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**CITY OF FIFTY LAKES**  
**PLANNING COMMISSION/BOARD OF ADJUSTMENT**

**AGENDA**

November 28, 2023 6:00 pm

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*The meeting is being recorded and audio will be posted on the city website. Anyone wishing to speak please raise your hand until recognized by the chairperson then state your name and residence.*

1. Call to Order
2. Roll Call
3. Additions or Deletions to Agenda
4. Public Hearings
  - a. Variance Application V-03-23 to construct a drainfield within the drainfield to dwelling setback requirement.  
Property Location: 16969 North Eagle Lake Road  
Applicants/Property Owners: Michael & Joan Petersen
  - b. Ordinance Amendment 03-2023 to modify Section 2.06, "Right of Inspection," Section 4.03, "Land Use Tables," Section 6.05, "Plat Design Standards," Section 9.06, "Parking, Storage and Usage of Recreational Vehicles," and addition of Section 9.20, "Transient Food Unit." Applicant: City of Fifty Lakes.
5. Open Forum
6. Approval of Minutes
  - a. October 24, 2023
7. New Business
8. Old Business
9. Council Liaison Report: Gary Staples
10. P&Z Administrator's Report
11. Adjourn

CITY OF FIFTY LAKES  
NOTICE OF PUBLIC HEARING

TO WHOM IT MAY CONCERN: Notice is hereby given the City of Fifty Lakes Planning Commission/Board of Adjustment will convene on Tuesday, November 28, 2023 at 6:00 p.m. at City Hall to conduct the following public hearings:

Variance Application V-03-23 to construct a drainfield (component of a subsurface sewage treatment system) within the dwelling to drainfield setback requirement. The subject property is located at 16969 North Eagle Lake Road. PIN 22130559. The applicant/property owners are Michael & Joan Petersen.

Ordinance Amendment 03-2023. The proposed amendments modify Section 2.06, "Right of Inspection" regarding inspection of property by city staff, mayor and city council members and planning commission/board of adjustment members, modify Section 4.03, "Land Use Tables" to include "recreational vehicle" and "transient food unit," modify Section 6.05, "Plat Design Standards," requiring and increasing park dedication fees for all new plats, modify Section 9.06, "Parking, Storage and Usage of Recreational Vehicles," regarding permitting and performance standards for storage, placement and usage of recreational vehicles, and adds Section 9.20, "Transient Food Unit," creating permitting requirements and performance standards for transient food units. A full copy of proposed modifications will be available at city hall one week prior to the meeting. Applicant: City of Fifty Lakes.

All interested persons are invited to attend these hearings and be heard or send written comments to City Hall at PO Box 125, Fifty Lakes, MN 56448 or via email at [pz@fiftylakesmn.com](mailto:pz@fiftylakesmn.com). A staff report is made available at city hall typically one week before the scheduled meeting.

Justin Burslie, Zoning Administrator  
City of Fifty Lakes

CITY OF FIFTY LAKES  
BOARD OF ADJUSTMENT  
NOTICE OF PUBLIC HEARING  
November 28, 2023 @ 6:00 P.M.

TO WHOM IT MAY CONCERN:

The following will be the subject of a public hearing on Tuesday, November 28, 2023 beginning at 6:00 P.M at Fifty Lakes City Hall.

**Hearing:** Variance Application V-03-23 to construct a pressure bed (subsurface sewage treatment system component) within the dwelling to pressure bed setback requirement.

**Property Owners/Applicants:** Michael & Joan Petersen

**Property Description:** The subject property is located at 16969 North Eagle Lake Road. PIN 22130559.

A map identifying the subject property is on the reverse side of this notice.

**Purpose:** The applicant is requesting a variance to construct a 10' x 37.4' pressure bed 16.5' (20' required) from an onsite single family dwelling.

**Property Owners Please Note:** Please share this information with your neighbors in the event that any property owner has been overlooked or is not contained in our records.

If you wish to provide written comments, please email to [pz@fiftylakesmn.com](mailto:pz@fiftylakesmn.com) or mail to PO Box 125, Fifty Lakes, MN 56448.

The staff report regarding the request will be available on the city website approximately one week before the meeting.

Justin Burslie (Sourcewell)  
Zoning Administrator  
City of Fifty Lakes

The subject property is located at: 16969 North Eagle Lake Road:





## STAFF REPORT

**Application:** Variance to Construct a Drainfield within the Dwelling to Drainfield Setback Requirement

**Property Owner/Applicant:** Michael & Joan Petersen

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**Background Information:** The applicants are requesting a variance to construct a 10' x 37.35' pressure bed 16.5' from the dwelling (20' required) on the property located at 16969 North Eagle Lake Road. The proposed drainfield will be larger than the existing drainfield and constructed in the same location. The proposed drainfield will be 10' from the east property line and 10' from the road right-of-way. The SSTS designer indicated the proposed location of the drainfield may not be moved to the north due to topography.

The subject property is 13,320 sf and is zoned "Shoreland Residential" - Eagle Lake (Recreational Development). The property is served by a subsurface sewage treatment system (located north of the dwelling) and a well.



The impervious surface coverage with the proposed improvements is 8.5% (15% allowed). The proposed use will not generate additional stormwater runoff.

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**Applicable Regulations:** The following ordinance regulations apply to this request:

3.07 Variances

3.07.06 Variances may be granted upon considering the following:

- a. Will granting the variance put property to use in a reasonable manner not permitted by the zoning ordinance? and
- b. Does the property have unique circumstances that were not created by the landowner? and
- c. Will the variance, if granted, alter the essential character of the locality? and
- d. Will the variance, if granted, be consistent with the comprehensive plan and be in harmony with the purpose and intent of the City of Fifty Lakes ordinances? and
- e. Are economic considerations alone the reason for requesting a variance?

**5.0 LAND USE PROVISIONS**

**5.01 *Lot Area, Width, Buildable Area and Impervious Surface Standards***

**Table 5.01.01 Shoreland Residential District (SR) Lot Area, Width, Buildable Area, and Impervious Surface Standards**

Shoreland Residential District (SR) Lake Classification	Min. Lot Area (ft <sup>2</sup> )	Min. Lot Width	Min. Buildable Area (ft <sup>2</sup> )**	Max. Impervious Coverage ( %)
<b>General Development</b>				
Recreational Development -Riparian	40,000	150	25,000	15

**8.0 PROVISIONS FOR MANAGEMENT OF SHORELAND AREAS**

8.02 Placement, Design, and Height of Structures

8.02.01 Placement of Structures on Lots. Structures and facilities must be located to meet all setbacks. Structures shall be located as follows:

- i. Structure and On-site Sewage System Setbacks (in feet) from Ordinary High Water Level (see required setbacks for Special Protection zone)

Classes of <u>Public Waters</u>	<u>Setbacks</u>	
	<u>Structures</u>	<u>Sewage Treatment System</u>
<b>Lakes</b>		
Recreational Development	100	100

8.02.02 **Additional Structure Setbacks.**

- b) The following additional structure setbacks apply, regardless of the classification of the waterbody:

**Table 8.02.02 Additional Structure Setbacks**

<b>Setback from:</b>	<b>Setback (in feet)</b>
Subsurface Sewage Treatment System—Drainfield (to road right-of-way)	0
Property Line	10

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**Staff Findings:** Staff provides the following findings of fact for consideration:

1. The subject property is located at 16969 North Eagle Lake Road and is zoned “Shoreland Residential” (Eagle Lake- Recreational Development).
2. The variance request is to construct a 10’ x 37.35’ pressure bed located 16.5’ from the dwelling (20’ required) on the subject property.
3. The subject property contains a limited building envelope. Any modifications to the SSTS and expansion of structures on the subject property requires a variance.
4. The city’s contracted SSTS inspector (Greg Kossan- License #2776) has approved the SSTS design pending variance approval.
5. The existing and proposed impervious surface coverage of the property is 8.5% (15% allowed.)
6. The DNR has been notified of the request and has not provided comments since the request is not related to deviations to the Shoreland Rules.
7. The MPCA has been notified of the request and has not provided written comments.
8. Will granting the variance put property to use in a reasonable manner not permitted by the zoning ordinance?
  - a. Yes, \_\_\_\_\_.
  - b. No, \_\_\_\_\_.
9. Does the property have unique circumstances that were not created by the landowner?
  - a. Yes, \_\_\_\_\_.
  - b. No, \_\_\_\_\_.
10. If the variance is granted, will the essential character of the locality remain consistent?
  - a. Yes, \_\_\_\_\_.
  - b. No, \_\_\_\_\_.
11. Will the variance, if granted, be consistent with the comprehensive plan and be in harmony with the purpose and intent of the City of Fifty Lakes ordinances?
  - a. Yes, \_\_\_\_\_.
  - b. No, \_\_\_\_\_.

12. Has the variance request been made based on reasons other than economic considerations alone?
  - a. Yes, the request has been made on factors other than economic considerations.

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**Board of Adjustment Direction:** The Board of Adjustment can approve the request, deny the request or table the request if additional information is needed. If the motion is for approval or denial, findings of fact should be cited.

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**Staff Recommendation:** If the board of adjustment wishes to approve the variance request staff recommends no conditions of approval.



# CITY OF FIFTY LAKES

## PLANNING & ZONING

40447 TOWN HALL ROAD, BOX 125, FIFTY LAKES, MN 56448

Phone: (218) 763-3113 Fax: (218) 763-5113

# VARIANCE APPLICATION REQUIREMENTS AND INFORMATION

**Definition of a Variance** A legally permitted deviation as provided in MNSS 462.357, subd. 6, from the provisions of the Land Use Ordinance as deemed necessary by the Board of Adjustment upon the showing of practical difficulties in complying with the provisions of the Land Use Ordinance, provided the deviation from the Land Use Ordinance with any attached conditions will still be in harmony with the general purposes and intent of the Land Use Ordinance and the variance is consistent with the City's Comprehensive Plan. Refer to Fifty Lakes Ordinance Section 3.07.

