# **Preliminary & Field Evaluation Form**

		Ov	vner Information		
Date 6/	6/7/2019		Sec / Twp / Rng	S- 3, T-49, F	2-23
Parcel ID 29	29-1-354600		LUG (county, city, township)	Aitkin Co.	1-20
Property Owner: D	ale Richter		Owners address (if different)	7 HAMIT 00.	
Property Address: 51	1411 189th Ave	. McGregor MN 5		<b>₹</b> 4	
City / State / Zip:			St. Joseph		
		low Informatio	n and Waste Type / Strengt	14	
Estimated Design flow				· III	
		•	Anticipated Waste strength	☐ Hi Strength	☑ Domestic
Comments:			Any Non-Domestic Waste	☐ Yes (class V)	☑ No
Install	Pressure bed odd	shaped.	Sewage ejector/grinder pump	☐ Yes	☑ No
			Water softener	☐ Yes	☑ No
			Garbage Disposal	☐ Yes	☑ No
			Daycare / In home business	☐ Yes	☑ No
		Si	te Information		
Existing & proposed lo mprovements located	t	es 🗆 No	Well casing depth	Proposed dee	p well
Easements on lot locate see site map)	ed □Yo	es 🖸 No	Drainfield w/in 100' of residential well	☑ Yes	□ No
Property lines determin see site map)	ed ☑ Ye	es 🗆 No	Site w/in 200' of transient noncommunity water supply (T	□ Yes 'NCWS)	☑ No
Req'd setbacks determinates see site map)	ned ☑ Ye	es 🗋 No	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS)	☐ Yes	☑ No
Itilities located & ident gopher state one call)	tified 🗆 Ye	es 🖸 No	Buried water supply pipe w/in 50' of system	☐Yes	☑ No
ccess for system main hown on site map)	tenance 🗹 Ye	es 🗆 No	Site located in Shoreland (w/in 1000' of lake, 300' of river)	☑ Yes	□ No
	ected	es □ No	Site map prepared with previous items included	☑ Yes	□ No
-					
oil treatment area proto	ues Apr	orox. 6 ft. x 20 ft o	f pressure bed will be located in a	area of existing	trailer

	4		Soil Information		
Original soils	☑ Yes	□No	Evidence of site: Cut Filled Compacted Disturbed	☐ Yes ☐ Yes ☐ Yes ☐ Yes	☑ No ☑ No ☑ No ☑ No
Soil logs completed and attached	☑ Yes	□ No	Perk test completed and attached (if applicable)	☐ Yes	☑ No
Soil loading rate (gpd/ft²)	0.7	8	Percolation rate (if applicable)		
Depth/elev to SHWT  Depth to system bottom	(+84		Flooding or run-on potential (comments)	☐ Yes	☑ No
maximum (or elev minimum)  Depth/elev to standing  water (if applicable)			Flood elevation (if applicable)		
Depth/elev to bedrock (if applicable)	1		Elevation of ordinary high water level (if applicable)		
Soil Survey information determined (see attachment)	☑ Yes	□ No	Floodplain designation and elev - 100 yr/10 yr (if applicable)		
Differences between soil survey and field evaluation (if applicable)	_				
	-				

I hereby certify this evaluation was complet	ed in accordance with MN 7080 and any local reg's.	
Oell Bruss		
Designer Menature	Brummer Septic LLC. Company	<u>L-1347</u>
	Company	License #

## Soil Observation Log

www.SepticResource.com vers 12.4 **Owner Information** Property Owner / project: Dale Richter 6/7/2019 Date Property Address / PID: 51411 189th Ave. McGregor MN 55760 **Soil Survey Information** ☐ refer to attached soil survey Parent matl's: ☑ TIII ☑ Outwash □ Lacustrine ☐ Alluvium ☐ Organic ☐ Bedrock landscape position: ☐ Summit ☐ Shoulder ☐ Side slope ☐ Toe slope soil survey map units: 625 & 454E 3 % direction-West Soil Log #1 ☑ Boring ☐ Pit Elevation 98.6 Depth to SHWT (+84")Depth (in) fragment % Texture matrix color redox color consistence grade shape Topsoil 0-6 <35 10YR3/2 Sandy Loam Loose Loose Granular 6 - 14 Sandy Loam <35 10YR5/4 Loose Loose Granular 14 - 62 Med Sand <35 10YR4/4 Loose Loose Granular 62 - 84 Med Sand <35 10YR5/4 Loose Loose Granular <35 Comments:

51411 189	th Ave. McGreg		0 8	oil Log #2			
	☑ Boring		Elevation	97.7'	Depth to SHW	Γ (+84")	
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	- shape
0 - 6	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
6 - 14	Sandy Loam	<35	1 <b>0</b> YR5/4		Loose	Loose	Granular
14 - 62	Med Sand	<35	10YR4/4		Loose	Loose	Granular
62 - 84	Med Sand	<35	10YR5/4		Loose	Loose	Granular
51411 189t	h Ave. McGrego	or MN 55760 □ Pit	) So	oil Log #3	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 bloc prismatic plat massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular bloci prismatic plat massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular bloc prismatic plat massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular bloci prismatic plat massive
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular block prismatic plat massive

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

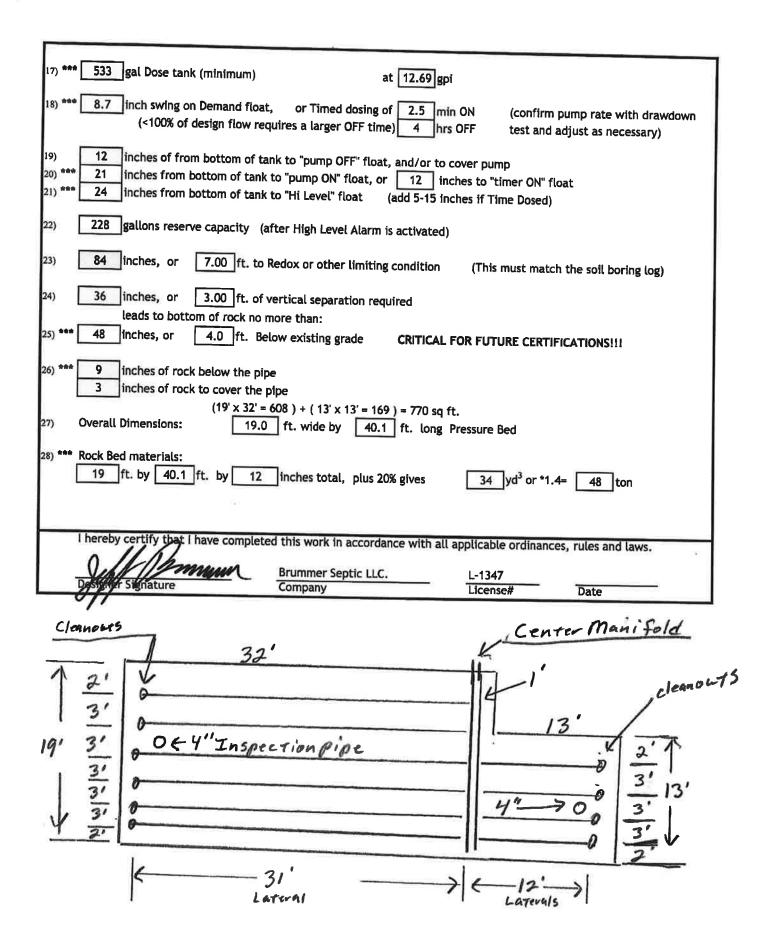
Will Brown	Brummer Septic LLC.	L-1347	
Designer Signature	Company	License #	

