ST. LOUIS COUNTY BOARD OF ADJUSTMENT STAFF REPORT Case: 6248

INSPECTION DATE: 3-15-21

REPORT DATE: 2-22-21

MEETING DATE: 4-8-21

APPLICANT INFORMATION

APPLICANT NAME: Joseph Leoni

APPLICANT ADDRESS: 6324 Juniper Ln. Gilbert, MN 55741

OWNER NAME: Same as above

SITE ADDRESS: 6324 Juniper Ln. Gilbert, MN 55741

LEGAL DESCRIPTION: THAT PART OF LOT 5 of Esquagama North Beach Plat LYING ELY OF THE FOLLOWING DESCRIBED LINE BEG AT A PT 75 FT E OF NW COR OF LOT 5 ON N LINE THENCE SLY PARALLEL TO W LINE OF LOT 335 FT THENCE SWLY 22DEG7' 87 FT TO SHORELINE and THAT PART OF LOT 5 of Esquagama North Beach Plat LYING ELY OF THE FOLLOWING DESCRIBED LINE BEG AT A PT 75 FT E OF NW COR OF LOT 5 ON N LINE THENCE SLY PARALLEL TO W LINE OF LOT 335 FT THENCE SWLY 22DEG7' 87 FT TO SHORELINE, S27, T58N, R16W (Biwabik)

PARCEL IDENTIFICATION NUMBER (PIN): 260-0028-00050 and 260-0028-00052

VARIANCE REQUEST: The applicant is requesting relief from St. Louis County Zoning Ordinance 62, Article III, Section 3.4, to allow a nonconforming principal structure to be replaced at a reduced shoreline setback where 75 feet is required.

PROPOSAL DETAILS: The applicant is proposing a replacement dwelling to be located 50 feet from the shoreline of Lake Esquagama where 75 feet is required. There is currently a dwelling on the property that is located approximately 25 feet from the shoreline. The proposed replacement dwelling would be located in a similar location, but at a shoreline setback of 50 feet rather than the current setback of approximately 25 feet.

PARCEL AND SITE INFORMATION

ROAD ACCESS NAME/NUMBER: Juniper Ln. ROAD FUNCTIONAL CLASS: Local Public Road

LAKE NAME: Esquagama Lake

LAKE CLASSIFICATION: GD

RIVER NAME: N/A RIVER CLASSIFICATION: N/A

DESCRIPTION OF DEVELOPMENT ON PARCEL: The development on the property consists of a dwelling, several accessory structures, a well, and a septic system that is also propose to be replaced.

ZONE DISTRCT: SMU 11

PARCEL ACREAGE: 2.1 ACRES LOT WIDTH: 203 FEET

FEET OF ROAD FRONTAGE: 215 FEET FEET OF SHORELINE FRONTAGE: 425 FEET

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PARCEL AND SITE INFORMATION

VEGETATIVE COVER/SCREENING: The majority of the property is well vegetated, but there are some areas near the shoreline that lack screening. The proposed development would be visible from the lake.

TOPOGRAPHY: The property sits on somewhat of a ridge with the east side of the property located near the top of the ridge and the west edge of the property located on the low side to the toe of the slope. The east side of the property is approximately 8-10 feet above the west side of the property.

FLOODPLAIN ISSUES: The southwest portion of the property is fairly low and appears to be at or below the floodplain elevation. FEMA and floodplain ordinance standards will need to be met for redevelopment on the property.

WETLAND ISSUES: The southwest portion of the property that is near the floodplain elevation may contain floodplain type wetlands.

ADDITIONAL COMMENTS ON PARCEL: The property sits on a small point/peninsula on the shoreline.

FACTS AND FINDINGS

A. Official Controls:

- 1. Zoning Ordinance 62 states that the shoreline setback on a general development lake is 75 feet; the applicant is requesting approval for a reduced shoreline setback of 50 feet.
- 2. Objective LU-3.1 of the St. Louis County Comprehensive Land Use Plan is to base variance decisions on uniform approval criterion to ensure all applications are treated equitably, that community health and safety is protected, and that the overall character of a given area is preserved.
- 3. Objective LU-3.3 the St. Louis County Comprehensive Land Use Plan is to acknowledge why nonconformities are a concern and that variances should be for exceptional circumstances as noted in Minnesota Statute 394.22, Subd.10.

B. Practical Difficulty:

- 1. The property is somewhat unique due to the fact that it sits on a point on the shoreline.
 - a. This requires the shoreline setback to be met in multiple directions.
- 2. The property is located on a ridge with floodplain in the lower portions of the property.
 - a. The floodplain regulations may require development to be located on the higher portion of the property near the east property line.
- 3. It appears there are locations to meet the shoreline setback and avoid the floodplain.
 - a. These locations may require some excavation and fill to create a suitable building site.
- 4. The location near the rear of a few accessory structures and parking area on the property may be a suitable location for a replacement dwelling.
 - a. The applicant has stated that these structures would be removed after the proposed dwelling with attached garage are completed.
 - b. This location would allow the shoreline setback to be met and be located above the floodplain elevation.
 - c. This location may require some additional excavation and grading for the proposed structure, which may be necessary regardless of it the new dwelling was constructed in this location.
- 5. The applicant has started site prep for a garage in a location near the existing accessory structures.