A **Certificate of Survey** signed by a licensed land surveyor **MUST** be submitted for all Variance applications, unless waived by the planning and zoning administrator. The survey requirements are attached on a checklist.

### The following information needs to be submitted with the application:

- Certificate of Survey: (2) copies of the original survey (sheet not to exceed 22"x34") and (3) 11"x17" copy and (1) electronic copy.
- Signed application form
- Non-refundable application fee
- Building elevations (each side) sheet not to exceed 11" x 17"
- Building height shall be shown on building elevations as defined in Fifty Lakes Ordinances, sheet not to exceed 11" x 17"
- Floor plans (each level) sheet not to exceed 11" x 17"
- Certificate of Compliance or Septic System Design and Evaluation
- Completed questionnaire

**PLEASE NOTE:** Applications **WILL NOT** be processed unless all required information for a Variance is submitted and fees are paid by the application deadline date. We cannot accept the application if any of the above items has not been met, which will delay your start time for your project. If you have any questions please feel free to ask **PRIOR** to the application deadline; a question now may save time and money later.

CITY OF FIFTY LAKES

Project Completed

ID No: V-03-23

40447 Town Hall Road / Box 125, Fifty Lakes, MN 56448

218-763-3113

www.fiftylakesmn.com

VARIANCE APPLICATION

RECODE: 22130559 INACTIVE:  RECODE2: \_\_\_\_\_  
 LAST NAME: Peterson FIRST NAME: Michael & Joan  
 ADDRESS: 3200 Hilldale Ave NE PHONE: \_\_\_\_\_  
 CITY: St. Anthony, MN STATE: MN ZIP: 55418  
 ADDRESS 2: \_\_\_\_\_  
 CITY 2: \_\_\_\_\_ STATE 2: \_\_\_\_\_ ZIP 2: \_\_\_\_\_  
 OWNER: \_\_\_\_\_

LOCATION RECODE/PARCEL NUMBER: 22130559  
 LEGAL DESCRIPTION: \_\_\_\_\_

TOWNSHIP: 138 RANGE: 27 SEC: 13 QTRSEC: \_\_\_\_\_ QTRQTRSEC: \_\_\_\_\_  
 PLAT: \_\_\_\_\_  
 BLOCK: \_\_\_\_\_ LOT: 4  
 LAKE NAME: EAGLE LAKE NUMBER: \_\_\_\_\_ STREAM NAME: \_\_\_\_\_  
 ACREAGE: .3058 FIRE NUMBER: 16969 ZONING: \_\_\_\_\_  
 DIRECTIONS: \_\_\_\_\_  
 HOUSE NUMBER: 16969 STREET NAME: NORTH EAGLE LAKE ROAD

IS THE PROPOSED VARIANCE IN THE SHORELAND AREA?  Yes  No

SPECIFICALLY STATE THE NATURE OF VARIANCE REQUESTED:

*variance for septic update installation*

EXPLAIN THE PURPOSE OF YOUR REQUEST AND DESCRIBE THE PRACTICAL DIFFICULTY:

*there is a small part of pressure bed that is 3 1/2 ft too close to cabin.*

All property owners within 350 feet of subject property shall be notified.

A Certificate of Survey (C of S) may be required for a variance application. The C of S must show all improvements including placement of sewage treatment system, pertinent distances to all lot lines, ROW's, distances to neighbors' adjoining wells, septic systems and main structures. Include planned improvement(s) and two-foot elevation contours. Further information, including preliminary floor plan with elevations, wetlands, bluffs, etc. may be required. Any additional costs the City incurs for any reason shall be reimbursed by applicant.

CITY ACTION

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONDITIONS: \_\_\_\_\_

RATIONALE: \_\_\_\_\_

NOTES: \_\_\_\_\_

APPLICATION DATE: 10-09-2023  
 VARIANCE ID: V-03-23 FEE: 450.00  
 DATE FEE PAID: 10/27/23  
 FEE PAID BY:  Check # 5987  Cash  
 DATE APPROVED: \_\_\_\_\_  
 EXPIRATION DATE: \_\_\_\_\_

Signed Michael J Peterson Applicant  
 Signed [Signature] City Clerk or authorized agent  
 Signed \_\_\_\_\_ Zoning Administrator or authorized agent

**Applicant or his/her agent should provide written responses and be prepared to discuss the following:**

1. How will reasonable use of the parcel be deprived if the Variance is not granted?

We would then be unable to update our septic system

2. What are the unique circumstances of the parcel size, shape, topography or other characteristics that make strict interpretation of the Ordinance impractical?

Both the road setback and setback from the structure of the (seasonal) residence cannot be totally obtained.

3. Describe the character of the locality. How is this proposal consistent with the locality?

Most of our other cabin neighbors have similar septic systems on their property adjacent to North Eagle Lake Road.

4. How is granting this Variance consistent with the intent of the City of Fifty Lakes Land Use Ordinance?

We are still following all the other setback requirements as well as updating to a newer, better septic system.

5. Are economic considerations alone the reason for requesting a variance?

No. The variance is requested solely based on the unique design necessary for the property.

6. What other options, either conforming or non-conforming, have been considered and why were those options not chosen?

This is the best design for the property, there is no room for a mound-system.

7. Please include any other comments pertinent to this request.

# CITY OF FIFTY LAKES

## PLANNING AND ZONING COMMISSION

### CERTIFICATE OF SURVEY CHECKLIST FOR A VARIANCE

*This checklist is to be used by the Land Surveyor as guidance when preparing a Certificate of Survey for submittal. The existing conditions information shall be located by field observations during the survey and shown on the Certificate of Survey. This information shall be included for the property surveyed. Proposed conditions must be prepared and drawn on survey by licensed surveyor or civil engineer.*

### EXISTING CONDITIONS AND REQUIREMENTS

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- 1. Legal Description
- 2. Boundary Monuments shall be visible
- 3. Location and perimeter dimensions, to the nearest foot, of all structures, including principal buildings, outbuildings, sheds, decks, fences and signs
- 4. Location of the septic system(s)
- 5. Location of the well(s)
- 6. Location of retaining wall(s)
- 7. Location of visible utilities including poles, pedestals, transformer boxes, etc
- 8. Location of existing ingress, egress drives and parking areas
- 9. Location of and dimensions of all existing easements affecting the property
- 10. Location and differentiation of all other impervious areas, such as, sidewalks, patios, stairways and lifts
- 11. Impervious surface calculations: The total area, in square feet and as a percentage of the total lot area, shall be shown for both the existing and proposed impervious surfaces on the Property
- 12. Elevations to depict a 2-foot contour interval with spot elevations to show the lowest floor elevation of all structures and the lowest adjacent grade of all structures to the nearest tenth of a foot
- 13. Elevation of top of foundation (top of block)
- 14. Location of all wetlands on the property; Wetlands shall be delineated by a Certified Wetland Specialist
- 15. Location of the Ordinary High Water Level (OHWL) line, if the property adjoins public water. This line shall be located by elevation and tied to the boundary lines of the property
- 16. A Bench Mark shall be established on the Property
- 17. Location of any visible encroachments from or onto the property
- 18. Location and width of adjoining public streets or public and private road easements
- 19. Location of significant vegetation that would be affected by the application
- 20. The current zoning classification of the Property and adjoining properties – verify zoning classification with City of Fifty Lakes.
- 21. Building setback lines in accordance with current City Ordinances
- 22. The E911 address and the Tax Property Identification Number (PID) for the Property shall be shown on the Certificate of Survey
- 23. North Arrow, Basis of Bearings, Vertical Datum, Written Scale and Bar Scale shall be shown; The Scale of the drawing shall be of a size to legibly depict all items required; More than 1 sheet may be used



## PROPOSED CONDITIONS AND REQUIREMENTS

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1. Location, dimensions, width and purpose of proposed easements that affect or serve the Property.
2. Location and dimensions of proposed structures, including principal buildings, outbuildings, sheds, decks, fences and signs.
3. Location of proposed septic system (2 soil borings per proposed lot)
4. Elevation of top of foundation (top of block) and lowest floor elevation
5. Location of proposed retaining wall(s)
6. Location and dimensions for proposed ingress, egress and parking areas
7. Stormwater management: Flow direction of runoff water and location for storage of runoff water with runoff calculations meeting drainage and stormwater management requirements of the City Ordinance
8. Proposed changes to existing contours.
9. Impervious surface calculations: The total area, in square feet and as a percentage of the total lot area, shall be shown for the proposed changes.
10. Other items that are deemed significant and that could affect the property or adjoining properties by proposed application as deemed necessary by the Zoning Administrator, Planning and Zoning Commission, and/or City Council.



OCTOBER 9, 2023

DEAR JUSTIN:

PLEASE FIND OUR VARIANCE APPLICATION AND PERINENT RELATED DOCUMENTS FOR OUR PROPOSED UPDATED SEPTIC SYSTEM.

I BELIEVE YOU HAVE DIGITAL COPIES/ACCESS TO BOTH OUR SURVEY AND THE SEPTIC DESIGN AS WELL.

I HAVE INCLUDED MY QUESTIONS AND AMY WANNBO'S RESPONSE ABOUT WHY SYSTEM CANNOT OR SHOULD NOT BE MOVED TO THE NORTH THE 3 1/2 FEET.

