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Septic System Management Plan for Above Grade Systems

The goal of a septic system is to protect human health and the environment by properly treating wastewater before returning it to the environment. Your septic system is designed to kill harmful organisms and remove pollutants before the water is recycled back into our lakes, streams and groundwater.

This **management plan** will identify the operation and maintenance activities necessary to ensure long-term performance of your septic system. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic maintainer or service provider. However, it is **YOUR** responsibility to make sure all tasks get accomplished in a timely manner.

The University of Minnesota's Septic System Owner's Guide contains additional tips and recommendations designed to extend the effective life of your system and save you money over time.

Proper septic system design, installation, operation and maintenance means safe and clean water!

Property Owner D AUID Berndt	Email davidate OH ayahos, con
Property Address 39540 630th Lu	Property ID 20-0-009200
System Designer Dave Lung	Contact Info 218-380-6936
System Installer Davo Longs	Contact Info 218-380-6930
Service Provider/Maintainer Bowes Sopt	Contact Info 218-326-2967
Permitting Authority A-Hein Co	Contact Info 218 - 927 - 7342
Permit #	Date Inspected

Keep this Management Plan with your Septic System Owner's Guide. The Septic System Owner's Guide includes a folder to hold maintenance records including pumping, inspection and evaluation reports. Ask your septic professional to also:

- Attach permit information, designer drawings and as-built of your system, if they are available.
- Keep copies of all pumping records and other maintenance and repair invoices with this document.
- Review this document with your maintenance professional at each visit; discuss any changes in product use, activities, or water-use appliances.

For a copy of the Septic System Owner's Guide, visit www.bookstores.umn.edu and search for the word "septic" or call 800-322-8642.

For more information see http://septic.umn.edu

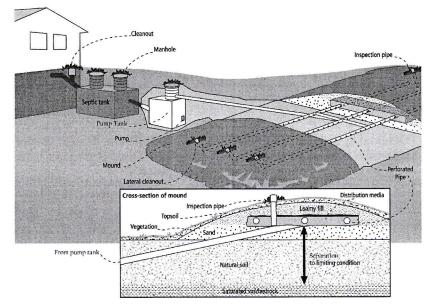
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Your Septic System



Septic System Specifics							
System Type: OI OII OIV* OV*	System is subject to operating permit*						
(Based on MN Rules Chapter 7080.2200 – 2400)	System uses UV disinfection unit*						
*Additional Management Plan required	Type of advanced treatment unit						
Dwelling Type	Well Construction						
Number of bedrooms:	Well depth (ft):						
System capacity/ design flow (gpd): 300	□ Cased well Casing depth:						
Anticipated average daily flow (gpd): _/o	□ Other (specify):						
Comments	Distance from septic (ft):						
Business?: OY ON What type?	Is the well on the design drawing? OY N						
Septic Tank							
□ First tank Tank volume: 1000 gallons	□ Pump Tank 500 gallons						
Does tank have two compartments? OY N	□ Effluent Pump make/model: 2011er 48						
□ Second tank Tank volume:gallons	Pump capacity <u>27 + GPM</u>						
□ Tank is constructed of Concrete	TDH 14,2 Feet of head						
□ Effluent screen: Y N Alarm Y N	- Alarm location Ele-Petistal						
Soil Treatment Area (STA)							
Mound/At-Grade area (width x length): ft x ft Rock bed size (width x length): ft x ft Location of additional STA: Type of distribution media: ft x	Inspection ports Cleanouts Surface water diversions Additional STA not available						

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Septic System Management Plan for Above Grade Systems



Homeowner Management Tasks

These operation and maintenance activities are your responsibility. Chart on page 6 can help track your activities.

Your toilet is not a garbage can. Do not flush anything besides human waste and toilet paper. No wet wipes, cigarette butts, disposal diapers, used medicine, feminine products or other trash!

The system and septic tanks needs to be checked every 36 months

Your service provider or pumper/maintainer should evaluate if your tank needs to be pumped more or less often.

Seasonally or several times per year

- Leaks. Check (listen, look) for leaks in toilets and dripping faucets. Repair leaks promptly.
- Soil treatment area. Regularly check for wet or spongy soil around your soil treatment area. If surfaced sewage or strong odors are not corrected by pumping the tank or fixing broken caps and leaks, call your service professional. Untreated sewage may make humans and animals sick. Keep bikes, snowmobiles and other traffic off and control borrowing animals.
- Alarms. Alarms signal when there is a problem; contact your service professional any time the alarm signals.
- Lint filter. If you have a lint filter, check for lint buildup and clean when necessary. If you do not have one, consider adding one after washing machine.
- Effluent screen. If you do not have one, consider having one installed the next time the tank is cleaned along with an alarm.