- a. This area may be located below the floodplain elevation, but could be a suitable location for a dwelling as long as floodplain standards are met.
- 6. The property has plenty of depth to allow a dwelling and detached accessory structure to meet the required shoreline setback.
- 7. It does not appear that the proposed septic system would prevent the development from meeting the shoreline setback.

C. Essential Character of the Locality:

- 1. The majority of the development in the area appears to meet the shoreline setback, but there are a few structures that are located approximately 50 feet from the shoreline.
- 2. There were variances approved on two properties within this plat. The variances on one property did not include shoreline setback variances.
- 3. The other property had two variances approved on the property for two separate dwellings to be located at a reduced shoreline setback.
 - a. One was approved at 59 feet from the shoreline, the other was allowed at 50 feet from the shoreline.
 - b. This property consists of three platted lots.
 - c. At the time of the approval the practical difficulty indicated that there was limited area to meet the required shoreline setback.

D. Other Factor(s):

- 1. Although there may be some challenges with site prep, there does appear to be area on the property where a replacement dwelling could meet all requirements and setbacks.
- 2. St. Louis County Zoning Ordinance 62 states that it shall be the burden of the applicant to demonstrate sufficient practical difficulty to sustain the need for variance. Absent a showing of practical difficulty as provided in Minnesota Statutes and this ordinance, the Board of Adjustment shall not approve any variance.

NOTE TO PLANNERS-Add as attachments: 1. Zoning/location map 2. Air photo 3. Site sketch 4. Project picture (if applicable) 5. Other pertinent pictures or maps

BOARD OF ADJUSTMENT CRITERIA FOR APPROVAL OF A VARIANCE

- 1. Is the variance request in harmony with the general purpose and intent of official controls?
- 2. Has a practical difficulty been demonstrated in complying with the official controls?
- 3. Will the variance alter the essential character of the locality?
- 4. What, if any, other factors should be taken into consideration on this case?

RECOMMENDED CONDITIONS, IF APPROVED

In the event that the Board of Adjustment determines that the proposal meets the criteria for granting a variance to allow a nonconforming principal structure to be replaced at a reduced shoreline setback where 75 feet is required, the following conditions shall apply:

- 1. The structure shall be unobtrusive (earth-tone) colors, including siding, trim and roof.
- 2. The stormwater runoff from the proposed structure shall not directly discharge directly into the lake or on adjacent lots.
- 3. A plan to enhance vegetation and protect the shore impact zone shall be submitted, approved and implemented by the property owner prior to the issuance of a land use permit.
- 4. Waste shall be disposed of in a manner acceptable to St. Louis County Solid Waste Ordinance 45.
- 5. The requirements of the Minnesota Wetland Conservation Act shall be followed.
- 6. The requirements of St. Louis County Floodplain Management Ordinance 43 and FEMA floodplain standards shall be met.
- 7. The proposal shall adhere to all county, state and federal regulations.

ST. LOUIS COUNTY, MN PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT

Duluth Virginia

Government Services Center Government Services

Center

320 West 2nd Street, Suite 301 201 South 3rd Avenue West

Duluth, MN 55802 Virginia, MN 55792 (218) 725-5000 (218) 749-7103

VARIANCE REQUEST PERMIT APPLICATION

General - This application is used to apply for a Land Use Permit. Applicants will need to attach the appropriate worksheet(s) in order to process. Incomplete applications will be returned. Note that the 'clock' does not begin until after payment has been processed for the application. For more information, see our website at:

www.stlouiscountymn.gov/BuildingStructures

Enter the Primary PIN and Associated PIN (if applicable) of the property to be reviewed.

PIN is found on your Property Tax Statement. For example, 123-1234-12345. Primary PIN: Parcel where Structure/SSTS are located. Associated PIN: Additional and/or adjacent property that you own or that is related to the project.

County Land Explorer: https://www.stlouiscountymn.gov/explorer

Property Lookup: http://apps.stlouiscountymn.gov/auditor/parcelInfo2005Iframe

Primary PIN **260-0028-00050**

Associated PINs

PIN # **260-0028-00052**

Is this application being submitted for a Rehearing?

If this application is being submitted because a previous Variance Permit application was denied or disapproved, please select Yes.

No

Enter Applicant Information

I am a: Landowner
Applicant Name: Joseph Leoni
Address Line 1: 6324 Juniper Lane

Address Line 2: -City: Gilbert
State: MN
Zip: 55741

Primary Phone: (218)780-5756

Cell Phone: -Fax: --

Email: jleoni@trentilaw.com

Contact Person Name: -Contact Person Phone: --

Mailing Address Information.

This address can default from the address you selected. If the values defaulted are not correct, please enter the correct information.

Same as Applicant

address?

No

Name: Joseph Leoni

Address: **6324 Juniper Lane**

City: Gilbert
State/Province: MN
Zip: 55741

Primary Phone: -Cell Phone: -Fax: --

Email: jleoni@trentilaw.com

Site Information

If there is no site address, the application will be forwarded to 911/Communications to assign one.

Is there a site address

Yes

for this property?

