LMAS DISTRICT HEALTH DEPARTMENT

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Application for Onsite Sewage Disposal System Construction Permit

For systems other than single family residential and less than 10,000 gallons/day capacity

Evaluated under specifications contained in "Michigan Criteria for Subsurface Sewage Disposal" Michigan Department of Public Health, publication D-48, Rev. 4/94

The following must be submitted to obtain a construction permit:

1. Completed Application
2. Soils evaluation report
3. Detailed construction plans and Sewage Disposal System design plans
4. Application fee:
   < 2000 gallons/day - $458.00
   > 2000 gallons/day - $577.00

Notes:

1. A $26.00 fee is required for services requiring travel to an island.
2. Systems shall not be installed within 10 year floodplain, beneath buildings, underneath parking lots, roadways, or other impervious surfaces or within 10 feet of road right-of-ways.
3. A reserve area shall be identified for all new developments.
4. The following isolation distances must be met:

Feature	Distance in Feet
Surface Water	100
Building Footings or Storm Drains	25
Property Lines	10
Building Foundations	15
Type I and Type IIa Water Supply Well	200
Type IIb and Type III Water Supply Well	75
Residential Well	50

5. Variances from any Michigan Criteria rules must be submitted with this permit application prior to system construction.

6. An evaluation of the soils at the property is required to properly size and design the Commercial Sewage Disposal System. A Registered Sanitarian or Professional Engineer in private practice may provide the soils information as part of this application.

   Alternatively, LMAS may evaluate the soils at the property provided the owner/applicant facilitates the arrangement of backhoe cuts to a depth of 6' for soils assessment and payment of a service fee ($182, not included as part of application fee).

7. Volume of sewage flows may be provided by site specific water meter usage.

8. A registered professional engineer or registered sanitarian in private practice is required to prepare construction plans for systems with flows of 2,000-10,000 gallons/day including systems with a sewage output less than 2,000 gallons/day. The requirement for submittal of plans may be waived at the discretion of the health officer for small systems with flows less than 2,000 gallons per day (provided the cost of such system is less than $15,000).

   For systems exceeding 10,000 gallons/day, submit plans to Michigan Department of Environment, Great Lakes and Energy (EGLE) for review and approval.

   Systems with flows less than 1,000 gallons per day may be evaluated under the Upper Peninsula Environmental Health Code (UPEHC). Alternative treatment systems approved under the UPEHC may be considered for installation only for systems with flows less than 1,000 gallons per day.

9. Systems with sewage flows greater than 6,000 gallons/day require an EGLE groundwater discharge permit.

10. Wetland permits may be necessary under EGLE authority.

11. Additional information may be required following submission of application to determine proper system design and sizing.

Commercial Sewage System Application

Office Use Only	
Amount Paid:	
Date:	
Cash/Check:	
Receipt #:	

I. PROJECT IDENTIFICATION

1. Type: ☐ Vacant Land ☐ Existing Development
2. Establishment Name: _____
3. Business Type (use): _____
4. Operation: ☐ Year-round ☐ Seasonal (From _____ To _____)
5. Owner Name:_____
6. Applicant: _____

   Address: _____

   Phone: _____ Email: _____
5. Property Information:

   T: ___ N R: ___ E/W Section: ___

   Property Tax Identification Number: ____-____-____-____-____
6. Detailed directions to project site:

_____

_____

_____

_____

_____

II. CONSULTANT CERTIFICATION

1. Prepared by: _____
2. Registration number: _____
3. Firm: _____
4. Address: _____
5. Phone: _____
6. Email: _____
7. _____ _____

   Signature Date

III. SYSTEM DESIGN

1. System type (check one):

   ☐ Conventional (sites with acceptable soils per Michigan Criteria) – Refer to Article VIII

