

Mark R. Wedemeyer, Director

## Memorandum

То:	MBIA, Review Agencies and the General Public
From:	Raghavenderrao Badami, PE, Assistant Director
Subject:	Low Pressure Sewer

Date: March 24, 2022

### Background

Low Pressure Sewer (LPS) is a pressurized sanitary force main connecting multiple grinder pumps or pressure mayo tanks onto a common force main. This force main is smaller than a gravity main due to the solids being grinded in grinder pumps and effluent in mayo tanks being sent through the main via individual pumps. Gravity connections cannot be made to a low pressure force main.

#### Purpose

The purpose of this document is to provide guidance to all involved in the review, permitting, approval of LPS. This guidance is provided in the form of Frequently Asked Questions (FAQ's) on the county website and the below tables that summarize permitting requirements involving LPS for residential and commercial projects.

### **Residential and Commercial Projects – Guidance**

Please refer to Residential and Commercial tables and FAQ's below.

Note that this guidance covers many situations that are commonly encountered with these systems, but this is not an exhaustive list covering all permitting type and scenarios. If there are situations that are not covered by this guidance or there are questions regarding a specific project application, contact Inspections and Permits staff for assistance at 410-222-7790. FAQ's on the website will also be updated as needed.

# Residential

	Low Pressure System			Letter	On-site	Plumbing	Connection
Proposed Work	(LPS) or Gravity	Building Permit Required	PWA Required <sup>3</sup>	Agreement Required	Plumbing Permit	Permit Required	Permit Required
Demolition of							
existing Single							
Family Dwelling <sup>1</sup>	LPS	Yes	No	Yes	No	No	No
Demolition of							
existing Single							
Family Dwelling <sup>2</sup>	Gravity	Yes	No	No	No	No	No
New SFD	LPS	Yes	Yes	No	No	No	Yes
New SFD	Gravity	Yes	No	No	No	No	Yes
Interior additions &	LPS -						
renovations that	requires a						
create more than	second						
4,000sf total	mayo tank						
habitable area	or duplex						
	grinder						
	pump	Yes	Yes	No	No	Yes	No
Interior additions &	Gravity -						
renovations that	requires a						
create more than	duplex						
4,000sf total	grinder						
habitable area	pump	Yes	No	No	No	Yes	No
Replace and	LPS						
relocation of							
existing mayo tank							
or grinder pump							
ONLY		No	Yes	No	No	No	Yes
Replace and	Gravity						
Relocation of							
existing grinder							
pump ONLY		No	No	No	No	No	Yes
Installation of a	LPS						
private grinder							
pump only		No	Yes	No	No	No	Yes
Installation of a	Gravity						
private grinder							
pump only		No	No	No	No	No	Yes

### Notes

- 1. To remove and relocate/replace electrical panel box and service line
- 2. If the tank or grinder is on-site it will need to be relocated/replaced with a new tank at the property line.
- 3. All Mayo tank installations require a PWA

# Commercial

Proposed Work	Low Pressure System (LPS) or Gravity	Building Permit Required	PWA Required	Letter Agreement Required	On-site Plumbing Permit	Plumbing Permit Required	Connection Permit Required
Demolition of existing	-	•	-	•		-	-
structure	LPS	Yes	No	No	No	No	No
Demolition of existing							
structure	Gravity	Yes	No	No	No	No	No
New Structure	LPS	Yes	Yes	No	Yes	No	Yes
New Structure	Gravity	Yes	No	No	Yes	No	Yes
Installation of a public grinder pump only	LPS	No	Yes	No	Yes	No	Yes
Installation of a private grinder pump only	LPS	No	Yes	No	Yes	No	Yes
Installation of a private grinder pump (only) that discharges to a gravity							
cleanout	Gravity	No	No	No	Yes	Yes	Yes

### Notes

- All commercial grinder pumps are Duplex and private
- All commercial Mayo tanks are private with dual tanks require based upon flowuse
- All connections to a county system (gravity or LPS) require a connection permit.
- All Mayo tank installations require a PWA
- PWA required for  $\geq 8''$  service lateral