Site Address:

6324 Juniper Lane Gilbert, MN

Is this leased property? **No** Leased From? --

US Forest ServiceUS Forest Service

Superior National Forest 8901 Grand Avenue Place

Duluth, MN 55808

MN Power MN Power

Shore Land Traditions 30 West Superior Street Duluth, MN 55802

MN DNR, Area Hydrologist MN DNR, Area Hydrologist

7979 Highway 37 Eveleth, MN 55734

MN DNR Land and Minerals

MN DNR Land and Minerals

1201 East Highway 2 Grand Rapids, MN 55744

St. Louis County - Duluth St. Louis County - Duluth

Government Services Center 320 West 2nd Street, Suite 301

Duluth, MN 55802 (218) 725-5000

St. Louis County - Virginia St. Louis County - Virginia

Land and Minerals 7820 Highway 135 Virginia, MN 55792 (218) 749-7103

Do you have written authorization from the leased property owner?

If Yes, you must attach written authorization form.

How is the property accessed?

Public Road

No

No

Enter Project Information.

If you answered 'Yes' to any of the questions below, it is required that you submit a copy of a septic permit to construct or certificate of compliance approval or municipal/sanitary district approval when applying for a land use permit.

Is this project on a parcel less than 2.5 acres?

No

Is this project within 300 feet of a stream/river or 1,000 feet of a lake?

Yes

Is this project adding a bedroom?

Include home, garage, and accessory dwelling.

Yes

Total # of bedrooms on property after project completion.

4

Does this project include plumbing or pressurized water in proposed structure?

Yes

If Yes, please explain: Well is planned

Is this project connected to a municipal or sanitary district system?

No

VARIANCE REQUEST WORKSHEET

A variance allows the use of property in a manner otherwise forbidden by a zoning ordinance by varying one or more of the performance standards such as lot size, setbacks, etc. Variances from official zoning controls are defined under Minnesota Statutes 394.27 and require the landowner to prove that the property could not otherwise be used or enjoyed in the proposed way by complying with ordinance requirements and that there will be no negative impact on surrounding properties.

It is advisable that you discuss your request with Planning and Community Development staff prior to submitting the application. Approval or denial of your request is dependent on the justification you provide in answering the questions on this application. For more information, please check our website at: www.stlouiscountymn.gov/VarianceRequired

VARIANCE REQUEST INFORMATION

Complete this form along with the Land Use Permit Application

What kind of variance request is this?

If this is a Variance After the Fact, you must answer additional questions below.

Variance Request

Describe what you are varying from and the situation that makes it difficult to comply with county ordinances. If your proposal includes a structure, please also list the length, width and height of the structure.

When we purchased the property we believed we could remodel the existing home. It probably is not possible, so we want to tear it down and build new. The most desirable part of the property is on the point

and we want to build on the point. The remaining property is hilly and swamp.

Describe the intended/planned use of the property.

Family home.

Describe the current use of your property.

Family home.

Describe other alternatives, if any.

We have attached the other alternatives. They are to remodel the existing home, build on the existing home and this proposed plan. We had the property surveyed so it would not encroach on the 50 foot setback.

If approved, how will the proposed use, with the variance, fit into the character of the neighborhood/area?

Excellent. There are family homes on both sides. The home will be set back from the original structure.

Describe how neighboring properties and the use of those properties will be impacted by the proposed use with the variance.

No impact. The new home will be set back.

Describe how negative impact to the local environment and landscape will be avoided.

The home will be outside the 50 foot setback. The original home was 25 feet from the lake.

Describe the expected benefits of a variance to use of this property.

A new home with a new septic will not be on the property.

Include additional comments that will darify your request for the Planning and Community Development staff members and the Board of Adjustment.

We surveyed the property to be within the 50 foot setback. The remaining property is hilly or subject to flooding. This was confirmed by the previous owner and neighbors. This is the best and possibly only place to build a home.

IF YOU ARE RESPONDING TO A PERMIT VIOLATION, PLEASE ANSWER THESE ADDITIONAL OUESTIONS

Describe your reasons county zoning ordinance requirements were not followed.

Describe your effort to comply with the ordinance and to obtain a land use permit and/or other required permits.

Describe any substantial investments, construction and/or repairs made to the property before you discovered you needed a variance.

If there was construction or repair, on what date did it begin? What date did it end?

Start Date -End Date --

Who performed the construction or repair work?

--

Was a survey of your property boundaries obtained?

--

Prior to the construction or repair work, did you speak with anyone from the Planning and Community Development Department?

--

By submitting this application, I certify and agree that I am the owner or the authorized agent of the owner of the above property, and that all uses will conform to the provisions of St. Louis County. I further certify and agree that I will comply with all conditions imposed in connection with the approval of the application. Applicants may be required to submit additional property descriptions, property surveys, site plans, building plans, and other information before the application is accepted or approved. **Intentional or unintentional falsification of this application or any attachments thereto will make the application, any approval of the application and any result invalid.** I authorize St. Louis County staff to inspect the property to review the application and for compliance inspections. Furthermore, by submitting this application, I release St. Louis County and its employees from any and all liability and claims for damages to person or property in any manner or form that may arise from the approval of the application or any related plans, the issuance of any resulting permit or the subsequent location, construction, alteration, repair, extension, operation or maintenance of the subject matter of the application.

