



070401000-2022



Becker County Planning & Zoning  
915 Lake Ave  
Detroit Lakes, MN 56501  
(218) 846-7314  
www.co.becker.mn.us

## Certificate of Compliance

### Inspection Report - Permit #: SS2022-1514

#### Owner & Property Information

Owner Name:	DILLON OAK	Site Address:	14584 SOUTHSORE CIR
Mailing Address:	DILLON OAK 1637 13TH AVE S FARGO ND 58103	Township - Sec/Twp/Rng:	CUBA - 34/140/043
Parcel #:	070401000	Legal Description:	Lot 001 Block 001 of SOUTHSORES
Secondary Parcel #:		Designer:	Buffalo River Excavating LLC, L3872 (Adam Schenck)
		Installer:	Buffalo River Excavating LLC, L3872 (Adam P Schenck)

#### Inspector Verified Specifications

Insp- Effluent Screen Installed:	Yes	Insp- Tank Nbr/Size:	2/1000/2250
Insp- Alarm Required:	Yes	Insp- Drainfield Type:	Mound
Insp- Lift Pump in System:	Yes	Insp- Drainfield Size:	630
Insp- Number of Bedrooms:	3	Insp- Soil Verification:	#1:27"LL #2:N/A #3:N/A

#### Inspector Verified Setbacks

Insp- Tank Dist to Road	10+	Insp- Drainfield Dist to Road	10+
Insp- Tank Dist to Nearest Prop Line	10'	Insp- Drainfield Dist to Nearest Prop Line	10'
Insp- Tank Dist to Nearest Structure	10+	Insp- Drainfield Dist to Nearest Structure	20+
Insp- Tank Dist to Well	50+WELL IN AT THE TIME OF INSPECTION	Insp- Drainfield Dist to Well	50+WELL IN AT THE TIME OF INSPECTION
Insp- Tank Dist to OHW	150+	Insp- Drainfield Dist to OHW	150+
Insp- Tank Dist to Pond/Wetland	N/A	Insp- Drainfield Dist to Pond/Wetland	N/A
Insp- Tank Dist to Pressure Line	20+	Insp- Drainfield Dist to Pressure Line	20+

#### Certificate of Compliance

(Yes) Certificate is hereby granted based upon the application, addendum from, plans, specifications and all other supporting data. With proper maintenance, this system can be expected to function satisfactory, however this is not a guarantee.

Certification Date: 9/19/2022

Zoning Office Signature:

Jeff Rusness - ISTS Inspector

\* Certificate of Compliance is not valid unless signed by a Registered Qualified Employee \*

# Field Review Form

Permit # SS2022-1514

## Property and Owner

Owner: DILLON OAK

Parcel Number: 070401000

Site Address: 14584 SOUTHSORE CIR

Secondary Parcel:

## Home Information

Does the structure contain any of the following elements?

Designer submitted

Inspector verified

Garbage disposal: Yes **NO**  
 Dishwasher: Invalid Field  
 Grinder pump: Invalid Field  
 Lift pump in bsmt: Invalid Field

Garbage disposal? Y  N   
 Dishwasher?  Y  N  
 Grinder pump?  Y  N  
 Lift pump in basement?  Y  N

Number of bedrooms: 5

Review - Number of bedrooms: **5**

Effluent screen

Effluent screen installed?  Y  N

Mfr: **PL 122 PDIY/LC**

Alarm: Yes Type: Alderon Outdoor

Review - Alarm?  Y  N

Type & Mfr: **Alderon Outdoor**

Lift pump in system: Yes

Review - Lift pump in system?  Y  N

Mfr: **Goulds PEST**

## Component Information

Tank size: 2250 brown wilbert and 1000 brown wilbert

Review - Tank nbr: **2** size: **1000 2250**

Mfr: **Brown Wilbert**

Drainfield type: Mound

Review - Drainfield type: **Mound**

Drainfield size: Full size - 625  
 Reduced/warr. size -

Review - Drainfield status: none / **installed** / next spring

Review - Drainfield size: **10x63**

Absorption area size: 6" under pipe

Review - Absorption area size:

Chamber type/num: N/A

Review - Chamber type:

Num:

Trench sqft/chamber - N/A

Review - Trench sqft/chamber: **N/A**

Drainfield rock depth: 6" under pipe

Review - Rock depth: **6in**

## Soil Verification

Vertical separation verified

Boring #1:

Boring #2:

Boring #3:

## Setback Verification

Distance to...	Designer submitted		Inspector verified	
	Tank	Drainfield	Tank	Drainfield
Road	100'+	100'+	<b>10</b>	<b>10</b>
Nearest prop line	10'+	10'+	<b>10</b>	<b>10</b>
Nearest structure	35'	50'	<b>10</b>	<b>00</b>
Well	well not yet drilled	well not yet drilled	<b>50+</b>	<b>50+</b>
OHW	230'	220'	<b>150+</b>	<b>150+</b>
Pond/Wetland	n/a	N/A	<b>N/A</b>	<b>N/A</b>
Pressure line	50'+	50'+	<b>20+</b>	<b>20+</b>

Date System Installed: **9-13-2022**

Installer: **Buffalo River Etc.**

Inspector:

*[Signature]*

1514

Dillon oak  
14584 Southshores Circle  
Lorber Park way  
S Blm Mount w/ ejector  
2250 + 1000 trunks  
62.5' x 10' mount

Well not yet drilled

West  
Lorber  
Park

X 200' to  
Hull

1000' No 2250  
1.75' x 1.75'

Cleaner  
assembly

New S Blm Ltr  
has ejector

1/4" x 1/4" x 1/4" x 1/4"  
Soil boring  
location

Albion Outdoor Ala -  
Poly for PL-122 ALA

10' x 62.5' Mount  
1.5" tracks w/ 7/32 holes every 2.5'

mark for  
10' to Row  
1.75' x 1.75'

Southshores Circle

C-53-  
*[Handwritten scribbles]*

# Mound Design

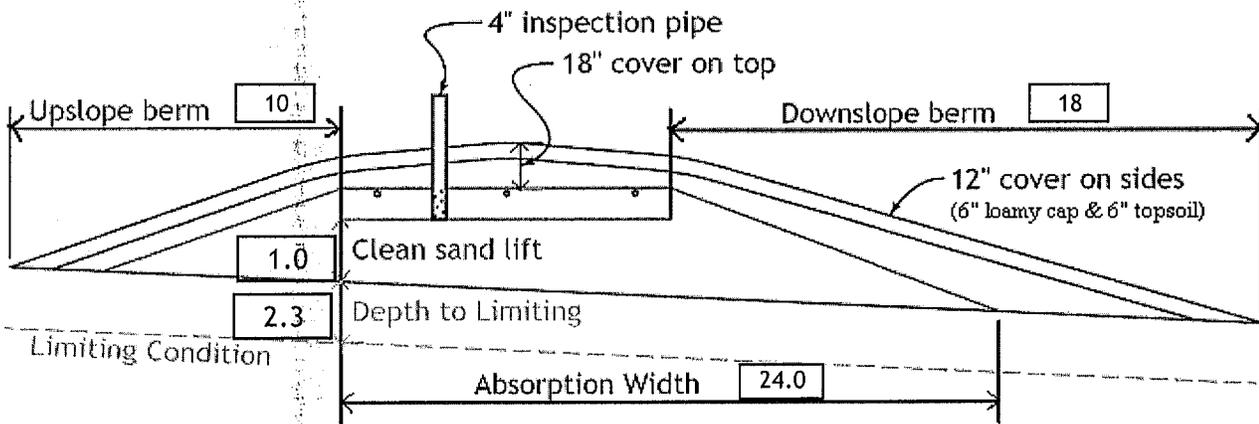
Property Owner: Dillon Oak Date: 9/3/2022  
 Site Address: 14584 Southshore Circle Lake Pake MN PID: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Instructions:  = enter data  = adjust if desired  = computer calculated - DO NOT CHANGE!