   ☐ Pressure Distribution – Refer to Article IX

2. Volume of flow (gallons/day): _____

   Note: Volumes greater than 2000 gallons per day must be dosed

3. Basis for flow determination: _____

4. Loading rate: ____ gal./ ft^2/day

IV. SEPTIC TANK(S)

1. Number and size of tanks: _____
2. Material construction: _____
3. Effluent filter: ☐ Yes ☐ No

   Note: Risers to grade are required per Michigan Criteria

4. Pump tank material and size (if applicable): _____

V. GREASE TRAP (REQUIRED AT FOOD SERVICE ESTABLISHMENTS)

1. Tank material: _____
2. Tank size: _____
3. # of tanks: _____

VI. EFFLUENT DOSING (REQUIRED IF FLOW > 2000 GALLONS PER DAY)

Note: Total pipe volume must equal or exceed the dose volume.

1. Dose volume = _____ sewage flow (gpd) / 4 doses per day = _____ gal./dose

VII. PUMP SELECTION (IF NECESSARY)

Total Dynamic Head (TDH) = elevation head (a) + friction head loss (b)

a. Elevation head: Elevation

Drain tile	_____ ft.
Pump	_____ ft.
Total	_____ ft.

b. Friction head loss:

Fittings: ____ # elbows (size ____') X ____ ft./elbow (equivalent length of straight pipe) = ____ft.

Pipe: ____ ft. pipe length (size ____") X ____ ft. friction loss/100' pipe = ____ ft.

Friction head loss = ____ ft. (fittings equivalent length of straight pipe) + ____ ft. pipe = ____ ft.

Total dynamic head loss = ____ ft. elevation head + ____ ft. pipe = ____ ft.

2. Pumping specifications

a. Dosing volume _____ (gal./dose)
b. Dosing time _____ (min.)
c. Pump duty point _____ gpm at _____ feet TDH (attach copy of pump performance curve)
d. Pump make _____
e. Pump model _____
f. HP _____
g. Pump/Pump Chamber – misc.

Yes	No	
☐	☐	Dual alternating pumps?
☐	☐	Audio/visual alarm?
☐	☐	Pumps accessible?
☐	☐	Explosive proof design?
☐	☐	Emergency power source provided?
☐	☐	Each pump sized for peak flow?
☐	☐	Waterproof junction box for disconnect?
☐	☐	Wet well vented?

VIII. DRAINFIELD - CONVENTIONAL

1. Type: ☐ Bed ☐ Trench
2. Amount of Fill: _____ inches 3. Fill Type: _____
5. Linear feet of pipe: _____ 5. Pipe material:_____
6. Pipe: diameter: ____ in. Volume: _____ gal./ft.
7. Pipe spacing: ____ feet on center
8. Effective seepage area: _____ (square feet)
8. Aggregate: Size _____ Depth_____ (inches)

   Note: Geotextile material required for aggregate cover

9. Depth of earth cover: _____ (inches)
10. Berm beyond the edge of stone: _____ ft.
11. Side slopes from berm edge: _____ on _____

IX. DRAINFIELD – PRESSURIZED DISTRIBUTION

1. Type: ☐ Bed ☐ Trench 2. Amount of Fill: _____ inches
3. Fill Type: _____ 4. Linear feet of pipe: _____
5. Pipe material: _____ 6. Pipe: diameter: ____ in.
7. Volume: _____ gal./ft.

   Note: Total pipe volume must equal or exceed the dose volume.

8. Pipe spacing: ____ feet on center
9. Effective seepage area: _____ (square feet)
10. Aggregate: Size _____ Depth_____ (inches)

    Note: Geotextile material required for aggregate cover

11. Depth of earth cover: _____ (inches)
12. Berm beyond the edge of stone: _____ ft.
13. Side slopes from berm edge: _____ on _____

OFFICE USE ONLY

1. Application is: ☐ Approved ☐ Not approved
2. Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

3. _____ _____

   Sanitarian Date

4. Sewage Disposal System Construction Permit Number: _____