If your name, contact information or email address have changed, you should update your contact information in the portal by selecting 'Maintain Contact Information' at the top of this page.

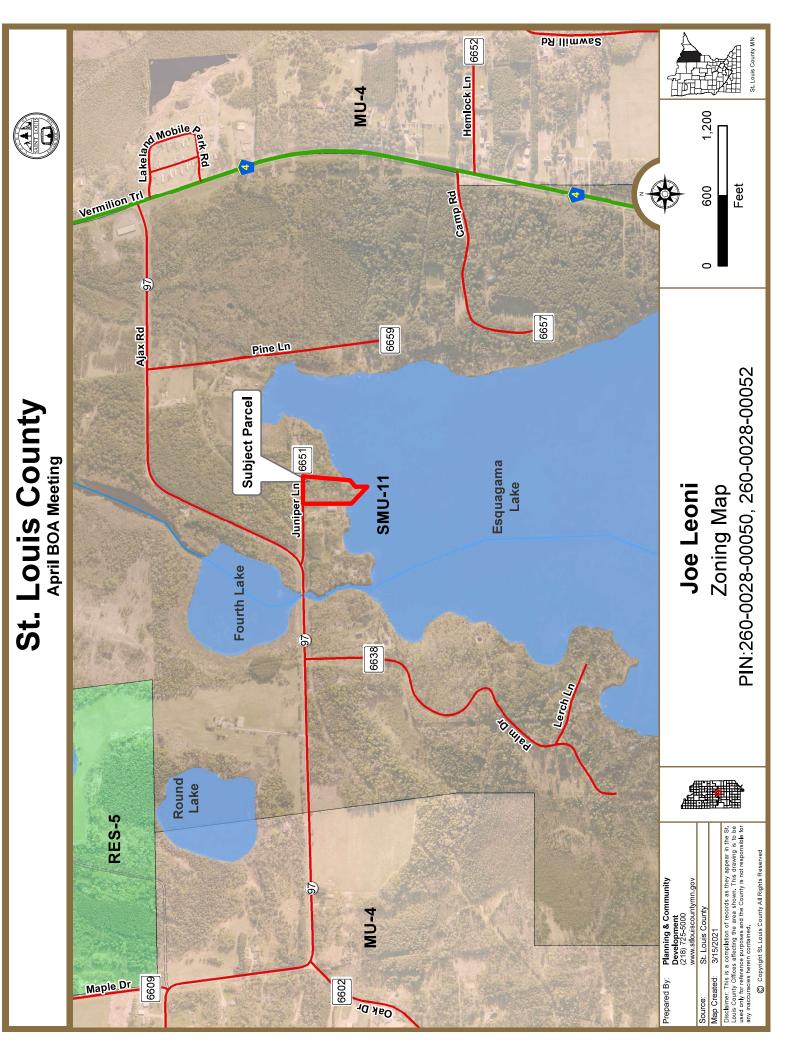
Submitted By: --

Address: --City: --State: --Postal Code: --Email Address: ---

I have read and agree to the statement above.

No

Miles 0.5 9221 PIN:260-0028-00050, 260-0028-00052 St. Louis County April BOA Meeting Subject Parcel 6612 Location Map Joe Leoni 6099 6604 orge 6624 Planning & Community Development (218) 725-5000 www.stlouiscountymn.gov St. Louis County 6610 6603 Prepared By:



Approximate Floodplain Elevation St. Louis County Site Map Approximate Shoreline Setback 2 08000-8200-082

Proposed Structure St. Louis County Site Map J miper Ln A 5 08000-8200-092

Possible Alternative St. Louis County Site Map 2 08000 8200 09S Prepared By:



PETERSON SEPTIC DESIGN & INSPECTION LLC

Date: 8/12/2020 INVOICE # 26

PO BOX 547 BIWABIK MN 55708 218-290-6532

Joe Leoni

BILL TO

LICENSE # L2367

Date

Description

8/11/20

Holding Tank Design for 6324 Juniper Lane Gilbert MN 55741

Balarice

Amount

\$ 400.00

Current

1-30 Days Past Due

31-60 Days Past Due

61-90 Days Past Due Over 90 Days Past Due

Amount Due \$ 400.00

Remittance

Invoice #

26

Date

Amount Due

\$ 400.00

Amount Enclosed

THANK YOU FOR YOUR BUSINESS!!

SSTS Design Summary

Environmental Services Onsite Wastewater Div., St. Louis County, MN To be completed by SSTS licensed designer for review & approval by SLC EHS