- 1)  bedroom Type  Residential System
- 2)  GPD design flow
- 3)  Garbage disposal or pumped to septic 50% larger tank with multiple comp/tanks
- 4)  Gal Septic tank (code minimum)  Gal Septic tank (design size / LUG req'd)  
Tank options: none
- 5)  GPD/ft<sup>2</sup> mound sand loading rate contour loading rate of  req's a min  ft. long rockbed
- 6)  ft rockbed width  ft rockbed length
- 7)  ft lateral spacing  ft perforation spacing (maximum of 3 for both)  
 manifold connection
- 8)  laterals  feet long  perfs / lateral  perfs total  
(1/2 a perf means the first perf starts at the middle feed manifold)
- 9)  inch perfs at  feet residual head gives  gpm flow rate per perforation  
for this perf size & spacing, & pipe size on line 12, max perfs/lateral = , line #8 must be less --> OK
- 10)  doses per day (4 minimum)
- 11)  gallons per dose (treatment volume)
- 12)  inch diameter laterals must be used to meet "4x pipe volume" requirement
- 13)  feet of  inch supply line leads to  gallons of drainback volume  
(Tip: "top feed" manifold to control the drainback)
- 14)  gallons TOTAL pump out volume (treatment + drainback)
- 15)  feet vertical lift from pump to mound laterals, leads to a:
- 16)  GPM @  feet of head, Pump requirement (note: >50gpm may require an extra 3-6' of head)
- 17)  gal Dose tank (code minimum)  gal Dose tank (design size / LUG req'd) at  gpi  
leads to a:
- 18)  inch swing on Demand float, (this delivers Average flow, =70% of Peak design flow)  
 min ON  
 hrs OFF
- 19)  inches from bottom of tank to "Pump OFF" float
- 20)  inches from bottom of tank to "Pump ON" float  inches to "Timer ON" float
- 21)  inches from bottom of tank to "Hi Level" float  inches to "Hi Level" float
- 22)  gallons reserve capacity (after High Level Alarm is activated-demand dosed)

- 23)  gpd/ft<sup>2</sup> Absorption area Soil Loading Rate, which gives a mound ratio of  (minimum)  
 (this must match the soil boring log) desired mound ratio
- 24)  percent site slope (0-20% range)  (% downslope site slope, if different than upslope)
- 25)  inches, or  ft. to Redox or other limiting condition (need at least 12" to be a Type I)  
 Treatment zone contains  inches of 0% soil credit, and  inches of 50% soil credit. Giving a:
- 26)  inch, or  ft. Sand Lift Mound **CRITICAL FOR FUTURE CERTIFICATIONS!!!**
- 27)  ft. Total ABSORPTION width (with sand beyond rockbed as follows):
- 28)  ft. upslope and sideslope  
 ft. Downslope
- Individual slope ratios give BERM widths (topsoil beyond rockbed) of:
- 29)  upslope ratio  ft. upslope berm
- 30)  sideslope  ft. sideslope berms
- 31)  downslope  ft. downslope berm

- 32) Overall Dimensions:  ft. wide by  ft. long Rock bed  
 ft. wide by  ft. long Mound footprint



**Note:**  
 For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.  
 For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

- 33) Rock Bed:  
 ft. by  ft. by  inches under pipe, plus 20% gives  yd<sup>3</sup> or \*1.4=  ton
- 34) Mound Sand: (note: volume is based on 3:1/4:1 slope from top of rockbed, Exchange sand for loamy cap if desired)  
 up +  downslope +  ends +  under rock =  yd<sup>3</sup> or \*1.4=  ton  
 plus 20%
- 35) Loamy Cap:  
 ft. by  ft. 6" deep, plus 20% gives  yd<sup>3</sup> or \*1.4=  ton
- 36) Topsoil:  
 ft. by  ft. 6" deep, plus 20% gives  yd<sup>3</sup> or \*1.4=  ton

