. The present permitted flow of the system is 24 million gallons per day and comes from the sanitary sewerage disposal of commercial, industrial, and residential customers.

The City utilizes a 460-acre system of aerated lagoons (North and South Lagoons). Both lagoons have experienced problems meeting permit and nutrient limits. This means future upgrades will be required by regulatory agencies for each to become compliant. It is the intent of the City to involve the public in the search for long-term solutions to these treatment issues.

The current wastewater treatment process has served the City well and kept the water and sewer rates low for many years. However, the current issues associated with the lagoons have prompted the City of Hattiesburg to look at alternative solutions for improving its wastewater treatment capabilities.

In order to address these issues, three treatment alternatives have been outlined,

- A mechanical treatment facility
- A mechanical polishing facility
- A land application facility

Each of these proposed alternatives would keep the city in compliance with current nutrient limits. However, each of them has varying benefits and cost. Which long-term solution city officials select will be based on sound engineering judgement, financial impact on the city and the opinion of Hattiesburg residents.

This is an investment in the city’s future and one that will affect everyone who enjoys the convenience of sewer service to their homes and businesses.



One option being considered is a mechanical treatment facility.

A mechanical treatment facility would treat the wastewater stream and replace existing lagoons, while providing the capability for future upgrades to the system as needed. This new, state-of-the-art facility would use a series of treatment processes including aeration, clarification, filtration and disinfection.

The cost of the facility would be driven by permit requirements, construction, and design, as well as the specific technology used for treatment. Careful consideration will need to be taken in designing the facility to promote the most cost-effective solution.

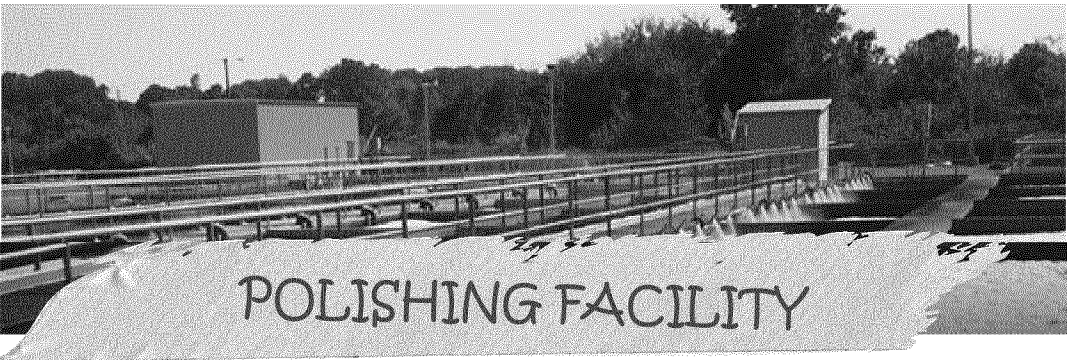
The new facility would give the City more flexibility to treat specific waste streams and more flexibility to meet future regulations.

Advantages

- Closes existing lagoons
- Reduces odor
- Provides more effective, complete treatment
- Meets existing discharge permit limits
- Provides greater flexibility for future permitting requirements
- Requires less land

Disadvantages

- Impacts rates the most
- Continues to discharge into Leaf River
- Higher operations and maintenance cost
- Higher up-front construction and design cost



The second option is retrofitting the existing lagoon system with an additional treatment process capable of meeting permit requirements.

A polishing facility would be added at the end of the wastewater treatment process in order to remove ammonia nitrogen. This mechanical treatment would be the last step before the wastewater is disinfected and discharged into the Leaf River. The existing lagoons would still function as usual to provide initial treatment.

Advantages

- Less impacts to rates
- Meets current permit requirements
- Shortened construction and design time line

Disadvantages

- No reduction in lagoon size or odors
- Continues to discharge into the Leaf River
- Requires costly upgrades to meet future limits
- Requires additional maintenance such as dredging and aeration



The third option, land application, is the process of taking treated wastewater and applying it to an area of land through irrigation.

Wastewater is pumped to a specific land area after first being treated to limits defined by regulatory agencies. This initial treatment could be accomplished by using a small portion of the existing lagoons.

The next phase of treatment naturally removes nitrogen and phosphorus by filtering wastewater through layers of soil and vegetation. The wastewater nutrients are used by plants as food. This natural fertilization process could be used for timber, grass, corn used in ethanol or for livestock, and a variety of other crops not for human consumption.

This is a truly green alternative that reduces impacts on the Leaf River and repurposes waste for the development of a healthy, natural environment.

Advantages

- Less impacts to rates
- Eliminates discharge into the Leaf River
- Meets current and future permit limits
- Reduces lagoon size and odors
- Provides a green alternative

Disadvantages

- Requires large amounts of land
- Requires soil capable of absorbing wastewater flow
- Less flexibility for future expansion
- Less flexibility for changing permit requirements
- Lacks predictability