JOAN AND I WILL BE OUT OF THE ARE 10/10/23 TO 10/21/23 BUT WILL HAVE LIMITED ACCESS TO EMAIL, IF YOU REQUIRE ANYTHING ELSE BEFORE THE APPLICATION DEADLINE OF 10/30/23 PLEASE LET US KNOW. (mjpdds @ aol.com)

I ASSUME THE CITY OR THE CONTRACTOR WILL CONTACT THE DNR AND MPCA?

THANK YOU AGAIN FOR ALL YOUR HELP,

MIKE AND JOAN PETERSEN

## Crow Wing County Pressure Bed/Trench with Pump Design

Property Owner: Mike & Joan Petersen Date: 9/2/2023

Mailing Address: 3200 Hilldale Ave NE

City: St. Anthony State: MN Zip: 55418

Home Phone Number: \_\_\_\_\_ Cell: \_\_\_\_\_

Site Address: 16959 N. Eagle Lk. Rd.

City: Fifty Lakes State: MN Zip: \_\_\_\_\_

Driving directions if no address issued: \_\_\_\_\_

Legal Description: Pt. of GL 4 sec 13 desc as follows; comm at the point on the S line of said Lot 4

Sec: 13 Twp: 138 Range: 27 Twp Name: Fifty Lakes

Parcel Number: 22130559

Lake/ River: Eagle Lake

Lake/River Classification: RD

### Flow Data

Number of Bedrooms: 3

Dwelling Classification: I

System Type: III

GPD: 450

Estimated Flow in Gallons per Day (GPD)			
Bedrooms	Class I	Class II	Class III
2	300	225	180
3	450	300	218
4	600	375	256
5	750	450	294
6	900	525	332
7	1050	600	370
8	1200	675	408

### Wells

Deep Well: Existing Deep

Shallow Well: None

Wells to be sealed (if applicable)? N/A

### Setbacks

Tank(s) to: Well 50+

Drainfield to: Well 50+

Sewer Line to well: 50' Existing

House 10'

House 16.5' - 20'

Air Test: No

Property Line 10'

Property Line 10'

**Additional System Notes and Information:** Pump & remove tank. Excavate out existing drain field & replace with clean sand. Attached survey with the SSTS laid out on it. Install Infiltrator tanks;

1M-1530 & 1M-540 & 10'x37.35' pressure bed. The pressure bed will be installed on a slope, the side closest to the home will have 12" more

Designer Name: Amy A Wannebo

License Number: 1840

Address: 37753 Ox Lake Landing

City: Crosslake

State: MN

Zip: 56442

Home Phone Number: \_\_\_\_\_

Cell: 218-851-1563

E-Mail Address: amy.wannebo@gmail.com

Designer Signature: 

Date: 9/2/2023

# Crow Wing County Pressure Bed/Trench with Pump Design

Parcel Number: 22130559 Property Owner: Mike & Joan Petersen Date: 9/2/2023

Designer's Initials: AAW

## Tank Sizing

- A. Septic Tank Capacity: 1537 Gallons  
 Tank Type: 2 Compartments Filter: No  
 Garbage Disposal/Basement Lift Station: No Disposal or Lift
- B. Pump Tank Capacity: 552 Gallons (7080.2100)  
 a. Alarm Type: Electric

Septic Tank Capacity		
Bedrooms	Minimum	GD/BL
3 or less	1,000	1,500
4 or 5	1,500	2,250
6 or 7	2,000	3,000

## Soils

- C. Depth to Restricting Layer: 7 ft.  
 D. Native SSF: 0.83  
 (Perc. Rate [Optional]      MPI)

Absorption Width Ratio Table		
Texture	SSF	AWR
Sand	0.83	1.00
Fine Sand	1.67	2.00
Sandy Loam	1.27	1.52
Loam	1.67	2.00
Silt Loam	2.00	2.40
Clay Loam	2.20	2.67

**\*\*Enter GPD next to the type of system\*\***

## Rock Trenches

- E. 6 in. Trench Depth      GPD × D = 0.0 sq. ft. Cubic Yards of Rock: 0.0 yds<sup>3</sup>  
 F. 12 in. Trench Depth      GPD × D × .8 = 0.0 sq. ft. Cubic Yards of Rock: 0.0 yds<sup>3</sup>  
 G. 18 in. Trench Depth      GPD × D × .66 = 0.0 sq. ft. Cubic Yards of Rock: 0.0 yds<sup>3</sup>  
 H. 24 in. Trench Depth      GPD × D × .6 = 0.0 sq. ft. Cubic Yards of Rock: 0.0 yds<sup>3</sup>  
 I. Divide (E-H) by Trench Width for lineal feet: 0.0 ÷ 3 = 0.0

## Chamber Trenches

- J. Brand:      Dimensions of one chamber (L x W): 1.0 ft. × 3.0 ft.  
 K. 6-11 in. Chamber Depth      GPD × D = 0.0 sq. ft.  
 L. 12 in. Chamber Depth      GPD × D × .8 = 0.0 sq. ft.  
 M. Select from (K-L) if installing Chamber Trenches: 0.0  
 N. Divide (M) by Trench Width for lineal feet: 0.0 ÷ 1 = 0.0 Lineal Feet  
 O. Total Chambers Needed (Round Up): 0.0 Chambers

## Pressure Beds

- P. Pressure Bed 450 GPD × D = 373.5 sq. ft.  
 a. Bed Dimensions 10.0 ft. × 37.4 ft.  
 b. Cubic Yards of Rock Bed Length × Bed Width × Rock Depth 1 ft. ÷ 27 = 13.8 yds<sup>3</sup>

## Additional System Notes and Information: Pump & remove tank. Excavate out existing

drain field & replace with clean sand. Attached survey with the SSTS laid out on it. Install Infiltrator tanks;  
 IM-1530 & IM-540 & 10'x37.35' pressure bed. The pressure bed will be installed on a slope, the side closest to the home will have 12" more  
 of cover than the opposite side. Remove any necessary trees & the chain link fence. The red line shows 20' setback to house. 24' in length of the pressure bed

*doesn't meet the 20' setback to the house with the worst  
 Point being 16.5' to house the distance between the pressure  
 bed & the house increase as you move along the bed to the ENE. Asking for reduction to  
 set back for this small portion. All other setbacks*

revised 4/9/2018

# Crow Wing County Pressure Bed/Trench with Pump Design

Parcel Number: 22130559 Property Owner: Mike & Joan Petersen Date: 9/2/2023

## Determine Pump Capacity

1) Gravity Distribution Pump Capacity Range: 10 - 45 GPM

\*Skip to Pump Head Requirements if pumping to gravity

2) Pressure Distribution:

a) Number of laterals: 3

*Page 1 of 2*

b) Lateral Size: 1.5 in.

c) Perforation spacing: 3.0 ft.

d) Check Table 4 to see the maximum number of perforations per lateral.

3) Lateral Length (choose):

a) End manifold: rock bed length: 0.0 - 2 ft. = -2.0 ft.

b) Center manifold: rock bed length /2: 0.0 - 1 ft. = -1.0 ft.

c) Choose 3a or 3b: 35.4 ft.

4) Total Perforation Determination:

a) Length (3c) ÷ Spacing (2c): 3.0 + 1 = 12.8 Perforations / Lateral

b) (4a): 12.8 × (2a): 3 = 38.4 Total Number of Perforations

c) Select perforation discharge from Table 1 = 0.74 GPM/Perf.

d) (4b): 38.4 × (4c): 0.74 GPM/Perf. = 28.4 GPM

## PUMP HEAD REQUIREMENTS

5) Elevation difference:

a) Elevation difference between pump and point of discharge 6.0 ft.

b) If pumping to a pressure distribution system, (5a) 6.0 + 5 = 11.0 ft.

c) Choose 5a if pumping to gravity or 5b for pressure: 11 ft.

6) Friction loss:

a) Select a value from Table 2: 1.55 ft. / 100 ft. of pipe

b) Pipe length to drainfield: 20 ft. × 1.25 = 25.0 ft.

c) (6a): 1.55 × (6b): 25.0 ÷ 100 = 0.4 Total Friction Loss

7) Drainback:

a) Actual Pipe length 25 ft. × 0.17 gal/ft. (Table 3) = 4.3 gal

8) (5c): 11 ft. + (6c): 0.4 ft. = 11.4 Total Head Required

9) Minimum Pump Size 28.4 GPM (4d) & 11.4 ft. of dynamic head (8)

Designer's Initials: AAW

Table 1		
Perforation Discharge (GPM/perf.)		
Ft. of Head	7/32 Perf Diameter	1/4 Perf Diameter
1.0	0.56 in.	0.74 in.
2.0	0.80 in.	1.04 in.