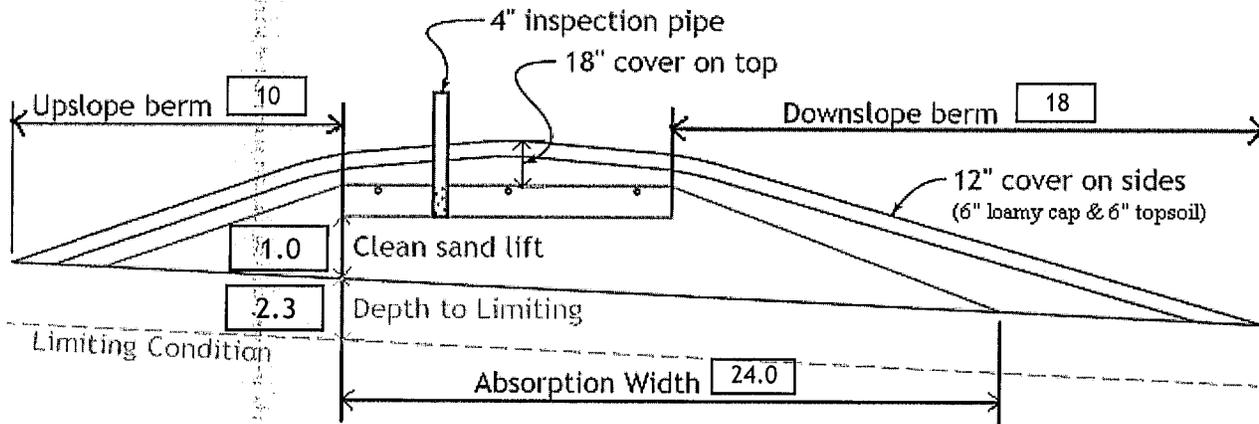
I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Designer Signature \_\_\_\_\_ Company \_\_\_\_\_ License# \_\_\_\_\_ Date 9/3/2022

# Installer Summary

- 2250 gallon Septic tank (minimum) Tank options: none
- 1000 gallon Dose tank (minimum) at 12.00 gpi
- 42 GPM @ 13 ft. of head, Pump required
- 15.9 inch swing on Demand float which translates to roughly 9.0 inches of float tether length
- Optional Time dosing of:
  - 4.5 minutes ON
  - 8.5 hours OFF
  - 12 inches to "timer ON" float
  - 41 inches to "Hi level" float
- 28 inches from bottom of tank to "pump ON" float, or
- 31 inches from bottom of tank to "Hi Level Alarm" or
- 16 ft. of 2.0 inch supply line with end feed manifold connection  
(Tip: "top feed" manifold to control drainback)
- 12 inch, or 1.0 ft. Sand Lift Mound
- 10.0 ft. wide by 62.5 ft. long Rock bed
- 3 laterals 2.00 inch diameter 60.5 ft. long 3.0 ft. lateral spacing
- 7/32 inch perfs 2.5 ft. perforation spacing
- No Effluent filter & alarm
- 3 clean out & valve box assemblies
- 24.0 ft. Total sand ABSORPTION width (minimum)
- 0.0 ft. upslope and sideslope (sand beyond rockbed, minimum)
- 14.0 ft. Downslope (sand beyond rockbed, minimum)
- Specific slope ratios give BERM widths (topsoil beyond rockbed) of:
 

4:1 upslope ratio	10 ft. upslope berm
4:1 sideslope	12 ft. sideslope berms
4:1 downslope	18 ft. downslope berm



**Note:**  
 For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.  
 For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

Rock Bed:	21.0 yd <sup>3</sup> or *1.4=	29 ton	6 inches under pipe
Mound Sand:	102 yd <sup>3</sup> or *1.4=	142 ton	calculation based on 3:1 1/4:1 slope from top of rockbed
Loamy Cap:	63 yd <sup>3</sup> or *1.4=	88 ton	6" deep
Topsoil:	74 yd <sup>3</sup> or *1.4=	104 ton	6" deep