Design Date: 8/11/20	SSTS Designer: Mark	Peterson		
Site Address: 6324 Juniper Lane	Gilbert MN 55741		Township: 1	Disambile
		Other (identify):	TOWNSHIP: 1	DIWADIK
	ousiness type:	the (reciting),		
If commercial, provide: FOG: Design Flow Dwelling	Estimated B	BOD: T	SS:	
	Class I Class II	Class III	Class IV	
Total Finished Floor Area Sq Ft (if Clas	s. II, III, IV):		(include all dwellings): :)
No. of people using the SSTS:	Max Flow (gals/day): 30			
Contour Loading Rate (gpd/ft):		ng Rate (gpd/ft²):	7 Tow (gai	5/uay). 200
Predominate Soil Type:			Dodov on Dostatia	
Water Meter (Y or N): Yes Bu	ried Sewer Line Pressure		Redox. or Restrictive la	iyer:
): N	- Marie Carlotte Control of the Cont
SSTS Flow Description: 3000 gallon	septic/pump compo to	ank (2000/1000)		
MPCA SYSTEM TYPE: Type 1	M Toron	<u> </u>		
TANK DESCRIPTION		∐ Type III	Type IV	Type V
(ex: Septic Tank, Holding Tank, Pump Tank, Septic/Pump Combo, or other)	Tank Size Gallons (ex: 1000/500)	Tank(s) (New or Existing)	Tank Material (Precast, plastic, Fiberglass, etc)	Alarm (Yes or No)
Holding Tank	2000/1000	New Exist	precast	YES
		New Exist	product	169
		New Exist		
Sand/Rock Bedded (Y or N): Yes	Therefore d ()(- A)) as	New Exist		
DISTRIBUTION TO DRAINFIELD	Insulated (Y or N): Yes			
	Distribution Box			
Pressure: Pump model & size:	istribution Box			
Gallons/minute: with Ft of Hea	d: Pump to field	d line diameter (inches):		
Manifold diameter (inches):	Manifold location: Center		F	
Number of laterals:	Diameter of laterals:		End feed:	
Orifice size (inches):	Spacing (inches):		ush ports (Y or N):	
Dose Volume to network (gal):	Drainback (gal):		ields (Y or N):	
Elapsed Time Meter (Y or N):			unter (Y or N):	
Empora Time Piecei (1 OF N):	Time Dose Panel (Y or N):	Specify ty	pe:	

SSTS Design Summary Continued
Site Address:
DRAINFIELD INFORMATION
In Ground
Seepagebed: Rock Gravelless Chambered Poly. Aggregate
Trench: Rock Gravelless Chambered Poly. Aggregate Trench Width (ft): Number of Transhess
Pod Dimensions (0)
Bed Dimensions (ft): Width by Length Total Treatment Area (sq ft):
Depth of Rock (inches): Depth of Cover (inches): At Grade
Rock Cell Size (ft): Width by Length Downhill berm width (ft): Mound
Number of Rock Beds: Bed Size (ft): W by L Total Dimension (ft): W by L Uphill Fill Depth (in): Downhill Fill Depth (in):
Uphill Berm Width (ft): Downhill Berm Width (ft): Adjusted Sand Volume (cubic yards):
Registered Pretreatment Filter System
Filter Class: Intermittent/Single Pass Recirculating Subsurface Flow Other Media Type: Sand Peat Gravel Textile/Synthetic Constructed Wetlands No. of Filters: Rock Bed Dims (ft): W x L Bed Media Depth (in): Mfr. & Design:
Aerobic Treatment System
Type: Suspended Growth Fixed Film Sequencing Batch Other: Gallons/day: Number of Units: Manufacturer: Disinfection (Y or N): If yes, chemical or UV:
Designer's comments regarding this SSTS design: Tank will be used temporarily until future construction is completed and then will be used as a component for a standard septic system for future home.

Esquagama Lake. bedroom Cabin Twell 75' Garage new 3000 pol Holding tonly (2000/1000)20 160 Not to Scale 6324 Juniparane

DNSITE SEWAGE TREATMENT

Soil Observation Log

Consistence Loose Loose v 04.01.2019 Firm 6324 Juniper Lane Gilbert |------ Structure------08/11/20 Organic Matter Elevation: Structureless Grade Moderate Weak Bedrock Slope shape Date Observation Type: Single grain Prismatic Granular (License #) Shape Alluvium Slope %: Location / Address: Toe Slope Indicator(s) hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws. Project ID: F Redox Kind(s) Foot Slope Concentrations □ Loess Shoulder Sack/Side Slope sunny/1100 Outwash Lacustrine Soil survey map units: Mottle Color(s) (Signature) **5YR 5/6** Matrix Color(s) 10YR 2/2 10YR 3/4 2.5Y 4/3 Leoni Summit Soil parent material(s): (Check all that apply) Rock Frag. % 35-50% <35% Weather Conditions/Time of Day: <35% Landscape Position: (check one) Forest (Designer/Inspector) Observation #/Location: sand/gravel Texture Loam rock Silt Vegetation: Depth (in) Comments 14-20 6-14 9-0 Client:

(Date)



SSTS Tank Worksheet

Environmental Services Department Onsite Wastewater Division, St. Louis County, MN

Applicant: Joe Leoni Site Address: 6324 Juniper Lane Gilbert MN 55741
System Designer: Mark Peterson Date: 8/11/20
What type of use are these tanks servicing? seasonal cabin
Feed into septic tanks: Gravity X Pressure Both
What is the design flow for the treatment system? gallons per day
Describe flow train (order) of tanks: 3000 gallon 2 compartment (2000/1000) tank
Garbage disposal (Y/N) Bath > 75 gallons (Y/N) N
Septic tanks for project
Proposed number of septic tanks 1 Depth of cover 12-24 inches Septic tank alarm(Y/N) Y
Anchoring requirements (Y / N) N If yes, specify
Septic Tank # 1
Size of septic tank 1 st compartment 2000 gals. 2 nd compartment 1000 gals.
Proposed tank material concrete Existing or new tank X
Seam locations on tank
Elevation of seams above seasonal high water table inches
Risers cast into lid? (Y/N) Y If no method of attachment?
Filter supplied? (Y/N) Y Method of tank bedding 3/4 minus or sand ALARMED FILTER Is tank to be insulated? (Y/N) Y If yes, how spray foam or equivalent