version 3.2

# Pressure Bed Design

contact Troy Johnson at www.SepticResource.com for questions or comments

		Property Owner:	Dale Richter	Date:	6/7/2019	
١		Site Address:	51411 189th Ave. McGregor MN 55760	PID:	29-1-354600	
ı		Comments:	Will be Odd Shaped			
		instructions:	= req'd input = input or default		= calculated field	*** = installer info
1	)	4 bedroom	Type I Residential	Systen	n	
2)	<b>9</b>	600 GPD design flo	ow .			
3)	u	No Garbage dispo	sal or pumped to septic			
4)	***	1000 Gallon septic	Install Jacobson 1650 Compartment to tank (minimum) Tank options:		nana	
5)		0.78 GPD/ft <sup>2</sup> Soil Le		or	762 ft² LUG minim	um
6)	***	19.0 ft desired bed (25' maxim		1		
7	***	3.0 ft lateral spac		(maxin	num 3 for both)	
			middle feed manif	old con		
8)	nes	12 laterals	19.1 feet long 6.5 perfs / latera		78 perfs total	
9)	***	7/32 inch perfs at	1 feet residual head gives 0.56	gpm fle	f starts at the middle ow rate per perforation	feed manifold) on
		for this perf size & spa	( If bed has > 1' of cover, increase reacing, & pipe size on line 12, max perfs/later	sidual h	read for cleanout req's	5)
				ral =	14 , line #8 must	be less> OK
10	) [	6 doses per day	( 4 minimum)			
11		100 gallons per dos	se (treatment volume)			
12	*** [	1.25 inch diameter	laterals (or smaller) will meet "5x pipe volun laterals (or smaller) must be used to meet "4 laterals (or smaller) will meet "3x pipe volun	4x pipe v	volume" requirement	
13)	***	60 feet of	2.0 inch supply line leads to 10		of drainback volume eed" to control the dr	ainhack)
14)		110 gallons TOTAL	pump out volume (treatment + drainback)	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
15)	[	10 feet vertical lif	ft from pump to dispersal area, leads to a			
16)	*** [	44 GPM @ [ ( >50 gpm may	19 feet of head, Pump requirement require additional 3-6' head allowance for d	ischarge	e assy)	



# **Installer Summary**

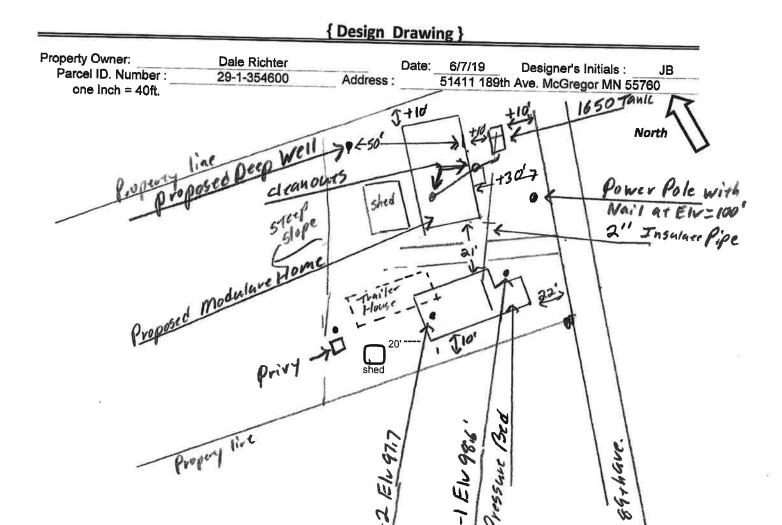
1000 gallon Septic tank (minimum) none Install Jacobson 1650
533 gallon Dose tank (minimum) at 12.69 gpi
44 GPM @ 19 ft. of head, Pump required
8.7 inch swing on Demand float or 2.5 minutes ON time & 4 hours OFF time
inches from bottom of tank to "pump ON" float, or 24 inches from bottom of tank to "Hi Level Alarm" float
60 ft. of 2.0 inch supply line with middle feed manifold connection
12 laterals 1.25 inch diameter 19.1 feet long 3.0 ft lateral spacing
7/32 inch perfs 3.0 ft perforation spacing
No Effluent filter & alarm  12 clean out & valve box assembly
Pressure Bed:  19.0 ft. wide by  40.1 ft. Long
Bottom of rock no more than:  48 inches, or  4.0 ft. Below existing grade
9 inches of rock below the pipe
Overall Dimensions: 19 ft. wide by 40.1 ft. long Pressure Bed
Rock Bed materials: 34 yd <sup>3</sup> or *1.4= 48 ton