## INSPECTOR CHECKLIST - mound

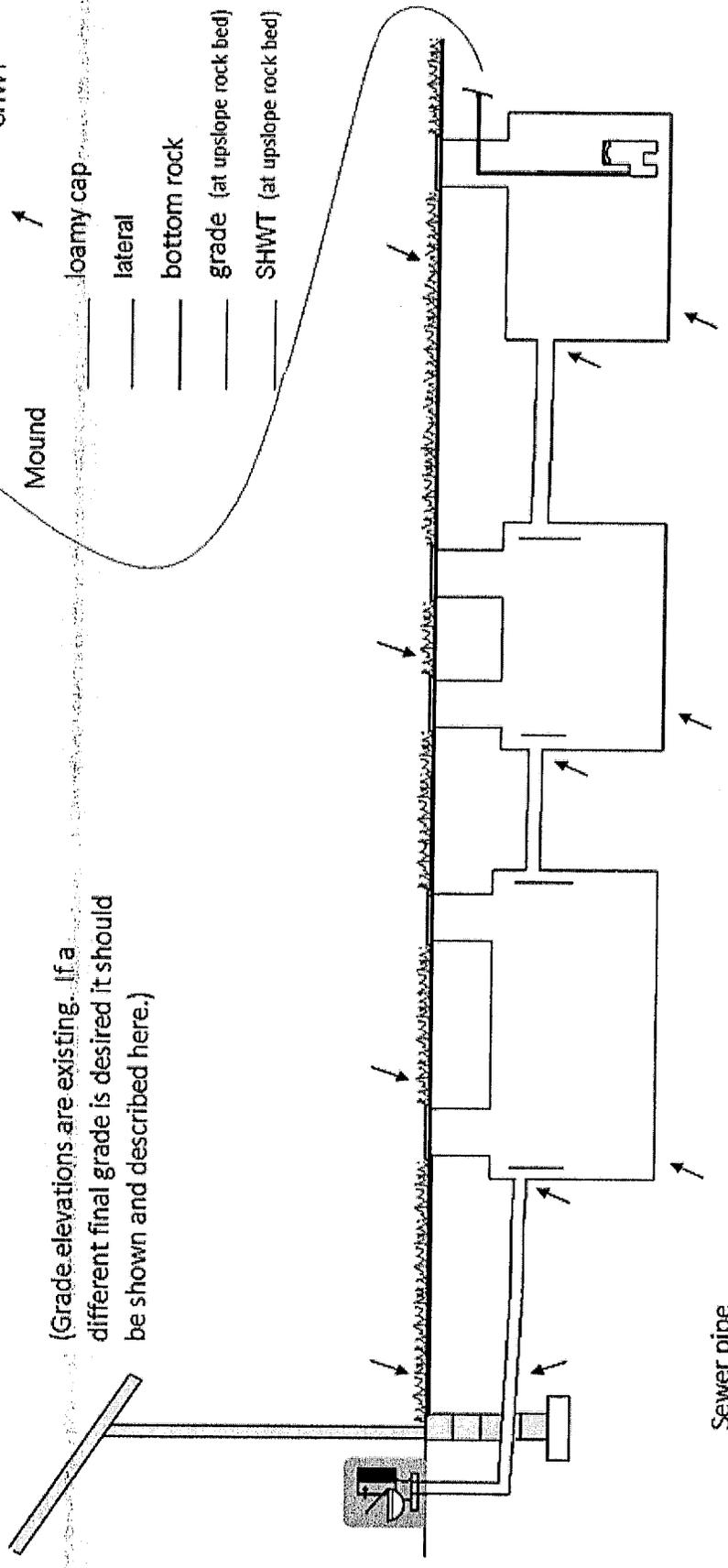
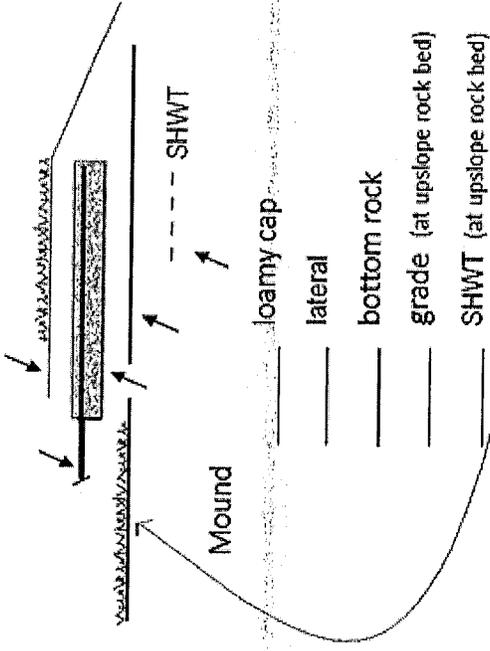
14584 Southshore Circle Lake Pake MN