Table 2			
Friction Loss in Plastic Pipe			
Flow (GPM)	1.5"	2"	3"
20	2.47	0.73	0.11
25	3.73	1.11	0.16
30	5.23	1.55	0.23
35	6.96	2.06	0.30
40	8.91	2.64	0.39
45	11.07	3.28	0.48
50	13.46	3.99	0.58
55		4.76	0.70
60		5.60	0.82
65		6.48	0.95
70		7.44	1.09

Use 1.0 for single homes, 2.0 for everything else

Table 3	
Volume of Liquid in Pipe	
Pipe Diameter	Gal/Ft.
1.25 in.	0.078
1.5 in.	0.11
2.0 in.	0.17

Table 4			
Max Perforations/Lateral			
Perf. Spacing	1.25" Pipe	1.5" Pipe	2" Pipe
2.5 ft.	14	18	28
3 ft.	13	17	26
3.3 ft.	12	16	25
4 ft.	11	15	23
5 ft.	10	14	22



# Crow Wing County Pressure Bed/Trench with Pump Design

Parcel Number: 22130559 Property Owner: Mike & Joan Petersen Date: 9/2/2023

Designer's Initials: AAW

### Proposed Site Boring #1

Depth (in)	Texture	Coarse Frag. %	Color	Structure	Redox
0-5	MSL	<5%	10YR3/2	GR S VFR EW	n/a
5-25	COSL	<10%	10YR4/4	SGR LL	n/a
25-48	COS	<10%	10YR5/4	SGR L L	n/a
48-78	COS	<10%	10YR5/6	SGR L L	n/a
@78	ROCK				

### Proposed Site Boring #2

Depth (in)	Texture	Coarse Frag. %	Color	Structure	Redox
0-4	MSL	<5%	10YR3/2	GR S VFR EW	n/a
4-22	COSL	<10%	10YR4/4	SGR L L	n/a
22-50	COS	<10%	10YR5/4	SGR L L	n/a
50-76	COS	<10%	10YR5/6	SGR L L	n/a
@76	Rock				

### Alternate Site Boring #1

Depth (in)	Texture	Coarse Frag. %	Color	Structure	Redox

### Alternate Site Boring #2

Depth (in)	Texture	Coarse Frag. %	Color	Structure	Redox

### Soil Sizing Factors/Hydraulic Loading Rates

Perc. Rate	Texture	SSF	HLR	Perc. Rate	Texture	SSF	HLR
<0.1	Coarse Sand			16 to 30	Loam	1.67	0.60
0.1 to 5	Sand	0.83	1.20	31 to 45	Silt Loam	2.00	0.50
0.1 to 5	Fine Sand	1.67	0.60	46 to 60	Clay Loam	2.20	0.45
6 to 15	Sandy Loam	1.27	0.78	> 60	Clay Loam	****	0.24

### Description of Soil Treatment Areas

	Proposed Site		Alternate Site	
	Proposed #1: 78"	Proposed #2: 76"	Alternate #1: n/a	Alternate #2: n/a
Disturbed Areas?	Yes		n/a	
Compacted Areas?	No		n/a	
Flooding Potential?	No		n/a	
Run-on Potential?	No		n/a	
Limiting Layer Depth	Proposed #1: 78"	Proposed #2: 76"	Alternate #1: n/a	Alternate #2: n/a
Slope % and Direction	6%NNW			
Landscape Position	Shoulder			
Vegetation Types	Grass & Trees			
Soil Texture	Sand			
Soil Sizing Factor	.83			



# Crow Wing County Pressure Bed/Trench with Pump Design

Parcel Number: 22130559 Property Owner: Mike & Joan Petersen Date: 9/2/2023

Please Draw to Scale with North Arrow to top or Left Side of Page



*Click in the sketch area below to import an existing sketch (PDF or JPG format).  
Drawing tools are also available in the Comments Toolbar of Adobe Reader.*

*See next page*

### Please show all that apply (Existing or Proposed):

Wells within 100 ft. of a Drainfield	Disturbed/Compacted Areas	Access Route for Tank Maintenance
Water lines within 10 ft. of a Drainfield	Component Location	Property Lines
Drainfield Areas	OHW	Structures
Boring Locations	Lot Easements	Setbacks

### Elevations:

Benchmark Elevation: \_\_\_\_\_ Pump Elevation: \_\_\_\_\_  
Elevation of Sewer Line at House: \_\_\_\_\_ Pump Discharge Elevation: \_\_\_\_\_  
Tank Inlet Elevation: \_\_\_\_\_ Restricting Layer Elevation: \_\_\_\_\_  
Drainfield Elevation: \_\_\_\_\_

Designer Signature:  Date: 9/2/2023 License Number: 1840

**SUBMIT COMPLETED FORM**

**SSTS Management Plan required to be submitted with this design**

Minnesota Pollution Control Agency Rules Sections 7082.0600 Subp. 1. A and B, and Section 7082.0100 Subpart 3. J



# Subsurface Sewage Treatment System Management Plan

Property Owner: Michael & Joan Petersen Phone: \_\_\_\_\_ Date: 8/31/2023  
Mailing Address: 3200 Hilldale Ave NE City: St. Anthony Zip: 55418  
Site Address: 16959 N. Eagle Lake Rd. City: Fifty Lakes Zip: 56448

---

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 service provider.

System Designer: check every 36 months.  
Local Government: check every \_\_\_\_\_ months.  
State Requirement: check every 36 months.

**My System needs to be checked every 36 months.**

### Homeowner Management Tasks

- Leaks* - Check (look, listen) for leaks in toilets and dripping faucets. Repair leaks promptly.
- Surfacing sewage* - Regularly check for wet or spongy soil around your soil treatment area.
- Effluent filter* - *Inspect and clean twice a year or more.*
- Alarms* - Alarm signals when there is a problem. Contact a service provider any time an alarm signals.
- Event counter or water meter* - Record your water use.  
-recommend meter readings be conducted (choose one: Daily  Monthly  Yearly

### Professional Management Tasks

- € Check to make sure tank is not leaking
- € Check and clean the in-tank effluent filter
- € Check the sludge/scum layer levels in all septic tanks
- € Recommend if tank should be pumped
- € Check inlet and outlet baffles
- € Check the drainfield effluent levels in the rock layer
- € Check the pump and alarm system functions
- € Check wiring for corrosion and function
- € Check dissolved oxygen and effluent temperature in tank
- € Provide homeowner with list of results and any action to be taken
- € Flush and clean laterals if cleanouts exist

"I understand it is my responsibility to properly operate and maintain the sewage treatment system on this property, utilizing the Management Plan. If requirements in the Management Plan are not met, I will promptly notify the permitting authority and take necessary corrective actions. If I have a new system, I agree to adequately protect the reserve area for future use as a soil treatment system."

Property Owner Name: Michael & Joan Petersen 8/31/2023

Designer Signature:  8/31/2023

See Reverse Side for Home Owner Management Log

## Home Owner Maintenance Log

Activity	Date Accomplished
<i>Check frequently:</i>	
Leaks: check for plumbing leaks	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Soil treatment area check for surfacing	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Lint filter: check, clean if needed	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Effluent screen: if owner-maintained	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Water usage rate (monitor frequency )	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<i>Check annually:</i>	
Caps: inspect, replace if needed	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Sludge & Scum/Pump	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Inlet & Outlet baffles	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Drainfield effluent leaks	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Pump, alarm, wiring	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Flush & clean laterals if cleanouts exists	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Notes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Mitigation/corrective action plan: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Re: PETERSEN Septic Design

From: Amy Wannebo (amy.wannebo@gmail.com)

To: mjpdds@aol.com

Date: Sunday, October 1, 2023, 10:29 PM CDT

Hi - The reason that I do not recommend moving the drain field closer to the road is because the slope is steeper that way. I did explain this to Justin. Call Wannebo Excavating and Schrupp Excavating. You can easily find them on a google search.

*Amy Wannebo*

**Lakes Area Septic LLC**

37753 Ox Lake Landing

Crosslake, MN 56442

**(218) 851-1563**



On Sun, Oct 1, 2023 at 3:38 PM [mjpdds@aol.com](mailto:mjpdds@aol.com) <[mjpdds@aol.com](mailto:mjpdds@aol.com)> wrote:

Hello Amy:

We spoke with Justin at the City of Fifty Lakes and he did say we would have to go through the variance process. He thought your design should pass without any problems.

He did say the council might ask why we couldn't move the pressure bed to the north to take care of the 3 and a half feet, and thought it would be very helpful if we had a statement/letter from you as to why this would not be reasonable.

Thank you for all of your help, if this is something you could do for us and e-mail it it would be most appreciated.

On a side note, if we are replacing our septic Justin said it does not look like we need an inspection. Someone did call from Wannebo as they were out to look but we did not get an estimate from them as we were not sure if the design would go through as we had not talked to Justin yet. If this is something they could do now that would be great.

We still have not heard from the second place you recommended either, could you let them know we would like an estimate (or provide us a contact number)?

Thank you again for your help,

Mike and Joan Petersen



## septic design

From: Amy Wannebo (amy.wannebo@gmail.com)

To: mjpdds@aol.com


Date: Friday, September 15, 2023, 02:53 PM CDT

Hello

I have attached your septic design, this has been sent to the City of Fifty Lakes for their review, approval and records. I have also sent this to Wannebo Excavating & Schrupp Excavating, they will contact you directly with estimates. This design does ask for a 3.5' setback reduction to the house for a small portion of the pressure bed. There was just no way around this. After working with Chad and going over the available areas within the setbacks, this is the best plan. The City may require you go through the variance process for this reduction, you will need to ask them. This is the end of the design process on my end. Unless you want to make changes to the design or the City wants you to or you need additional site visits. Each of those items do incur additional fees beyond the normal design process. Please let me know if you have any questions or need anything further. Thank you, your business is appreciated!