# INSPECTOR CHECKLIST - Pressure bed

	WELL setbacks: 20' to pressure tested sewer line (5 psi for 15 min)
	50' to everything 100' to dispersal area with shallow well  PROPERTY LINES setback: 10' to everything  Road setback: outer ditch, or 33' from center of township road, or 65' from center of cnty road  LAKE / BLUFF setback: 20' for bluff. Lakes: gen 50', rec 75', nat 150'. Protected wetland 50'.  Building setbacks: 10' to bed, tank & sewer line.
	Sewer line & baffle connection (no 90's, 3' between 45's, slope of 1/8"/ft, or 1" in 8', or 1' in 96'. (no depth req's, clean out every 100', Sch 40 D2665 or F891)
	Septic tank and risers (water tight, insulated, proper depth, existing verified by pumping)  mfg 1000 gallons none
	Riser over outlet, riser over inlet, 6"+ inspection pipe over any remaining baffles.
	No effluent filter & alarm
	Dose tank risers and piping (water tight, insulated, proper depth, drainback)  mfg 533gallons
	dose pump 44 gpm 19 head VERIFY PUMP CURVE 2.5 M on 4 H off
	float setting drop 8.7 inches
	LABEL pump requirements and drawdown on riser or panel  Cam lock, weep hole, supply line access (no hard 90, pipes reachable from grade)
	supply pipe sloped 1/8"+, supported by sch40 sleeve, and buried 6"+.
	splice box / control panel / electrical connections
	Bed dimensions19 X40.1
	Rock depth below pipe 9 inches
	Rock bottom elevation 48.0 inches from Grade to bottom of rock (max)
	cover depth of 12"+ VERIFY
	12 laterals (1-2' from edge of rock)  1.25 inch pipe size (bigger is ok but do not exceed 4 times pipe volume)  3.0 ft lateral spacing
	7/32 inch perforations (smaller is ok)
	3.0 ft perforation spacing
	Air inlet at end of laterals, and at top feed manifold. VERIFY clean outs (deep bed 2' of head) (no hard 90's) 4" inspection pipe to bottom of rock, anchored VERIFY
Ē	Abandon existing system if necessary monitoring plan and type

## Mound Design Notes - Aitkin county

_	_		
P	Property Owner: Dale Richter Date:		6/7/2019
	Site Address: 51411 189th Ave. McGregor MN 55760 PID: 2	29-1-	354600
	Comments: Type I Pressure Bed / 4 bed		
		1.0011	1
1	This is a type I Pressure Bed for a proposed 4 bedroom House.		
_	Soil separation is at 84" with a West slope of 1.2' across pressure hed a	геа.	
2	2 There are no existing wells with 100' of drainfield area. Proposed Deep w	æll m	leets setbacks.
3	The proposed pressure bed will be partly constructed under existing traile	er ho	IISS SDOTOV SH V 20 H
	Existing trailer house is on blocks, not footings, and will be removed. Trail	iler is	dry, no plumbina.
4	4 Bench Wark (Elv. = 100') is nail on power pole near driveway.		
5	5 The Pressure bed area will be 19 ft. wide and 32 ft. long West of center n	nanif	old
	and 13ft, X 13ft. East of center manifold. See Map. Bottom of rockbed El	lv= 9	6'.
	The NW corner is the lowest corner, it is under existing trailer house to be	e rem	noved.
	Elevation of the bottom of the rock bed should be approx. 96' can be high	ner if	it will fit.
	The area size of the rock bed is 19 x 32' plus 13' x 13' for approx. 770 sq.	., ft. '	
6	Cover rock bed with fabric and 12" to 18" of soil.		
0	6 Installer to double check bench mark. Installer should confirm bench mark	k he	ight Elv. with inspector.
_	mistaller should record bench mark Elv. and bottom of rockbed height on i	instal	llation inspection form.
7	that the sons do not get compacted, and area stavs protect	ed.	
0	8 The Jacobson 1650 Combo tank will be gravity flow from dwelling. Install	the p	ump for 6 demand doses
	per day. approx. 110 gallons per dose, 8.7 inches of tank level. Install ala	rm at	t 3 inches from pump on level.
۵	Install pump with 44 GPM and 19 Ft, head.  9 Install all manholes, inspection pipes and close suits to great an above.		
10	in the more of more chart pipes and clean-buts to grade or above. In	ncludi	ing existing tank.
	10 Install a 2" supply pipe from tank to Center manifold in rock bed, install so	pipe	drains back to tank.
11	Insulate 2" supply pipe from tank to manifold under driveway.		
• •	11 Install 1.5" laterals with 9" of rock under them. Install clean-outs at far end <b>Drill 7/32" perf holes spaced 3 ft. apart.</b>	i of la	aterals.( 12" total inches of rock)
	Install inspection nine to bottom of rock had account in week had		
12	Install inspection pipe to bottom of rock bed, secure in rock bed and raise	to at	pove final grade.
-	12 Installer will pressure test and squirt height laterals when finished. Give in	to to	owner.
13	13 Owner is responsible to maintain protection of bed area through construct		#havan and all a
	to Manifest Protection of Bed area through construct	ion o	or nouse and septic system.
	Designed to Aitkin Co. and MPCA recommendations and requirements.		
	4.0		
	0.1/16		
Dec	Brummer Septic LLC.		L-1347
7	Design Company		License#