Saint Louis County

Environmental Services Department - Onsite Wastewater Division 1-800-450-9278

<u>Duluth</u>: 320 W 2nd St, Suite 301, Duluth, MN 55802 (218) 725-5200

<u>Virginia</u>: 201 S 3rd Ave W, Virginia, MN 55792 (218) 749-0625

OPERATING PERMIT WORKSHEET

APPLICANT: Joe Leoni	DATE: 8/11/20
SITE ADDRESS: 6324 Juniper Lane Gilbert MN 557	
SYSTEM DESIGNER: Mark Peterson	
Reason for Operating Permit Application: X Holding Tank Operation and maintenance requirements Lack of expansion area Sub-standard or limited flow requirement Previous failure Commercial establishment/High Waste standard Other	s
System description:	3000 gallon 2 compartment tank (2000/1000)
Proposed maintenance requirements: pumping as needed by a licensed pumping contractor	
Proposed monitoring requirements: (Check all that apply)	Frequency Limits
X Incoming flows	during pumpout by service provider
Pump run times	
Event counter	
Surface failure/noxious odors inspection Alarms	
End of pipe inspections	
BOD ⁵	
TSS	
Fecal Coliform FOG	
Total Nitrogen	
Total Phosphorous	
General system operating condition	
External pumping records	
Other	

OPERATING PERMIT WORKSHEET

Propos	ed management option:			
	Homeowner			
	ISTS Construction contractor:			License #
	O&M Contractor:	Name:		License #
ž				
Propos	ed reporting method:			
1 Topos	Internet			
X	Written report			
	Other (specify)			
	ctner (speeny)	No. of the American		
Propose	ed reporting frequency:			
	Monthly			
	Yearly			
	•			
\overline{X}	Biannually Length of permit			
	No report required			
	No report required			
Propose	d contingency plan:			

C	A pipe of a set of	- 11 II		
Comme	nts: A signed contract	with a licensed service	ce provider required	. A visual alarm
will be in	stalled in tank and set to olors at 750/ A	anti-anti-anti-anti-anti-anti-anti-anti-		
	stalled in tank and set to alarm at 75% t	ank capacity. A water me	eter will need to be in	stalled prior to the holdin
tank				

Signatur	es:			
B	IMA A ADI			
Designer:	Willy A Story	4.4.	_	0440400
	- juna / Val re Cl	140	Date:	8/12/20
Homeowi	ner: (D :	
			Date:	



Septic System Management Plan for Holding Tank 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 holding tank system is designed to store your used water before it is recycled back into our lakes, streams and groundwater.

This **management plan** will identify the operation and maintenance activities necessary to ensure compliance with applicable rules and regulations. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic maintainer. 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: Joseph and Terrance Leoni	
Property Address: 6324 Juniper Lane Gilbert MN 55741	Property ID: 260-0028-00050
System Designer: Mark Peterson	License #: 2367
System Installer:	License #:
Service Provider/Maintainer: TBD	Phone:
Permitting Authority: St. Louis Co	Phone: 218-749-0625
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-builts 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, call 1-800-876-8636 or go to http://shop.extension.umn.edu/

http://septic.umn.edu

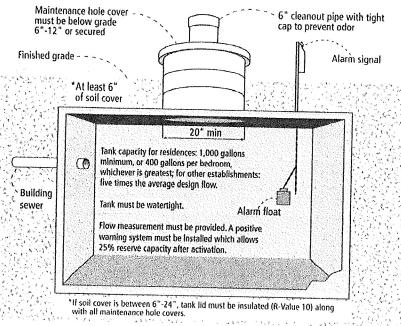
Service contract held by: TBD

Service contract is attached to this management plan

Septic System Management Plan For Holding Tank Systems



Your Holding Tank



Dwelling Type	Well Construction	
Number of bedrooms: 2 System capacity/ design flow (gpd): 300 Anticipated average daily flow (gpd): 200 Comments What type? Number of occupants	Well depth (ft): unknown Cased well Casing depth: Other (specify): Distance from septic (ft): 75 Is the well on the design drawing?	
Holdin	g Tank	
One tank: Tank volume: 3000 gallons Two tanks: Tank volume: gallons Tank is constructed of Concrete	□ Flow measurement device: water meter □ Location: pedistal at tank □ Alarm visual audible □ Reserve %: 75	

Septic System Management Plan For Holding Tank Systems



Homeowner Management Tasks

These operation and maintenance activities are your responsibility. Use the chart on page 6 to track your activities.

Identify the service intervals recommended by your system designer and your local government. The tank assessment for your system will be the **shortest interval of these three intervals**. Your pumper/maintainer will determine if your tank needs to be pumped.