- WELL setbacks: 20'- 50' to sewer line req's MDH pressure test form (5 psi for 15 min)  
50' to everything 100' to drainfield with shallow well
- PROPERTY LINES setback: 10' to everything
- Road setback: platted: 10' prop line. Metes & bounds: out of road easement, or outer ditch.
- LAKE / BLUFF setback: 20' for bluff. Lakes: GD \_\_, RD \_\_, NE \_\_. Protected wetland \_\_.
- Building setbacks: 10' for everything, 20' for dispersal area.
- WATER LINE under pressure 10' to bed, tank & sewer line. (else sewer line > 12" below)
  
- Sewer line & tank connection (no hard 90's, long sweep 90 or 2-45's, slope minimum 1" in 8' = 1%)  
(no depth req's, clean out every 100', Sch 40 pipe)
  
- Septic tank and risers (water tight risers, baffles, insulated, proper depth, existing verified by pumping)  
mfg \_\_\_\_\_ 2250 gallons none \_\_\_\_\_
- Riser over outlet, riser over inlet or center, and 6"+ inspection pipe over any remaining baffles.
- No effluent filter & alarm
- Dose tank, risers and piping (water tight risers, insulated, proper depth, drainback)  
mfg \_\_\_\_\_ 1000 gallons
  
- dose pump \_\_\_\_\_ 42 gpm 13 head VERIFY PUMP CURVE
- verify that installed "vertical lift from pump to laterals" is no more than design value of 7 feet
- float setting drop 15.9 inches at 12.0 gpi "DESIGNED" 9.0 inches approx float tether length
- Optional Time dosing of:  
4.5 min ON 8.5 hr OFF
- 191.0 gal dose divided by \_\_\_\_\_ gpi "INSTALLED" = \_\_\_\_\_ inches float drop (field corrected)
- LABEL pump requirements and drawdown on riser or panel
- Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's)  
2.0 inch supply pipe; Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+.
- splice box / control panel / electrical connections / Hi Level Alarm
- flow measurement: CT, ETM, time dosed, home water meter
- mound absorption area rough up
- mound rock dimensions 10.0 X 62.5
- Sand lift depth 12 inches. (Jar test : 2" sand leaves < 1/8" silt after 30 min)
  
- Absorption Sand beyond rock 0.0 upslope 14.0 downslope
- Bermed topsoil beyond rockbed 10 upslope 12 sideslope 18 downslope
  
- cover depth of 12-18" VERIFY
- 3 laterals (1-2' from edge of rock)
- 2.00 inch pipe size (Sch40 pipe & fittings)
- 3.0 ft lateral spacing
  
- 7/32 inch perforations
- 2.5 ft perforation spacing
  
- Air inlet at end of laterals, and at top feed manifold if necessary. VERIFY
- clean outs (no hard 90's)
- 4" inspection pipe to bottom of rock, anchored VERIFY
  
- Abandon existing system - if necessary  Re-use existing tank certification
- monitoring plan and type \_\_\_\_\_
- well abandonment form: - if necessary

# System Elevations

\_\_\_\_\_ benchmark

(Grade elevations are existing. If a different final grade is desired it should be shown and described here.)