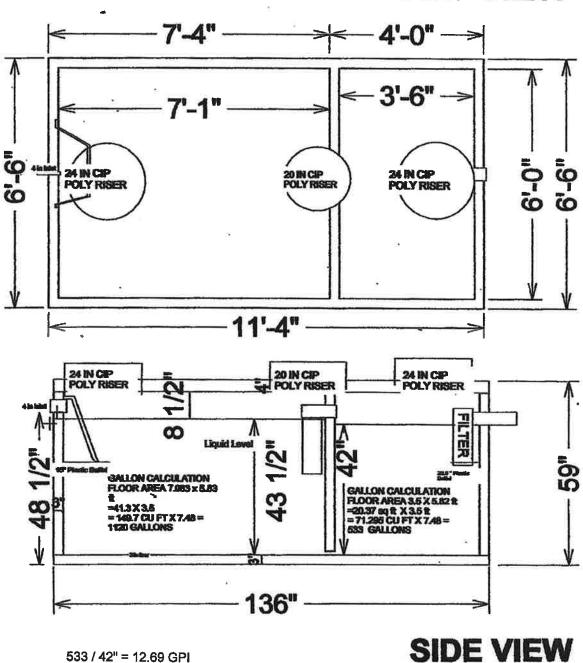


	Surface/ SHWT	Nail on Power Po	le = Bench Mark 100'	Existing Grade
Soil Bore 1	98.6784"	Bench Mark	100'	Grade at NW bed corner Elv.= 97.5'
Soil Bore 2		Ground Elv. BM	98.6'	Grade at NE bed corner Ely.= 98.6'
Soil Bore 3		Ground Elv. Tank	98.2'	Bottom of Rockbed Elv.= 96'
	Ground at	Proposed house	98.4'	Driveway at 2" supply pipe Elv.= 98.7

Please show all that apply ( Existing )	Please Draw to Scale with North to Top or Left Side of Page:			
Wells within 100ft. Of Drain field.		Access Route for Tank Maintenance		
Water lines within 10 ft. of Drain field.	Component Location	Property Lines		
Drain field Areas:	OHW ordinary high water	Structures		
	Lot Easements	Setbacks		

# 1650 Gallon 2 Compartment Septic Tank

# **TOP VIEW**



533 / 42" = 12.69 GPI

Drawings Owned BY Jacobson Precast, Inc. 36641 HWY 169, Aitkin, Mn 56431



## **Detailed Parcel Report**

Parcel Number: 29-1-354600

## **General Information**

Township/City:

SHAMROCK TWP

**Taxpayer Name:** 

RICHTER, DALE & JUDY

**Taxpayer Address:** 

**PO BOX 164** 

ST JOSEPH MN 56374

**Property Address:** 

51411 189th Ave

Township:

49

Lake Number:

1906200

Range:

23

Lake Name:

BIG SANDY - BACK LOT

Section:

3

Acres:

0.00

Green Acres:

No

School District:

4.00

Plat:

**BIG SANDY LAKE HIGHLANDS** 

**Brief Legal Description:** 

**LOT 49** 

## **Tax Information**

Class Code 1:

Non-Comm Seasonal Residential Recreational

Class Code 2:

Unclassified

Class Code 3:

Unclassified

Homestead:

Non Homestead

Assessment Year:

2019

Estimated Land Value:

\$5,000.00

**Estimated Building Value:** 

\$1,500.00

**Estimated Total Value:** 

\$6,500.00

**Prior Year Total Taxable Value:** 

\$6,400.00

**Current Year Net Tax (Specials Not Included):** 

\$56.00

**Total Special Assessments:** 

\$0.00

\*\*Current Year Balance Not Including Penalty:

\$0.00

**Delinquent Taxes:** 

No

<sup>\*</sup> For more information on delinquent taxes, please call the Aitkin County Treasurer's Office at 218-927-7325.