1	tank needs to be pumped.
	Tank capacity ÷ (# of occupants X 50 Gallons/day) = # of days between cleaning
	OR
	Within 24 hours of alarm signal
S	ystem Designer: check every days My tank needs to be emptied
L	ocal Government: check every days every days
Seasc	nally
	Monitor alarm daily – make sure the alarm has not signaled. Alarms signal when your holding tank is nearly full; contact your maintainer.
0	Measure and note your average daily water usage on page 5. Conserving water saves you money!
۵	Leaks. Check (listen, look) for leaks in toilets and dripping faucets. Repair leaks promptly.
Annua	ally
Q	Establish a contract for tank cleaning services with a state licensed maintenance business.
	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.
٥	Water conditioning devices. See Page 5 for a list of devices. When possible, discharge clear water sources to another location. Program the recharge frequency based on water demand (gallons) rather than time (days). Recharging too frequently will result in increased pumping costs.
٥	Review your water usage rate. Review the Water Use Appliance chart on Page 5. Discuss any major changes with your pumper/maintainer.
During	geach visit by a pumper/maintainer
۵	Ask if your pumper/maintainer is licensed in Minnesota.
۵	Make sure that your pumper/maintainer has clear access to the holding tank and completely empties the tank
	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 Holding Tank Systems



Professional Management Tasks

These are the operation and maintenance activities that a pumper/maintainer performs to help ensure

long-te checkli	erm performance of your system. Professionals should refer to the O/M Manual for detailed sts for tanks, pumps, alarms and other components. Call 800-322-8642 for more details.
	Written record provided to homeowner after each visit.
Plumbi	ing/Source of Wastewater
Q	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 frequency of maintenance.

Holding Tanks

- name Maintenance hole 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.

Review and document water usage rates with homeowner.

- ☐ Inspection pipes. Replace damaged caps.
- ☐ Alarm. Verify that the alarm works and that there is at least 25% reserve capacity.
- ☐ End of year seasonal property pumping. Remind homeowner of most frequent causes of tank and building sewer freeze-ups. Ensure that there are no "micro-sources" of water such as a high efficiency furnace or other dripping devices. Determine a logical winter water use plan that will not result in need for emergency visit(s).

All other components – inspect as listed here:	

Septic System Management Plan For Holding Tank Systems



Water-Use Appliances and Equipment in the Home

Appliance	Impacts on Holding Tank	
		Management Tips
Garbage disposal	Uses water and increases pumping	 Use of a garbage disposal is not recommended.
	frequency and expense.	Minimize garbage disposal use. Compost instead.
Washing machine	Uses water and increases pumping frequency and expense.	 Choose a front-loader or water-saving top-loader, these units use less water than older models. Wash only full loads.
		Do laundry off site.
Dishwasher	Uses water and increases pumping frequency and expense.	Wash only full loads.
Large bathtub (whirlpool)	Uses water and increases pumping frequency and expense.	Take short showers to conserve water.
Clear Water Uses	Impacts on Holding Tank	Management Tips
High-efficiency furnace	 Drip may result in frozen pipes during cold weather. 	Re-route water into a sump pump or directly out of the house. Do not route furnace recharge to your holding tank.
Water softener Iron filter	 Uses water and increases pumping frequency and expense. 	These sources produce water that is not sewage and should not go into your holding tank.
Reverse osmosis		Reroute water from these sources to another outlet, such as a dry well, drain tile or old drainfield.
Surface drainage Footing drains	 Uses water and increases pumping frequency and expense. 	When replacing, consider using a demand-based recharge vs. a time-based recharge.
armino		Check valves to ensure proper operation; have unit serviced per manufacturer directions

Maintenance Log

Track maintenance activities here for easy reference. See list of management tasks on pages 3 and 4.

Activity	Date accomplished/measured water usage	-
Check daily for a period of time and weekly o	nce average use is determined:	
Water usage rate (gallons per day)		
Leaks: check for plumbing leaks		
Annually:		
Establish and maintain contract for holding tank pumping services		
Water use appliances – review use		

Septic System Management Plan For Holding Tank Systems



Wa	ter Meter Reading an	d Tank Evacuation So	chedule		
Date	Water Meter Reading (in gallons)	Tank Contents Removed?	Total Gallons Removed		
Notes:					
Mitigation/corrective ac	tion plan:				
"As the owner of this SSTS, I underst utilizing the Management Plan. If rec necessary corrective actions.	and it is my responsibility to properly quirements in this Management Plar	operate and maintain the sewag are not met, I will promptly notif	e treatment system on this property, y the permitting authority and take		
Property Owner Signature			ate		
Management Plan Prepare	Ce	Certification # 6536			
Permitting Authority: St.	Louis Co				

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SSTS Construction Permit Application Subsurface Sewage Treatment System St. Louis County, MN