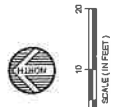
Amy Wannebo  
218-851-1563  
37753 Ox Lake Landing  
Crosslake, Mn 56442



 Petersen Deisgn 16959 Eagle Lk Rd. 50Lks 2023.pdf  
8.4MB

# CERTIFICATE OF SURVEY

PART OF GOVERNMENT LOT 4,  
SECTION 13, TOWNSHIP 138, RANGE 27,  
CROW WING COUNTY, MINNESOTA



- CONVENTIONS:  
 1. DIMENSIONS TO THE CENTER OF THE LINE UNLESS OTHERWISE NOTED.  
 2. DIMENSIONS TO THE CORNER OF THE LINE UNLESS OTHERWISE NOTED.  
 3. DIMENSIONS TO THE CENTER OF THE LINE UNLESS OTHERWISE NOTED.  
 4. DIMENSIONS TO THE CENTER OF THE LINE UNLESS OTHERWISE NOTED.  
 5. DIMENSIONS TO THE CENTER OF THE LINE UNLESS OTHERWISE NOTED.  
 6. DIMENSIONS TO THE CENTER OF THE LINE UNLESS OTHERWISE NOTED.  
 7. DIMENSIONS TO THE CENTER OF THE LINE UNLESS OTHERWISE NOTED.  
 8. DIMENSIONS TO THE CENTER OF THE LINE UNLESS OTHERWISE NOTED.  
 9. DIMENSIONS TO THE CENTER OF THE LINE UNLESS OTHERWISE NOTED.  
 10. DIMENSIONS TO THE CENTER OF THE LINE UNLESS OTHERWISE NOTED.

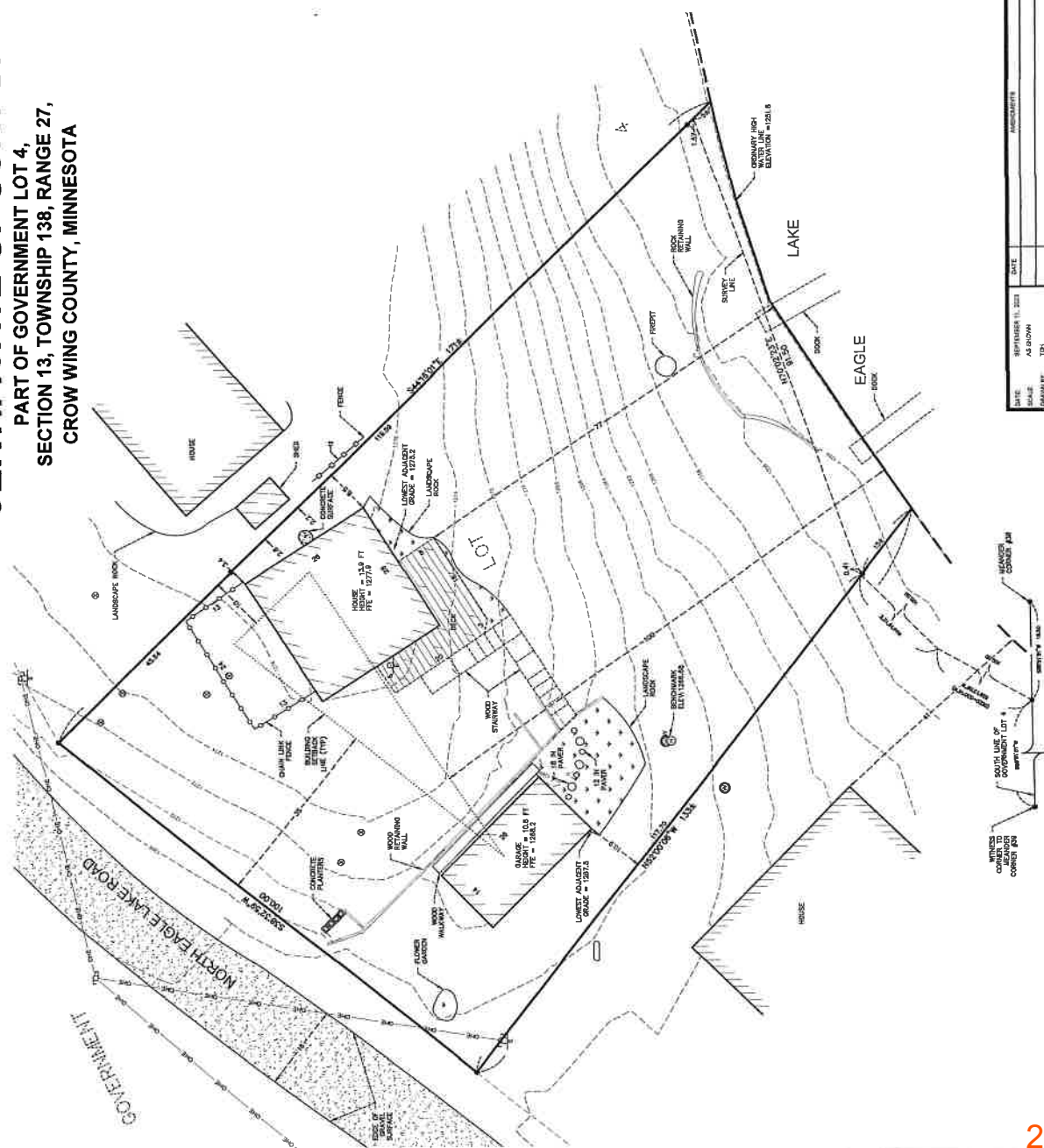
**IMPERVIOUS CALCULATIONS:**  
 TOTAL LOT AREA = 13,300.80 SQ. FT.  
 IMPERVIOUS COVERAGE = 1,128.00 SQ. FT.  
 BUILDINGS = 1,051.00 SQ. FT.  
 CONCRETE = 8.00 SQ. FT.  
 ASPHALT DRIVE = 69.00 SQ. FT.  
 RETAINING WALLS = 61.00 SQ. FT.  
 IMPERVIOUS PERCENTAGE = 8.5%  
 (1,128 / 13,300 = .0849)

**EXISTING LEGAL DESCRIPTION (According to Doc. No. 0871115):**

That part of Government Lot 4, Section 13, Township 138, Range 27, described as follows: Commencing at the point on the South line of said Lot 4 which is 16.5 feet west of meander corner number 36, said point being on the shore of Eagle Lake; thence North 71 degrees 55 minutes 00 seconds East 51.5 feet along said shore thence 43 degrees 13 minutes West 168.8 feet to the eastern line of the Township road through said Lot 4; thence South 39 degrees 36 minutes West 100 feet along said road; thence South 57 degrees 57 minutes East 117.7 feet to the place of beginning.

**SURVEYOR'S NOTES:**

THE PARCEL ID IS 2130559.  
 THE PHYSICAL ADDRESS IS 10906 N EAGLE LAKE RD, FIFTY LAKES, MN  
 THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR OPINION. THERE MAY BE EASEMENTS OR OTHER LIMITING FACTORS NOT SHOWN ON THIS SURVEY WHICH AFFECT THE SUBJECT PROPERTY.  
 EAGLE LAKE IS CLASSIFIED AS A RECREATIONAL DEVELOPMENT LAKE  
 ACCORDING TO THE CITY OF FIFTY LAKES LAND USE MAP. THE SUBJECT PROPERTY IS LOCATED WITHIN THE SHORELAND RESIDENTIAL ZONING DISTRICT.  
 THE UTILITIES SHOWN ON THIS SURVEY ARE ACCORDING TO VISIBLE EVIDENCE ONLY. WIDSETH ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACIES OF THE LOCATIONS. FURTHER LOCATIONS AND VERIFICATIONS ARE RECOMMENDED BEFORE ANY CONSTRUCTION OR EXCAVATION.  
 AS NOTED, THIS SURVEY IS BASED ON THE CROW WING COUNTY COORDINATE DATABASE MAD 83. ALTHOUGH THE EXISTING DEED BEARINGS DIFFER FROM THE CROW WING COUNTY BEARING SYSTEM, THE ANGULAR RELATIONSHIP BETWEEN THE BOUNDARY LINES SHOWN CORRESPONDS TO THE DEED LINES.  
 ACCORDING TO MITCH BRINKS, CERTIFIED WETLAND DELINEATOR NO. 1007, THERE ARE NO WETLANDS ON THE SUBJECT PROPERTY.  
 THE BOUNDARIES AS SHOWN ON THIS SURVEY ARE TAKEN FROM THE SURVEY CONDUCTED BY DEAN M. ANDERSON IN MAY OF 1982.



DATE	SEPTEMBER 11, 2023	DATE	
SCALE	AS SHOWN	DRAWN BY	TSP
CHECKED BY	CAC	DATE	SEPTEMBER 11, 2023
PULLMAN#	2023-11152	DATE	SEPTEMBER 11, 2023
BY	MICHAEL PETERSEN	DATE	
FOR	DEAN M. ANDERSON	DATE	
THIS SURVEY WAS CONDUCTED BY	DEAN M. ANDERSON	DATE	
LAND SURVEYING UNDER THE LAWS OF THE STATE OF MINNESOTA		DATE	

**WIDSETH**  
 ARCHITECTS • ENGINEERS • SCIENTISTS • SURVEYORS

**From:** Amy Wannebo <amy.wannebo@gmail.com>  
**Sent:** Friday, September 22, 2023 11:14 AM  
**To:** pz@fiftylakesmn.com  
**Subject:** Re: Petersen Design Parcel 22130559

It would not be advisable to move towards the road because the slope gets more steep as you move towards the road.

Amy Wannebo  
Lakes Area Septic LLC  
(218) 851-1563

On Sep 22, 2023, at 11:09 AM, pz@fiftylakesmn.com wrote:

Hi Amy- is it feasible to move the proposed drainfield to the north a 3.5'? The city recently modified their code to 0' setback for drainfields to the right-of-way.

Thanks,

Justin

---

**From:** pz@fiftylakesmn.com <pz@fiftylakesmn.com>  
**Sent:** Friday, September 22, 2023 11:05 AM  
**To:** 'Amy Wannebo' <amy.wannebo@gmail.com>  
**Cc:** 'Greg Kossan' <kossan@brainerd.net>; 'jessica@fiftylakesmn.com' <jessica@fiftylakesmn.com>  
**Subject:** FW: FW: Petersen Design Parcel 22130559

Hi Amy,

A variance is required for proposed design. Please have the property owner contact me regarding that process. The application form is available here:

[https://www.fiftylakesmn.com/vertical/sites/%7BF1D44CF7-131C-4D27-A3CD-F3D6B0CBAC64%7D/uploads/Variance\\_Packet\\_1-28-20.pdf](https://www.fiftylakesmn.com/vertical/sites/%7BF1D44CF7-131C-4D27-A3CD-F3D6B0CBAC64%7D/uploads/Variance_Packet_1-28-20.pdf)

\$450 application fee.