Annually

- Water usage rate. A water meter or another device can be used to monitor your average daily water use. Compare your water usage rate to the design flow of your system (listed on the next page). Contact your septic professional if your average daily flow over the course of a month exceeds 70% of the design flow for your system.
- Caps. Make sure that all caps and lids are intact and in place. Inspect for damaged caps at least every fall. Fix or replace damaged caps before winter to help prevent freezing issues.
- Water conditioning devices. See Page 5 for a list of devices. When possible, program the recharge frequency based on water demand (gallons) rather than time (days). Recharging too frequently may negatively impact your septic system. Consider updating to demand operation if your system currently uses time,
- Review your water usage rate. Review the Water Use Appliance chart on Page 5. Discuss any major changes with your service provider or pumper/maintainer.

During each visit by a service provider or pumper/maintainer

- Make sure that your service professional services the tank through the manhole. (NOT though a 4" or 6" diameter inspection port.)
- Ask how full your tank was with sludge and scum to determine if your service interval is appropriate.
- Ask your pumper/maintainer to accomplish the tasks listed on the Professional Tasks on Page 4.

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Septic System Management Plan for Above Grade Systems



Professional Management Tasks

These are the operation and maintenance activities that a pumper/maintainer performs to help ensure long-term performance of your system. At each visit a written report/record must be provided to homeowner.

Plumbing/Source of Wastewater

- Review the Water Use Appliance Chart on Page 5 with homeowner.

 Discuss any changes in water use and the impact those changes may have on the septic system.
- Review water usage rates (if available) with homeowner.

Septic Tank/Pump Tanks

- *Manhole lid.* A riser is recommended if the lid is not accessible from the ground surface. Insulate the riser cover for frost protection.
- Liquid level. Check to make sure the tank is not leaking. The liquid level should be level with the bottom of the outlet pipe. (If the water level is below the bottom of the outlet pipe, the tank may not be watertight. If the water level is higher than the bottom of the outlet pipe of the tank, the effluent screen may need cleaning, or there may be ponding in the soil treatment area.)
- Inspection pipes. Replace damaged or missing pipes and caps.
- Baffles. Check to make sure they are in place and attached, and that inlet/outlet baffles are clear of buildup or obstructions.
- *Effluent screen.* Check to make sure it is in place; clean per manufacturer recommendation. Recommend retrofitted installation if one is not present.
- Alarm. Verify that the alarm works.
- Scum and sludge. Measure scum and sludge in each compartment of each septic and pump tank, pump if needed.

Pump

- Pump and controls. Check to make sure the pump and controls are operating correctly.
- Pump vault. Check to make sure it is in place; clean per manufacturer recommendations.
- Alarm. Verify that the alarm works.
- *Drainback*. Check to make sure it is draining properly.

•	Event counter or elapsed time meter. Check to see if there i	s an event counter or elapsed time
	meter for the pump. If there is one or both, calculate the wa	ater usage rate and compare to the
	anticipated use listed on Design and Page 2. Dose Volume:	gallons: Pump run time
	Minutes	-

Soil Treatment Area

- Inspection pipes. Check to make sure they are properly capped. Replace caps and pipes that are damaged.
- Surfacing of effluent. Check for surfacing effluent or other signs of problems.
- Lateral flushing. Check lateral distribution; if cleanouts exist, flush and clean at recommended frequency.
- Vegetation Check to see that a good growth of vegetation is covering the system.

All other components – evaluate as listed here:

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Homeowner Maintenance Log

Activity	Date accomplished									
Check frequently:										
Leaks: check for plumbing leaks*										
Soil treatment area check for surfacing**	and the second									
Lint filter: check, clean if needed*										
Effluent screen (if owner-maintained)***										
Alarm**										
Check annually:										
Water usage rate (maximum gpd)			9							
Caps: inspect, replace if needed										
Water use appliances – review use										
Other:										
Monthly						15 Table 15				
*Quarterly										
**Bi-Annually										
Notes:										
As the owner of this SSTS, I understand he sewage treatment system on this properties Management Plan are not met, I will ecessary corrective actions. If I have a rea for future use as a soil treatment of the second sec	erty, promp a new	utili: otly no system	zing t otify	he Man the pe	agemen rmitt.	nt Pla ing au	n. If thori	requi Ly and	remen: ! take	ts in
Property Owner Signature:						Date	,	hite of the same o		terano IIV
Management Plan Prepared By: A A	7	4	106	E		Certi	ficatio	n#	117	4
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