- Sewer pipe exiting house \_\_\_\_\_
- Septic Tank \_\_\_\_\_ Grade \_\_\_\_\_
- Septic Tank \_\_\_\_\_ Grade \_\_\_\_\_
- Septic Tank (if applicable) \_\_\_\_\_ Grade \_\_\_\_\_
- Pump Tank \_\_\_\_\_ Grade \_\_\_\_\_
- \_\_\_\_\_ Pipe \_\_\_\_\_ inlet \_\_\_\_\_
- \_\_\_\_\_ Tank bottom \_\_\_\_\_ Tank bottom \_\_\_\_\_

# Soil Observation Log

Owner Information		
Property Owner / project:	<u>Dillon Oak</u>	Date <u>9/3/2022</u>
Property Address / PID:	<u>14584 Southshore Circle Lake Park</u>	

Soil Survey Information		<input type="checkbox"/> refer to attached soil survey
Parent mat'l's:	<input type="checkbox"/> Till <input type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input type="checkbox"/> Alluvium <input type="checkbox"/> Organic <input type="checkbox"/> Bedrock	
landscape position:	<input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Side slope <input type="checkbox"/> Toe slope	
soil survey map units:	_____ slope <u>2</u> % direction- <u>downhill</u>	

Soil Log #1							
		<input type="checkbox"/> Boring	<input type="checkbox"/> Pit	Elevation _____	Depth to SHWT _____		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

Comments:

14584 Southshore Circle Lake Pake MN

**Soil Log #2**

		<input type="checkbox"/> Boring	<input type="checkbox"/> Pit	Elevation _____		Depth to SHWT _____		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape	
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive	
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive	
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive	
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive	
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive	

14584 Southshore Circle Lake Pake MN

**Soil Log #3**

		<input type="checkbox"/> Boring	<input type="checkbox"/> Pit	Elevation _____		Depth to SHWT _____		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape	
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive	
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive	
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive	
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive	
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive	

I hereby certify this work was completed in accordance with MN 7080 and any local req's.

\_\_\_\_\_  
Designer Signature

\_\_\_\_\_  
Company

\_\_\_\_\_  
License #

\_\_\_\_\_  
LUG soil verify Signature

+

\_\_\_\_\_  
LUG media elev/depth Signature

= Soil Separation Report

14584 Southshore Circle Lake Pake MN

**Soil Log #4**

<input type="checkbox"/> Boring <input type="checkbox"/> Pit		Elevation _____		Depth to SHWT _____			
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

14584 Southshore Circle Lake Pake MN

**Soil Log #5**

<input type="checkbox"/> Boring <input type="checkbox"/> Pit		Elevation _____		Depth to SHWT _____			
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

*I hereby certify this work was completed in accordance with MN 7080 and any local req's.*

\_\_\_\_\_  
Designer Signature

\_\_\_\_\_  
Company

\_\_\_\_\_  
License #

# Preliminary & Field Evaluation Form

Owner Information			
Date	9/3/2022	Sec / Twp / Rng	
Parcel ID		LUG (county, city, township)	
Property Owner:	Dillon Oak	Owners address (if different)	
Property Address:	14584 Southshore Circle Lake Pake MN		
City / State / Zip:			

Flow Information and Waste Type / Strength			
Estimated Design flow	750	Anticipated Waste strength	<input type="checkbox"/> HI Strength <input type="checkbox"/> Domestic
Comments:		Any Non-Domestic Waste	<input type="checkbox"/> Yes (class V) <input type="checkbox"/> No
		Sewage ejector/grinder pump	<input type="checkbox"/> Yes <input type="checkbox"/> No
		Water softener	<input type="checkbox"/> Yes <input type="checkbox"/> No
		Garbage Disposal	<input type="checkbox"/> Yes <input type="checkbox"/> No
		Daycare / In home business	<input type="checkbox"/> Yes <input type="checkbox"/> No