Thanks,

Justin

---

**From:** Patrick, Aaron (MPCA) <[aaron.patrick@state.mn.us](mailto:aaron.patrick@state.mn.us)>  
**Sent:** Friday, September 22, 2023 10:55 AM  
**To:** [pz@fiftylakesmn.com](mailto:pz@fiftylakesmn.com)  
**Subject:** RE: FW: Petersen Design Parcel 22130559

Hi Justin,

Reduction of the setback between a drainfield and dwelling is addressed through the local government's variance process. See rule excerpt below (with highlights added for emphasis/clarity). Let me know if you have any questions. Thank you.

7082.0300

**Subp. 2. Prohibited variation.**

A. Local ordinances or locally issued variances must not deviate from flow determinations under part 7081.0110 if the deviation reduces the average daily flow from more than 10,000 gallons to 10,000 gallons per day or less without approval of the commissioner.

B. Programs adopted under part 7082.0100, subpart 3, must not issue variances from provisions in part 7080.2150, subpart 2, items A to D, or 7081.0080, subparts 2 to 5.

C. Only the governing state agency or locally delegated authority is authorized to issue variances to chapters 4714, 4720, 4725, 6105, and 6120.

**Subp. 3. Variation from local ordinance requirements.** Variances to standards and criteria not listed in subpart 2 are allowed to be granted on a site-by-site basis by the local unit of government, if applicable local variance procedures are followed.

**Aaron Patrick** | Environmental Specialist  
Minnesota Pollution Control Agency (MPCA)  
Municipal Division  
7678 College Road | Baxter, MN | 56425  
218-316-3909  
[aaron.patrick@state.mn.us](mailto:aaron.patrick@state.mn.us) | [www.pca.state.mn.us](http://www.pca.state.mn.us)

<image001.jpg>

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**From:** [pz@fiftylakesmn.com](mailto:pz@fiftylakesmn.com) <[pz@fiftylakesmn.com](mailto:pz@fiftylakesmn.com)>  
**Sent:** Friday, September 22, 2023 9:28 AM  
**To:** Patrick, Aaron (MPCA) <[aaron.patrick@state.mn.us](mailto:aaron.patrick@state.mn.us)>  
**Subject:** FW: FW: Petersen Design Parcel 22130559

You don't often get email from [pz@fiftylakesmn.com](mailto:pz@fiftylakesmn.com). [Learn why this is important](#)

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Hi Aaron,

Can you please review attached and below and let me know if the drainfield to dwelling setback reduction would be a land use variance or something that needs to be reviewed by MPCA. It's my

understanding that designs that do not meet requirements (except dimension—e.g. tank within sideyard setback) need to be approved by the State and not via local land use ord.

Thanks,

Justin

---

**From:** Greg Kossan <[gregkossan@gmail.com](mailto:gregkossan@gmail.com)>  
**Sent:** Thursday, September 21, 2023 6:35 PM  
**To:** [pz@fiftylakesmn.com](mailto:pz@fiftylakesmn.com)  
**Subject:** Re: FW: Petersen Design Parcel 22130559

Hello, with township approval and issuance of variance for set back to home, septic design for 16959 n Eagle ok rd is approved, Greg Kossan

On Mon, Sep 18, 2023 at 11:53 AM <[pz@fiftylakesmn.com](mailto:pz@fiftylakesmn.com)> wrote:

Greg- please see note below from Amy and review attached design and let us know if it meets MN 7080 and city requirements.

Thanks,

Justin

---

**From:** Amy Wannebo <[amy.wannebo@gmail.com](mailto:amy.wannebo@gmail.com)>  
**Sent:** Friday, September 15, 2023 2:56 PM  
**To:** [jessica@fiftylakesmn.com](mailto:jessica@fiftylakesmn.com); [pz@fiftylakesmn.com](mailto:pz@fiftylakesmn.com)  
**Subject:** Petersen Design Parcel 22130559

Hello Justin,

I have attached the design and soil information for Mike Petersen located at 16959 N Eagle Lk. Rd. Parcel 22130559. This one is asking for a reduction to the 20' setback to the house down to 16.5' for a small section of the drainfield, please review all notes and pages carefully. Please reach out with any questions. Please acknowledge receipt of this email and all attachments. Thank you!

Amy Wannebo



218-851-1563

[37753 Ox Lake Landing](#)

[Crosslake, MN 56442](#)

<image002.jpg>

## RE: Fifty Lakes Variance Request- SSTS in Shoreland

Frie, Jacob (DNR) <Jacob.Frie@state.mn.us>

Mon 11/13/2023 12:54 PM

To: pz@fiftylakesmn.com <pz@fiftylakesmn.com>

Cc: ann@fiftylakesmn.com <ann@fiftylakesmn.com>; jessica@fiftylakesmn.com <jessica@fiftylakesmn.com>; Patrick, Aaron (MPCA) <aaron.patrick@state.mn.us>

Good afternoon Justin:

As the MN DNR tends to comment on minimum Shoreland Rule deviations, a setback variance from drainfield to dwelling unit is not something considered by Shoreland Rules 6120. I defer any comments on this one to MPCA, should they choose to comment.

Thank you.

### Jacob Frie

Area Hydrologist | Division of Ecological and Water Resources

### Minnesota Department of Natural Resources

1601 Minnesota Drive

Brainerd, MN, 56401

Phone: 218-203-4367

Email: [Jacob.frie@state.mn.us](mailto:Jacob.frie@state.mn.us)

[mndnr.gov](http://mndnr.gov)



---

**From:** pz@fiftylakesmn.com <pz@fiftylakesmn.com>

**Sent:** Monday, November 6, 2023 12:56 PM

**To:** Frie, Jacob (DNR) <Jacob.Frie@state.mn.us>; Patrick, Aaron (MPCA) <aaron.patrick@state.mn.us>

**Cc:** ann@fiftylakesmn.com; jessica@fiftylakesmn.com

**Subject:** Fifty Lakes Variance Request- SSTS in Shoreland

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Hi Jake and Aaron,

Please review attached and let us know if you have any comments/questions. The property owner is requesting a variance to construct a pressure bed 16.5' from their dwelling. 20' is required.

Thanks,

Justin

**ORDINANCE NO. 03-2023**  
**AN AMENDMENT TO THE FIFTY LAKES**  
**LAND USE ORDINANCE**  
**CITY OF FIFTY LAKES**  
**COUNTY OF CROW WING**  
**STATE OF MINNESOTA**

The City Council of the City of Fifty Lakes does ordain as follows:

**Section 1: Declaration of Purpose:** To modify the several sections of the City of Fifty Lakes Land Use Ordinance regarding “Right of Inspection” pertaining to inspection of property by city staff, mayor and city council members and planning commission/board of adjustment members, “Land Use Tables” to include “recreational vehicle” and “transient food unit,” “Plat Design Standards,” requiring and increasing park dedication fees for all new plats, “Parking, Storage and Usage of Recreational Vehicles,” regarding permitting and performance standards for storage, placement and usage of recreational vehicles, and “Mobile Food Unit,” creating permitting requirements and performance standards for mobile food units.

**Section 2: Amendment:** Section 2.06, “Right of Inspection,” Section 4.03, “Land Use Tables,” Section 6.05, “Plat Design Standards,” Section 9.06, “Parking, Storage and Usage of Recreational Vehicles,” and Section 9.20, “Transient Food Unit,” are hereby amended with the following added language underlined and deleted language struck out:

**2.06 Right of Inspection**

An applicant for any permit, subdivision and/or variance request under this ordinance gives ~~the City staff,~~ Zoning Administrator, Mayor, City Council members, Planning Commission members, and Board of Adjustment members the right of access to the premises concerned for inspection, and enforcement of this ordinance. Additionally, the Zoning Administrator is authorized to enter upon lands within the incorporated area of the City for the purpose of carrying out the duties and functions imposed under this ordinance, and/or make investigations of any violations of this ordinance and/or cause proceedings to be instituted when warranted.

**4.03 Land Use Tables**

USE	SR	RR	AG	C	CMU	WC	SP	FM
<u>Mobile Food Unit, Placement of</u>	<u>N</u>	<u>N</u>	<u>N</u>	<u>P</u>	<u>P</u>	<u>N</u>	<u>N</u>	<u>N</u>
<u>Recreational Vehicle, Placement of (not in storage)</u>	<u>P/I</u>	<u>P/I</u>	<u>P/I</u>	<u>N</u>	<u>N</u>	<u>P/I</u>	<u>N</u>	<u>P/I</u>

## 6.05 Plat Design Standards

6.05.05 **Improvements.** The subdivider shall pay for the cost of all improvements required in the subdivision pursuant to their Developer's Agreement in Section 6.06 of this ordinance including but not limited to:

- a) **Public Dedication.** A reasonable portion of any proposed subdivision may be required as a dedication to the public or reserved for public use as roads, utilities, drainage, ponds, parks, playgrounds, trails, open space, and similar utilities and improvements. The City shall have the option of requiring a cash contribution in lieu of land dedication. Such cash contributions shall be based upon ~~1%~~ 5% of the "fair market land value" of the land within such plat or subdivision as of the date presented to the Council for preliminary approval. "Fair market land value" is defined as the market value of the land for tax purposes. Any money so paid to the City shall be placed in a special fund and used for conservation purposes or for public use as parks, playgrounds, trails, wetlands, or open spaces.