<sup>\*\*</sup> Balance Due on a parcel does not include late payment penalties.



## **Detailed Parcel Report**

Parcel Number: 29-1-354700

## **General Information**

Township/City:

SHAMROCK TWP

**Taxpayer Name:** 

RICHTER, DALE & JUDY

**Taxpayer Address:** 

**PO BOX 164** 

ST JOSEPH MN 56374

**Property Address:** 

Township:

49

Lake Number:

1906200

Range:

23

Lake Name:

**BIG SANDY - BACK LOT** 

Section:

3

Acres:

0.00

**Green Acres:** 

No

School District:

4.00

Plat:

**BIG SANDY LAKE HIGHLANDS** 

**Brief Legal Description:** 

**LOT 50** 

## **Tax Information**

Class Code 1:

Non-Comm Seasonal Residential Recreational

Class Code 2:

Unclassified

Class Code 3:

Unclassified

Homestead:

Non Homestead

Assessment Year:

2019

Estimated Land Value:

\$22,000.00

**Estimated Building Value:** 

\$5,000.00

**Estimated Total Value:** 

\$27,000.00

**Prior Year Total Taxable Value:** 

\$26,700.00

**Current Year Net Tax (Specials Not Included):** 

\$236.00

**Total Special Assessments:** 

\$0.00

\*\*Current Year Balance Not Including Penalty:

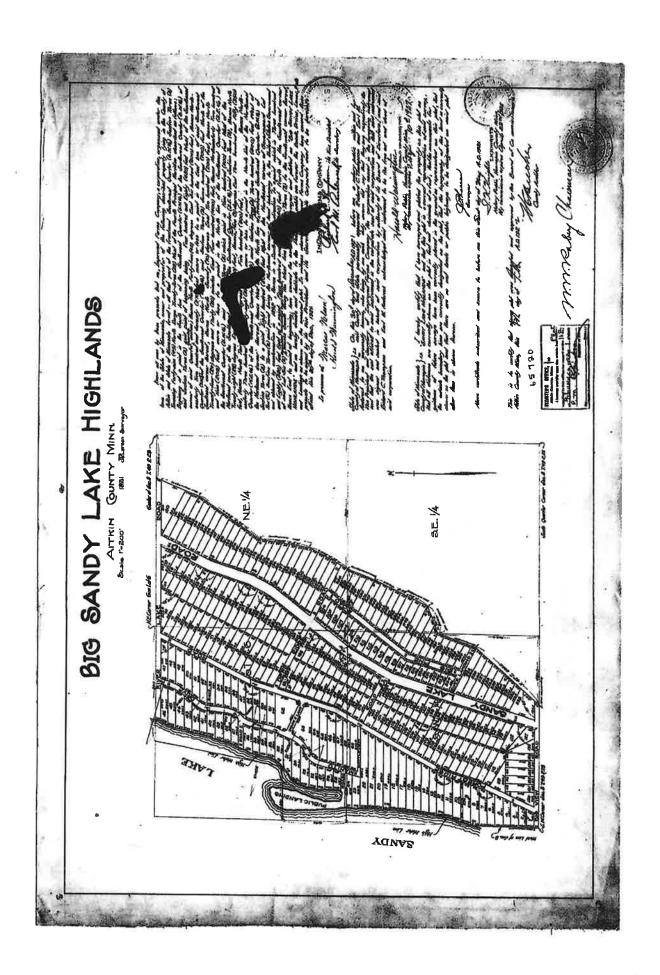
\$0.00

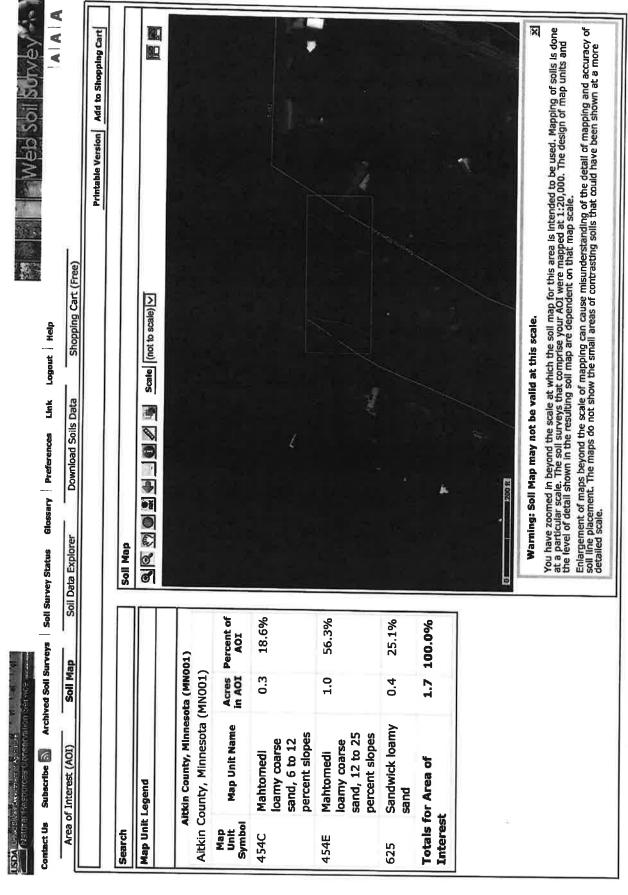
**Delinquent Taxes:** 

No

<sup>\*</sup> For more information on delinquent taxes, please call the Aitkin County Treasurer's Office at 218-927-7325.

<sup>\*\*</sup> Balance Due on a parcel does not include late payment penalties.





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## Aitkin County, Minnesota

# 454C—Mahtomedi loamy coarse sand, 6 to 12 percent slopes

### **Map Unit Setting**

National map unit symbol: gjgx Elevation: 980 to 1,640 feet

Mean annual precipitation: 25 to 30 inches
Mean annual air temperature: 39 to 45 degrees F

Frost-free period: 120 to 140 days
Farmland classification: Not prime farmland

#### Map Unit Composition

Mahtomedi and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

### **Description of Mahtomedi**

#### Setting

Landform: Outwash plains

Landform position (two-dimensional): Backslope

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy and gravelly outwash

#### Typical profile

A - 0 to 4 inches: loamy coarse sand E - 4 to 17 inches: gravelly coarse sand Bw - 17 to 38 inches: gravelly sand C - 38 to 60 inches: gravelly sand

Properties and qualities

Slope: 6 to 12 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High to

very high (6.00 to 20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent Available water storage in profile: Low (about 4.1 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Forage suitability group: Sandy (G090AN022MN)

Hydric soil rating: No



### **Minor Components**

#### Leafriver and similar soils

Percent of map unit: 2 percent Landform: Depressions Hydric soil rating: Yes

#### Meehan and similar soils

Percent of map unit: 2 percent Hydric soil rating: No

### Newson and similar solls

Percent of map unit: 2 percent Landform: Swales Hydric soil rating: Yes

#### Soils with less gravel

Percent of map unit: 2 percent Hydric soil rating: No

#### Solls with more gravel

Percent of map unit: 2 percent Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 19, Sep 12, 2018

## **Aitkin County, Minnesota**

### 454E—Mahtomedi loamy coarse sand, 12 to 25 percent slopes

#### Map Unit Setting

National map unit symbol: gjgy Elevation: 980 to 1,640 feet

Mean annual precipitation: 25 to 30 inches Mean annual air temperature: 39 to 45 degrees F

Frost-free period: 120 to 140 days

Farmland classification: Not prime farmland

#### Map Unit Composition

Mahtomedi and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Mahtomedi**

#### Setting

Landform: Outwash plains

Landform position (two-dimensional): Shoulder, backslope

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy and gravelly outwash

#### Typical profile

A - 0 to 1 inches: loamy coarse sand E - 1 to 14 inches: loamy coarse sand Bw - 14 to 25 inches: gravelly sand C - 25 to 60 inches: gravelly sand

