



**DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES**

Memphis Environmental Field Office

8383 Wolf Lake Drive
Bartlett, TN 38133

Phone 901-371-3000 Statewide 1-888-891-8332 Fax 901-371-3170

October 14, 2022

Mr. Richard Mills
Public Works Director
City of Piperton
3725 Hwy 196, Suite B
Piperton, TN 38017

Re: Compliance Evaluation Inspection
 Madeline Farms (LaGrange Point) State Operating Permit: SOP-07038
 Piperton, Fayette County, Tennessee

Dear Mr. Mills,

On October 11, 2022, a Compliance Evaluation Inspection was conducted of the wastewater treatment facility that serves the Madeline Farms Subdivision (previously known as LaGrange Point). The purpose of the inspection was to determine compliance with the State Operating Permit. The Division of Water Resources greatly appreciates your, Mr. Anthony Harville, and Mr. Anthony Harbin's assistance and knowledge about the facility which enabled the inspection to be conducted in an efficient manner. A copy of the Compliance Evaluation Inspection report and associated photo document is enclosed for your reference.

The Division appreciates your efforts to manage your operations to minimize impacts to the Waters of Tennessee. If you have any questions, please contact me at (901)-426-6691 or Ginna.McWhirter@tn.gov.

Sincerely,

Ginna McWhirter
Environmental Scientist
Division of Water Resources
Memphis Environmental Field Office

Enclosure: CEI Report and Photographs

Ec: TDEC/DWR/MEFO – file
 Anthony Harville - aharville@pipertontn.com
 Anthony Harbin - aharbin@pipertontn.com

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Resources

Memphis Environmental Field Office, 8383 Wolf Lake Drive, Bartlett, TN 38133

1-888-891-8332 (TDEC)

Compliance Inspection for State Operating Permits

Facility Name: Madeline Farms Subdivision	Tracking Number: SOP-07038
Permit Effective Date: September 01, 2022	Permit Expiration Date: August 31, 2027
Date of Inspection: October 11, 2022 Time of Inspection: 9-10:30	Inspectors: Ginna McWhirter, Courtney Driver
Official Contact Person: Richard Mills, Piperton Public Works Director	
Address: 3570 Hwy 196 Piperton, TN 38017	Phone Number: (901) 221-7806
	Email: rmills@pipertontn.com

Summary of Findings and Comments:

I. Permit

On Tuesday, October 11, 2022, Ginna McWhirter and Courtney Driver with the Division of Water Resources conducted a Compliance Evaluation Inspection (CEI) at the Madeline Farms Subdivision (previously known as LaGrange Pointe) wastewater treatment facility located in Piperton, Tennessee. The facility is sized to serve 206 lots in the Madeline Farms Subdivision.

The State Operating Permit (SOP) for the Madeline Farms Subdivision wastewater treatment facility with tracking number SOP-07038 expires on August 31, 2027. The permit allows the operation of septic tanks, effluent collection system, bio clere recirculating media filter, and drip irrigation. This permit allows the operation of a wastewater collection, treatment, and storage system with disposal of treated wastewater through approved land application areas. As stated in the permit, there shall be no discharge of wastewater to any surface waters or to any location where it is likely to enter surface waters. In addition, the drip irrigation system shall be operated in a manner preventing the creation of a health hazard or a nuisance.

Additionally, the permit requires the treatment system to be monitored for flow on a daily basis, Biochemical Oxygen Demand (BOD₅) annually, and ammonia as N to be sampled once per quarter. The design capacity for the system is 0.0618 MGD.

Division staff met with Piperton Public Works staff, Mr. Richard Mills, the Public Works

Director, Mr. Anthony Harville, and Mr. Anthony Harbin, the Certified Operators in Charge, to discuss the current self-monitoring program. According to Mr. Mills, the treatment facility currently services 66 lots. Mr. Mills indicated that Phase 2 of the subdivision is underway, and Phase 3 is on hold for the future. The Division and Piperton Public Works staff inspected the wastewater treatment facility and drip irrigation field. The following is a summary of the findings and observations.

II. Records/Reports

Flow data and Monthly Operations Report was observed in the pump house located on site. Issues and corrective actions about the site were noted on the Monthly Operations Report. Additional information, such as the lab reports, are kept in the Piperton City Hall.

III. Facility Site Review

The system consisted of residential septic tanks, an equalizer tank, recycle tank, bio cleres, disposal tank, pump house, and the drip fields. The equalizer tank, recycle tank, bio cleres, disposal tank, and pump house were in an enclosure to the west of the drip field (Photo 1). All equipment appeared to be maintained well and in good condition. The equipment in the field house, such as the water meter and filter system, also appeared in good condition. The water meter calibration logs were observed in the pump house and calibrations occur once a year.

The drip field is split into five zones and cycles through each zone to distribute the wastewater. Air relief pipes are located on the northwestern edge of the field. The field was mowed at the time of the inspection. The fence around the drip field was at least four feet high, barbed wire, and appropriate signage was observed (Photo 2). Two locations that contained standing water were observed during the inspection. According to Mr. Harville, the wet area located in the mid-southeastern edge of the drip field (Photo 3) has been an ongoing leak they have been attempting to locate and fix for approximately a year. Recently, they determined the leak location and fixed the issue. Mr. Harville indicated they are keeping the spot under observation for any additional leaks. The other wet area observed near the northeastern fence line (Photo 4) was found during the inspection. Mr. Harville indicated they will determine the location of the leak and fix the issue.

When sampling is conducted, Mr. Harville samples from the spigot that is located in the pump house. While the permit requires a site visit at minimum every 14 days, Mr. Harville makes

site visits one or two times per week.

The Madeline Farms Subdivision wastewater treatment system does not directly discharge wastewater to any surface or subsurface waters.

Photographic Log





Project:		Site Location:	Permit No.:
Madeline Farms (LaGrange Pointe) Subdivision Wastewater Treatment Facility		Madeline Farms Subdivision, Piperton, Fayette County	SOP-07038
Photo No.	Date	DIRECTION 247 deg(T)	35.08830°N 089.61242°W ACCURACY 7 m DATUM WGS84
1	10-11-2022		
Description			
View southwest of pump house, bio cleres, and treatment tanks. Area was fenced in and locked upon arrival to the site.		 Taken With 2022-10-11 10:32:27-05:00	

Photo No.	Date	DIRECTION 118 deg(T)	35.08811°N 089.61233°W ACCURACY 5 m DATUM WGS84
2	10-11-2022		
Description			
View southeast of the drip field entrance. Proper signage was observed at the site (red arrow).		 Taken With 2022-10-11 10:31:01-05:00	


Project: Madeline Farms (LaGrange Pointe) Subdivision Wastewater Treatment Facility		Site Location: Madeline Farms Subdivision, Piperton, Fayette County		Permit No.: SOP-07038
Photo No. 3	Date 10-11-2022	DIRECTION 42 deg(T)	35.08761°N 089.61113°W	ACCURACY 4 m DATUM WGS84
Description View along the southeastern fence line of the wet area where a leak was located and fixed. This area is under observation for additional leaks.				

Photo No. 4	Date 10-11-2022	DIRECTION 22 deg(T)	35.08850°N 089.61002°W	ACCURACY 9 m DATUM WGS84
Description View of a ponded area near the northeastern fence line.		