## 9.06 Parking, Storage and Usage of Recreational Vehicles

~~9.06.01 — Recreational vehicles 20 feet or more in length shall be stored inside or be fully screened from adjacent properties and public waters.~~

~~9.06.02 — Temporary Placement for Use:~~

- ~~a) Temporary placement for use of recreational vehicles other than in a campground shall be allowed with a land use permit for one (1) calendar year (June through May). The land use permit may be renewed for three (3) consecutive years. Any use of a recreational vehicle greater than three (3) years will require an interim use permit.~~
- ~~b) Any owner or tenant on a lot may use a recreational vehicle for guests for a period of up to twenty one (21) consecutive days without a permit.~~
- ~~e) Temporary recreational vehicle placement for use shall be allowed only on lots having conforming water supply and subsurface sewage treatment systems.~~

9.06.01 General.

- a) Recreational vehicles (RV) shall be stored inside or shall be located to reduce visibility (through use of topography and vegetation) as viewed from public water and adjacent property.
- b) RV's must meet dwelling setback requirements for the zone they are located in.
- c) There shall be a maximum of four units allowed on a property at any one time.
- d) One RV may be considered a "guest cottage" on a conforming lot if no other guest quarters or guest cottages are located on the property.

9.06.02 Temporary Placement for Use.

- a) Any owner or tenant on a lot may use a recreational vehicle for guests for a period of up to twenty-one (21) days in any six month period without a permit.

9.06.03 Long-term Placement for Use

- a) A one-time permit for long-term placement for use of recreational vehicles other than in a campground shall be allowed with a land use permit for up to three (3) years.
- b) Long-term placement for more than three (3) years shall require an interim use permit and installation of a conforming water supply and subsurface sewage treatment system, as defined by this ordinance.

**9.20 Mobile Food Unit**

**9.20.01 Established Boundaries.** “Mobile Food Units,” as defined by Minnesota Department of Health, are permitted to operate in the Commercial and Commercial Mixed Use Zones.

**9.20.02 Permitted Uses.** Mobile food units including trucks, trailers, wagons, carts, etc. are allowed to operate with a permit on public and private property subject to the following:

- a. Mobile food unit hours of operation shall be limited to 7:00 am to 11:00 pm.
- b. Only food and non-alcoholic beverages can be sold.
- c. At least one (1) trash receptacle with a tight-fitting lid shall be provided.
- d. Mobile food unit operators must clean around their unit at the end of each day.
- e. Mobile food unit operators cannot call attention to themselves by crying out, blowing a horn, ringing a bell, and playing music or other noise discernable beyond the unit.
- f. Mobile food units must be kept in good repair and order and have a neat appearance.
- g. Electrical cords and hookups to public utilities are not permitted.
- h. Liquids from a food unit cannot be drained onto public property.
- i. Generators must be self-contained and fully screened from view and not exceed 70 dbs.
- j. Exterior lighting that will call attention to the setup is not permitted.
- k. Follow applicable Minnesota Department of Health regulations.
- l. Copies of all required State licenses are provided to the City.
- m. One “A” frame sign not exceeding 12 square feet per side is permitted during operation.
- n. Property owner written approval is required.
- o. Mobile food units cannot be left unattended nor remain at an authorized operating location outside allowed hours of operation.



- p. Proof of liability insurance is provided in accordance with City of Fifty Lakes requirements.
- q. Mobile food units are allowed to operate during festivals and community events provided it is approved by City of Fifty Lakes as part of a festival and community events permit.
- r. Sales are permitted in a City park when approved by City of Fifty Lakes.

**Section 3: EFFECTIVE DATE:** This ordinance shall be in full force and effect from and after its passage and publication, as required by law.

Adopted by the City Council of City of Fifty Lakes

This \_\_\_\_ of \_\_\_\_\_,  
(Day) (Month) (Year)

Attest: \_\_\_\_\_, Mayor  
Toni Buchite

Attest: \_\_\_\_\_, City Clerk  
Ann Raph

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CITY OF FIFTY LAKES  
MINUTES OF THE PLANNING COMMISSION  
October 24th, 2023  
6:00 PM

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1. **Call to order:** 6:00 pm

2. **Roll Call:**

Planning Commission: Bob Stancer, Don Reiersen, Bruce Bissonnette, Fred Strohmeier, Mike Milbrath  
Staff: Justin Burslie, Planning and Zoning Administrator  
City Council: Gary Staples

**MOTION MADE BY MR. MILBRATH AND SECONDE BY MR. STROHMEIER TO APPROVE THE AUGUST 22<sup>ND</sup>, 2023 MEETING MINUTES AS PRESENTED.**

When polled: All members voted aye. Motion carried.

3. **New Business:** The commission reviewed the draft modifications of the Recreational Vehicle Ordinance regarding “General use”, “Temporary Placement for Use”, and “Long-term Placement for Use”. The commission discussed the possibility of having a Food Truck Ordinance, changes in the Park Dedication Fee Ordinance and a draft to clarify that city staff, zoning administrator, city council members and planning commission members have the right to access a premises for inspection in the permitting process in the Right of Inspections Ordinance.
4. **Old Business:** Mr. Burslie updated the commission on that Horvath cell tower construction date is unknown due to Verizon’s installation timeline being pushed to 2025.
5. **P&Z Administrator’s Report:** Mr. Burslie informed the commission that year to date there have been 49 Land Use Permits and 12 SSTS permits.

**MOTION BY MR. STROHMEIER AND SECONDED BY MR. STANCER TO ADJOURN. MEETING ADJOURNED AT 7:50 PM.**

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Jessica Istvanovich, Deputy Clerk

**2023 Land Use Permits**

NUMBER	DATE RECD	DATE APPRVD	PROPERTY ADDRESS	LAST	FIRST	ZONE	PIN	DESCRIPTION	FEE
01-23	2/3	4/28	40324 W Fox Lake Road	Drill	David & Erica	SR	22280577	Construct 2,156 sf dwelling addition	300
02-23	3/3	3/10	41441 East Eagle Lake Ln	Moldenhau	Donald	SR	22240575	Construct 1,120 sf dwelling addition in accordance with Variance V-05-22	200
03-23	3/10	4/17	12730 Manhattan Point Blvd	Steinbauer	Nathan & Joanna	SR	22310509	Construct 2' wide paverwalkway in SIZ 1 & 2	100
04-23	4/5	4/14	43953 KEGO LAKE RD	Bailey	Jackie	SR	22150514	Shoreline alteration: sand blanket, walkway and rip rap	100
05-23	4/19	4/28/23	39098 Ox Lake Cir	Gibbs	Ben	SR	22320517	Apprx 8 cu yd grading in SIZ I.	100
06-23	4/21	5/8/23	16246 Eagles Turn	Wright	Thomas	SR	22230522	Construct 28' x 42' (1,176 sf) accessory structure	200
07-23	5/5/23	5/8/23	41325 Peninsula Rd	Salo	Robert & Lois	SR	22220599	Construct wood boardwalk/entry ramp	150
08-23	5/5/23	5/8/23	tbd E Fox Heights Rd	Faber	Mike	SR	22220590	Construct 10' x 12' water oriented accessory structure and install 15' (l) x 10' (w) sand area	300

NUMBER	DATE RECD	DATE APPRVD	PROPERTY ADDRESS	LAST	FIRST	ZONE	PIN	DESCRIPTION	FEE
09-23	5/1/23	5/8/23	40293 Fox Glen Rd	Siemers	Scott & Nicole	RR	22270568	Construct 60' x 60' (3,600 sf) single family dwelling	550
10-23	5/8/23	5/12/23	16594 Fawn Cir	Bengtson	Tim	SR	22110502	Construct 32' x 48' (1,536 sf) accessory structure	200
11-23	5/12/23	5/12/23	40366 Co Rd 3	City of Fifty Lakes		C	22250500	Construct 60' x 60' (3,600 sf) pickle ball courts	n/a
12-23	5/15/23	5/19/23	12248 Northgate Ln	Frederiksen	Scott & Heidi	SR	22310549	Construct 1,216 sf accessory structure and garden fence	200
ATF13-23	5/22/23	5/22/23	15122 CO RD 1	Thalacker	Craig & Linda	SR	22270579	AFTER-THE-FACT Shoreline grading permit. 4' wide stairs. Remove boulder wall in SIZ 1, restore grade and vegetate. Amended 9/11/23 to include 16' diameter fire/patio is SIZ II	1100
14-23	5/19/23	5/22/23	15156 Edgewild Ln	Grudem	Jerome	SR	22220622	Construct 3' x 90'+ wooden stairway	100
15-23	5/19/23	5/22/23	43252 County Road 136	Gilman	Gary	SR	22120548	Replace existing accessory structure with 36' x 40' (1,440 sf) accessory structure	200
16-23	5/26/23	6/8/23	17594 Emerald Ln	Baskfield	John	SR	22240543	patio and 3' wide stairway/walkway	100
17-23	5/23/23	6/8/23	12864 Manhattan Point Blvd	Lodging LLC		SR	27320535	15' (length along shoreline) x 10' wide sand area	100
18-23	6/12/23	6/16/23	17709 Emerald Dr.	Lang	Dale	SR	22240552	Construct two retaining walls and general site grading in SIZ 2 and RLZ to mitigate erosion. Construct 4' wide stairway and 120 sf accessory structure	200
19-23	6/14/23	6/16/23	14082 West Fox Ln	Hupperts	Greg	SR	22280606	Convert existing patio into 4' wide walkway and construct a walkway and fire pit/patio in SIZ 2	100