	Find your Parcel ID#(s) on you	r Property Ta	x Statement in the upper right of	corner (Property ID).			
Parcel ID #(s):	Of at MAAM'2CION	scountymn	.gov and click on County Land	Explorer			
	260 - 0028 - 00050	#:		#: -	_		
Parcel ID #(s):	P A	#:		#: -	-	·	
Check here to requ	est a 911 address number and sign f	for this site.	Information at: www.stlouiscou	mtymn.gov/departments-a	ı-z/sherii	f/emer	gencv
Applicant Name (p	roperty owner)		Applicant Name (if other	r than owner)			
Site Address			City	MN	Zip		
Acreage:			Township		т		1
-	Lot Size:		Township Name:		Sec	Twn	Rge
Legal Description or F	Plat Name/Block #/Lot #:				<u> </u>		1
OWNER'S CONTAC	CT INFORMATION:						
Send the Permit by: [☐ Mail; or ☐ Email address:			Other:			
Name (if different tha	n above):		Primary Phone:	Seconda	ry Phon	e:	
Mailing Address (if dif	ferent than above)						
(,, 1,,			City	ST	Zip		
PERMIT APPLICAT	ION IS FOR:						
☐ New SSTS	✓ Replacing the Existing SSTS.	Why: def	. failure	✓ Point of S	Sale Red	uirem	ent
✓ Holding Tank	☐ Component Addition or Repl	lacement	☐ Greywater <u>without</u> Pr				
☐ Privy (Outhouse)	Privy & Greywater without	Pressure	☐ SSTS Variance	☐ Commer			
SITE INFORMATIO	N: (Check all that apply)	TO THE RESIDENCE OF THE PARTY O				1744 <u>(257 d</u> a 1880)	
Yes 🗸 No Ha	s this parcel been divided recently?	Or in the pro	ocess of being divided? When:				
/	this project within 1,000 ft of a lake			Gquagama			
	he property connected to a CIC (Cor				is Applic	ation.	
	his serving multiple dwellings sharin						
☐ Yes ✔ No Ist	his leased property? If yes, you mu	st obtain & a	ittach the Lessor's written autho	rization for this project.	······································		
Leased Fro		Land & Mine		☐ US Forest Service	□ ot	her	
COMPLETE NEXT PA	AGE: (Be sure to sign and da	te, then s	ubmit this form with the p				
✓ Office Use Only ∀	Fees are payable to St. Loui			Allendarina ha Mandajir garantikan hinak daga saman sapinga kilang bendaran saman. Pilikipah atlasi	-		AN POLICE MANAGEMENT
mt Paid Pa	aid by	- woulty Al		Permit #			
	sh Check #:		Date RIO				
ecd By] Mail 🔲 IP						



SSTS Construction Permit Application

Subsurface Sewage Treatment System St. Louis County, MN

Licensed Business or Certified Indiv (Privies do not require a licensed designe	idual Nar er)	ne: Peters	on Sept	ic Desigr	and Ins	spection L	LC	Lic. # 23	67	Cert. # 65:	36
Designer's comments to Onsite Wast	ewater S	taff regard	ing this	permit a	pplicatio	n:					·
Water Source Proposed Wel					The state of the s		A Company of the Comp				
Thand Car					rried	☐ Surface/Lake Water ☐ Municipal					
Well Type ☐ Sandpoint ✓ Drilled ☐ Du		☐ Dug	ug Well Depth Ft:		Cased Depth Ft:			Unique Well #:			
The number of people who will be using this system:											
Building Type and Water Uses Check all that apply	# of Bdrms	Seasonal Use Only	PLBG	Bsmt PLBG	Garb Disp	Clothes Wshr	Dish Wshr	Water Condr	Furnace w/Hum	Bathtub > 40 gal	GSP
☐ Single Family											
☐ Multi-Family											
✓ Cabin or RV	2	✓	1	1		1					
☐ Garage with Bedroom(s) ☐ Sink ☐ Shower ☐ Toilet											
☐ Guest House											
☐ Bunk House											
☐ Other:											
☐ Sauna											
Bdrms = bedrooms PLBG = plumbing Bsmt PLBG = basement plumbing Garb Disp = garbage disposal Wshr – washing machine Condr = water conditioner Furn w/Hum = self-cleaning humidifier in furnace GSP = sewage grinder pump OWD-onsite wastewater division Other information to be considered for this application:						ivision					
◆ APPLICANT SIGNATURE:							- The Paper Glass			110 March 11 - 200 cr par 0	

FEE:

DATE:

APPLICANT AGREEMENT: By submitting this application, I certify and agree that I am the owner or the authorized agent of the owner of the above property, and that all uses will conform to the provisions of St. Louis County. I further certify and agree that I will comply with all conditions imposed in connection with the approval of the application. Applicants may be required to submit additional property descriptions, property surveys, site plans, building plans and other information before the application is accepted or approved. Intentional or unintentional falsification of this application or any attachments thereto will make the application, any approval of the application and any resulting permit invalid. I authorize St. Louis County staff to inspect the property to review the application and for compliance inspections. Furthermore, by submitting this application, I release St. Louis County and its employees from any and all liability and claims for damages to person or property in any manner or form that may arise from the approval of the application or any related plans, the issuance of any resulting permit or the subsequent location, construction, alteration, repair, extension, operation or maintenance of the subject matter of the application.

Duluth Office:

Planning & Community Development Onsite Wastewater Division **Duluth Government Services Center** 320 W 2nd St, Suite 301 Duluth, MN 55802 Phone 218-725-5200

www.stiouiscountymn.gov/septic

Virginia Office:

Planning & Community Development Onsite Wastewater Division Virginia Government Services Center 201 So 3rd Ave W Virginia, MN 55792 Phone 218-749-0625

www.stlouiscountymn.gov/septic