#### Properties and qualities

Slope: 12 to 25 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High to

very high (6.00 to 20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent Available water storage in profile: Low (about 4.1 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Forage suitability group: Steep; Coarse Testure; Low AWC (G090AN018MN)



Hydric soil rating: No

#### **Minor Components**

#### Leafriver and similar soils

Percent of map unit: 2 percent Landform: Depressions Hydric soil rating: Yes

#### Meehan and similar soils

Percent of map unit: 2 percent Hydric soil rating: No

#### Newson and similar soils

Percent of map unit: 2 percent Landform: Swales Hydric soil rating: Yes

#### Soils with less gravel

Percent of map unit: 2 percent Hydric soil rating: No

#### Soils with more gravel

Percent of map unit: 2 percent Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 19, Sep 12, 2018

## Aitkin County, Minnesota

### 625—Sandwick loamy sand

#### **Map Unit Setting**

National map unit symbol: gjj4 Elevation: 980 to 1,310 feet

Mean annual precipitation: 20 to 27 inches
Mean annual air temperature: 37 to 41 degrees F

Frost-free period: 95 to 105 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Sandwick and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Sandwick**

#### Setting

Landform: Swales on moraines Down-slope shape: Linear Across-slope shape: Concave

Parent material: Sandy outwash over loamy till

#### Typical profile

E - 0 to 6 inches: loamy sand Bw,E' - 6 to 34 inches: sand 2E/B,2Btg - 34 to 55 inches: loam 2Cg - 55 to 60 inches: loam

#### Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high (0.20 to 0.60 in/hr) Depth to water table: About 6 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 20 percent Available water storage in profile: Low (about 5.8 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: C/D

Forage suitability group: Level Swale, Low AWC, Acid

(G088XN007MN) Hydric soil rating: Yes

#### **Minor Components**

### Alstad and similar solls

Percent of map unit: 3 percent Hydric soil rating: No

### Cutaway and similar soils

Percent of map unit: 3 percent Hydric soil rating: No

#### Dusler and similar solls

Percent of map unit: 3 percent Hydric soil rating: No

### Northwood and similar solls

Percent of map unit: 3 percent Landform: Depressions Hydric soil rating: Yes

#### Stuntz and similar soils

Percent of map unit: 3 percent Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 19, Sep 12, 2018

## **Subsurface Sewage Treatment System Management Plan**

Property Owner:	Dale Richter	Phone: (320 ) 630-64	146 Date: 6/7/2019	
Mailing Address: PO	. Box 164	City: St. Joesph MN		
Site Address: 51411	189th Ave.	City: McGregor MN	Zip: 55760	
		City; mooreger init	Zip:	
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.				
		months. My Sys	tem needs to be checked	
		months.	y <sup>36</sup> months.	
		months.		
(State requirements are based on MN Rules Chapter 7080.2450, Subp. 2 & 3)  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 c	onducted ( <i>circle one:</i> <u>DA</u>	<u>ILY WEEKLY MONTHLY)</u>	
Professional Management Tasks				
	Check to make sure tank is not lea	aking		
	Check and clean the in-tank efflue	•		
	Check the sludge/scum layer leve			
	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 cleanou	ts 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 Signature:  Date: 6-13-19				
Designer Signature:				

See Reverse Side for Management Log

## **Maintenance Log**

Activity	Date Accomplished			
Check frequently:	•			
Leaks: check for plumbing leaks				
Soil treatment area check for surfacing				
Lint filter: check, clean if needed				
Effluent screen: if owner-maintained				
Water usage rate (monitor frequency)				
Check annually:				
Caps: inspect, replace if needed				
Sludge & Scum/Pump				
Inlet & Outlet baffles				
Drainfield effluent leaks				
Pump, alarm, wiring				
Flush & clean laterals if cleanouts exists				
Other:				
Other:				
Notes: Check alarms and pumps at least once a year				
Pump septic & pump tanks at least once every three years.				
Mow Drainfield area at least once a year to keep trees and brush from growing in area.				
No parking or driving on drainfield area, no snowmobiles on drainfield area.				
Mitigation/corrective action plan:				

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