NUMBER	DATE RECD	DATE APPRVD	PROPERTY ADDRESS	LAST	FIRST	ZONE	PIN	DESCRIPTION	FEE
20-23	6/16/23	9/26/23	40946 Peninsula Rd	Kirchoff	John	SR	22220571	Construct 4' wide walkway in SIZ 1	100
21-23	6/30/23	6/30/23	43292 Buck Trl	Hilton	Gerald & Amy	SR	22130571	Seasonal placement of recreational vehicle	50
22-23	6/21/23	6/30/23	43314 Buck Trl	Kremer	Greg	SR	22130580	Construct a 2,490 sf single family dwelling.	450
23-23	6/14/23	6/30/23	17374 Pitch Pine Ln	Maloney	Richard	SR	22130512	Construct 2,280 sf single family dwelling with attached deck	450
24-23	6/30/23	6/30/23	41282 Peninsula Rd	Johnson	Lary	SR	22220605	Construct 640 sf dwelling addition partially within OHW level setback in accordance with Variance V-01-23 and reconstruct 8' x 46' (368 sf) pre-existing deck.	200
25-23	6/30/23	7/3/23	41170 W Fox Lake Rd	Nibbe	James	SR	22210504	Place 7' x 7' (49 sf) accessory structure on property	75
26-23	7/6/23	7/10/23	tbd W Eagle Lake Rd	McGuire	John	SR	22140514	Construct 10' wide driveay	50
27-23	7/14/23	7/14/23	15634 Co Rd 1, Unit #15	Jorgensen	Alan	WOC	22270512	Construct 9' x 10' (90 sf) deck	75
28-23	7/14/23	7/14/23	TBD County Rd 3	Anderson	Jerry	Ag	22350540	Construct 10' x 20' accessory building	100



NUMBER	DATE RECD	DATE APPRVD	PROPERTY ADDRESS	LAST	FIRST	ZONE	PIN	DESCRIPTION	FEE
29-23	7/3/23	7/14/23	43835 Kego Lk Rd	Cronister	Jason	SR	22150510	Construct 10' x 12' (120 sf) water oriented accessory structure	100
30-23	7/21/23	8/28/23	39796 Majestic Rd	Kent	Travis	SR	22320528	Construct 4,054 sf single family dwelling	650
31-23	7/31/23	8/4/23	TBD	Potz	David	RR	TBD (new parcel)	Construct a 30' x 40' (1,200 sf) single family dwelling	350
32-23	8/4/23	8/7/23	39855 Majestic Road	Berger	Vanessa	SR	22320510	Construct a 20' x 32' (640 sf) dwelling addition (4 season porch/awning). Amended 9/22/23 to include 16'x24' accessory structure.	200
33-23	8/4/23	8/11/23	17175 N Mitchell Lake Rd	Widman	Craig	SR	22120533	Repair existing retaining wall, and add appr 8 cu yd sand to existing sand area.	100
34-23	8/4/23	8/11/23	17175 N Mitchell Lake Rd	Widman	Craig	SR	22120532	Construct 4' wide walkway, repair existing retaining wall, and add appr 10 cu yd sand to existing sand area.	100
35-23	8/7/23	8/11/23	17011 Buchite Rd	Ness	Randy	RR	22360516	Construct 10' x 20' (200 sf) accessory structure addition, 9' x 20' (180 sf) accessory structure addition, new 12' x 20' (240 sf) accessory structure and 12' x 12' (144 sf) lean-to addition.	150
36-23	8/7/23	8/15/23	13755 County Road 1	Morton	Jeanne	SR	22320534	Construct 30' x 32' (960 sf) single family dwelling	250
37-23	8/21/23	8/21/23	16851 N Eagle Lake Rd	Laloo	Neal	SR	22240598	16.5' x 12' patio and 8.5' x 12' deck	100
38-23	8/15/23	8/25/23	16240 Eagles Turn	Kourajian	Paul & Jane	SR	22230520	Construct 3,664 sf single family dwelling and 26' x 38' (988 sf) accessory structure.	650
39-23	8/25/23	8/28/23	13257 Meyer Lake Rd	Green	Jay	SR	22320529	Construct 12' x 16' (192 sf) accessory structure	100
40-23	8/31/23	9/1/23	Dr	Witt	Mike	SR	22230531	Construct a 4' wide stairway	100
41-23	8/29/23	9/1/23	tbd	Atwater	Troy	FM	22220627	Construct 46' x 80' (3,680) non-commercial storage building as principal use on 30 ac parcel	550

NUMBER	DATE RECD	DATE APPRVD	PROPERTY ADDRESS	LAST	FIRST	ZONE	PIN	DESCRIPTION	FEE
42-23	8/25/23	9/1/23	14096 W Fox Lake Ln	Lenz	Paul & Lana	SR	22280608	Construct three dwelling additions totaling 1,014 sf	200
43-23	9/1/23	9/8/23	15634 County Rd 1 Unit #19	Lombardi	Mark	SC	22270528	Replace existing 7' x 7' (49 sf) deck and construct 4' wide stairway	75
44-23	9/11/23	9/22/23	17385 N. Mitchell Lake Road	Ireland	Paul	SR	22120518	Replace existing 4' wide walkway, 3 cu yd grading in SIZ 1, construct 200 sf fire pit/patio and 20' long retaining wall in SIZ 2	150
45-23	9/8/23	9/22/23	15634 County Rd 1, Unit #23	Halek	Jim	WOC	22270524	Construct 12' x 24' (288 sf) accessory structure.	100
46-23	9/18/23	9/25/23	43953 Kego Lake Rd	Bailey	Jackie	SR	22150514	Construct 9' x 13' (117 sf) water-oriented accessory structure	100
47-23	9/18/23	9/25/23	43322 Buck Trl	Hiler	Dylan	SR	22130579	Construct 24' x 24' (576 sf) accessory structure	150
48-23	9/18/23	9/25/23	17354 Buchite Rd	Walsten	Trevor & Bev	SR	22360505	Construct 180 sf deck addition	100
49-23	9/15/23	9/25/23	12357 Northgate Ln	Haughey	Jacqueline Haughey	SR	22310515	Replace existing 251 sf patio, retaining walls < 4' high, and steps	100
50-23	10/20/23	10/23/23	15634 County Road 1, Cabin #1	Klietz	Kathleen & Brian	WOC	22270546	Construct 15' x 20' (300 sf) accessory structure	100
51-23	11/3/23	11/6/23	40674 Peninsula Rd	Larsen	Robb	SR	22270618	Construct 28' x 40' (1,120 sf) dwelling addition (attached garage) and 182 sf dwelling addition (mud room)	200
52-23	11/3/23	11/13/23	4964 Peninsula Rd	Musolf	Lon	SR	22220572	Construct 4' wide walkway to lake and restore existing beach area with deep rooted grasses	100

## 2023 SSTS Permits

Permit #	Date Rec.	Date Apprvd.	New or Rep.	PIN	Location	Last Name	First Name	Type
SSTS01-23	5/1/23	5/8/23	New	22270568	40293 Fox Glen Rd	Siemers	Scott & Nicole	1- rock trenches, 300 gpd, 1 tank
SSTS02-23	5/19/23	5/19/23	New/upgrade	22310549	12248 Northgate Ln	Frederiksen	Scott & Heidi	1- Add 1500 gal tank to existing system
SSTS03-23	5/19/23	5/19/23	New	22130582	tbd N Eagle Lake Rd	Gleason	John	3?- Privy
SSTS04-23	5/30/23	5/30/23	New	22320534	tbd County Rd 1	Morton	Jeanne	1- rock trenches, 300 gpd, 1 tank
SSTS05-23	05/23/23	6/8/23	Rep	14050626	12864 Manhattan Point Blvd	Trout Lodging LLC		1- pressure bed, 750 gpd, 2 tanks
SSTS06-23	6/23/23	6/26/23	New	22270549	tbd Old Co Rd 1	Adas	Pat	1- rock trenches, 450 gpd, 1 tank
SSTS07-23	6/14/23	6/30/23	Rep	22130512	17374 Pitch Pine Ln	Maloney	Richard	1- rock trenches, 450 gpd, 1 tank
SSTS08-23	7/21/23	8/28/23	New	22320528	39796 MAJESTIC RD	Kent	Travis	1- rock trenches, 600 gpd, 1 tank
SSTS09-23	7/31/23	8/4/23	New	TBD (new)	TBD	Potz	David	1- rock trenches, 300 gpd, 1 tank
SSTS10-23	8/18	8/21	Rep	22220585	41379 Old Kego Lake R	Johnson	Mary	1- pressure bed, 450 gpd, 2 tanks
SSTS11-23	8/15/23	8/25	New	22230520	16240 Eagles Turn	Kourajian	Paul & Jane	1- mound, 450 gpd, 1 tank
SSTS12-23	8/25/23	8/28/23	Rep (NC system)	22130546	17139 N EAGLE LAKE R	Spevacek	Jeffrey	1- mound, 750 gpd, 2 tanks
SSTS13-23	10/18/23	10/20/23	Rep	22240600	16887 N Eagle Lake Rd	Millbrath	Mike & Mary	3- (fill soils, soil correction , time dose, undersized rock bed), 750 gpd, 2 tanks
SSTS14-23	10/20/23	10/23/23	Rep	22270546	15634 County Road 1, Cabin #1	Klietz	Kathy & Brian	1- rock trenches, 360 gpd, 1 tank
SSTS15-23	10/23/23	10/23/23	New	22280648	40134 RED FOX LN	Olson	Greg	1- pressure bed, 300 gpd, 1 tank