Site Information				
Existing & proposed lot improvements located (see site map)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Well casing depth	
Easements on lot located (see site map)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Drainfield w/in 100' of residential well	<input type="checkbox"/> Yes <input type="checkbox"/> No
Property lines determined (see site map)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in 200' of transient noncommunity water supply (TNCWS)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Req'd setbacks determined (see site map)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Utilities located & identified (gopher state one call)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Buried water supply pipe w/in 50' of system	<input type="checkbox"/> Yes <input type="checkbox"/> No
Access for system maintenance (shown on site map)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Site located in Shoreland (w/in 1000' of lake, 300' of river)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Soil treatment area protected	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Site map prepared with previous items included	<input type="checkbox"/> Yes <input type="checkbox"/> No
Construction related issues	<hr/> <hr/>			

### Soil Information

			Evidence of site: Cut <input type="checkbox"/> Yes <input type="checkbox"/> No Filled <input type="checkbox"/> Yes <input type="checkbox"/> No Compacted <input type="checkbox"/> Yes <input type="checkbox"/> No Disturbed <input type="checkbox"/> Yes <input type="checkbox"/> No
Original soils	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Soil logs completed and attached	<input type="checkbox"/> Yes <input type="checkbox"/> No	Perk test completed and attached (if applicable)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Soil loading rate (gpd/ft <sup>2</sup> )	<u>0.50</u>	Percolation rate (if applicable)	_____
Depth/elev to SHWT	<u>27.00</u>	Flooding or run-on potential (comments)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Depth to system bottom maximum (or elev minimum)	<u>-12.00</u>	Flood elevation (if applicable)	_____
Depth/elev to standing water (if applicable)	_____	Elevation of ordinary high water level (if applicable)	_____
Depth/elev to bedrock (if applicable)	_____	Floodplain designation and elev - 100 yr/10 yr (if applicable)	_____
Soil Survey information determined (see attachment)	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Differences between soil survey and field evaluation (if applicable)	_____ _____		

*I hereby certify this evaluation was completed in accordance with MN 7080 and any local req's.*

Designer Signature	Company	License #
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# Owners Septic System Management Plan

Date: 9/3/2022

Property Address: 1584 Southshore Circle Lake Pake IV

Septic Systems can be an expensive investment, good maintenance will ensure they last a lifetime. The purpose of a septic system is to properly "decompose" the pollutants before the water is recycled back into the groundwater. If you're not taking this seriously, ask yourself where your well water comes from.

Your septic design lists all the components of your system and their location. Keep the design, this management plan and the UofM "Septic System Owners Guide" in a safe place for future reference. For a copy of the Owners guide call the University of MN at 1-800-876-8636.

Some of the following tasks you can do yourself, some require a professional, but is it YOUR responsibility to see that it gets done.

## Homeowner Tasks

- Do your best to conserve water. Don't overload your septic with multiple large water uses at the same time or on the same day.
- Fix household leaks promptly (leaky toilet, dripping faucets).
- Limit bleach and anti-bacterial products. Use Biodegradable dishwasher detergent.
- Consider a lint filter on your clothes washer.
- Regularly check for wet or spongy soil around your drainfield.
- Have a septic professional check your tanks every 3 years to determine if they need pumping.
- If you have a septic tank filter (effluent filter) clean it on a regular basis (or have a professional do it).
- If a septic alarm goes off, call your septic professional to diagnose the problem.
- Notify the County/City/Township when this management plan is not being met.
- Be aware of and protect your secondary drainfield site.

## Professional Tasks

- Disclose the location of the secondary drainfield (if applicable).
- Respond to alarms and diagnose problems as needed.
- Review water use with the owner, check for a "soggy" drainfield.
- Pump the septic tanks as needed and ensure they are in proper working order.
- Verify the pump, dose amount, HI Level Alarm & drainback are all working properly.

*"As the owner, I understand it is my responsibility to properly operate and maintain this septic system".*

Property Owner Signature: \_\_\_\_\_ Date \_\_\_\_\_