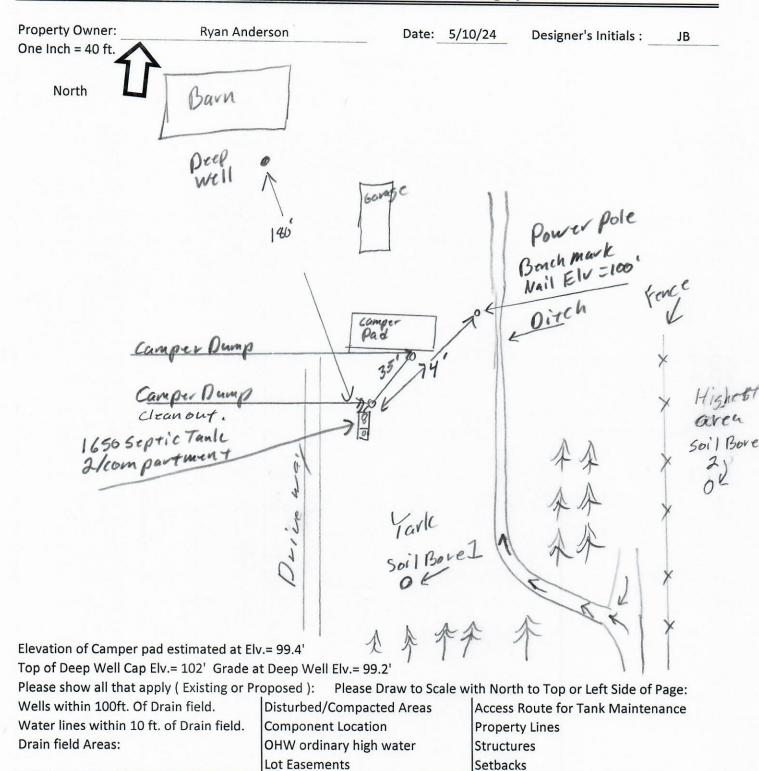
Aitkin County Holding Tank Design

Property Owner: Ryan Anderson		Date:	5/10/202	24	Cally 220	264 0255
Mailing Address: 38759 390th Ave.		Date.	3/10/202		-	0-364-0355
City: Aitkin	Chata			Home Pho	ne # :	
	State:	MN	Zip: 564	31		
Site Address: 36830 395th St			Parcel	Number:	31-0-	006600
City: Aitkin	State:	MN	Zip: 564	31		
Driving Directions if no address issued :						
Legal Description: 40 acres						
Sec: 3 Twp.: 47 Range: 26 Twp	o. Name : Sp	encer				
Lake / River :			Lake / River	Classification	on: Se	elect One
					allons per D	
FLOW DATA			Bedrooms	Class I	Class II	Class III
Number of Bedrooms: 2			2	300	225	180
Dwelling Classification:			3	450	300	218
System Type : II			4	600	375	256
Gallons per Day (GPD): 300			5	750	450	294
WELLS			6	900	525	332
Deep Well: Existing Deep			7	1050	600	370
			8	1200	675	408
Shallow Well : None	We	ells to be	sealed (if Ap	plicable) ?		
SETBACKS						
Tank(s) to Well: 180' Drainfield to	Well:	NA	Sev	ver Line to	Well :	
Tank(s) to House : 35' Drainfield to	House:	NA		Ai	r Test N	10
Tank(s) to Property Line: + 200' D	rainfield to I	Property	Line: NA	Α		
Additional System Notes and Information:	**					
No septic system on site. Owner wants camper ho		uture ho	use in 2- 5 ye	ars.		
Tested soils on the higher ground both are Type II	I soils.					
Owner wants a holding tank for now, might install	l type III mo	und in the	e future.			
Designer Name : Jeff Brummer			License	e Number :	L-1	347
Address: 14650 Agate Ridge Road	Cif	ty: Brain	erd			State : MN
Zip Code : 56401 Home Phone # :			Cell: 218-	821-0704		
E-Mail Address : brummerseptic@gmail.com						
Designer Signature :					Data. 5	140 12024
Designer Signature.			Page: 1	Of	Date: 5,	/10/2024

Aitkin County { Holding Tank Design }



Elevations: Benchmark Elevation: Proposed Holding tank grade Elv.= 99.1' Estimated Holding tank inlet Elv.= 97.4' Existing 1st tank inlet Elv.= 93.4'

Elv.= 100' Nail on Power pole NE of Proposed Camper pad.

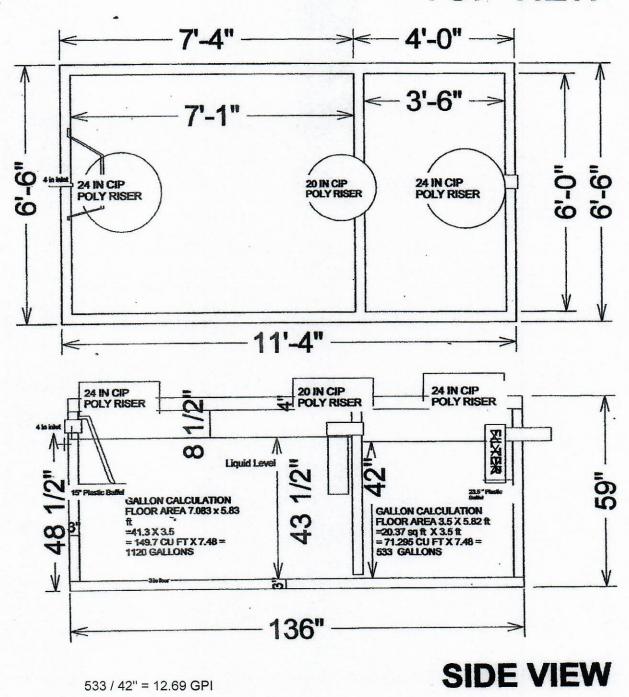
Grade at Power Pole Elv.= 98.1'
Estimated sewer pipe at Camper Pad Elv.= 98'
Bottom of Ditch East of Power pole Elv.= 95.8'

Aitkin County { Design Notes }

	Aickiii CO	ditty (Design Not	.cs /	
Property Owner:	Ryan Anderson	Date: 5/10	0/2024 Designe	er's Initials : JB
36830 395th St	. Aitkin MN 56431	1977	Pin :	-
Soils are Type III on th	nis farm. Owner wants a hold	ling tank to start with, may	install future type I	II mound
Existing deep well is		, , , , , , , , , , , , , , , , , , ,	motan ratare type i	ii iiiodiid.
Owner will hook a car	mper into holding tank 1st. V	Vants a 2nd camper dump	station near tank in	let.
	ouse in a couple of years.			
	2/Compartment septic tank		nk. (can use on mou	and in future)
	ow from Camper pad into ho			
	oove finished grade, add extr			
Land scape tank area	so surface water is diverted	around area and dose not	pond on tank.	
Install alarm in last co	ompartment at 20% of tanks	capacity, approx. 8 inches	off floor.	
	. 440 gallons of reserve capa			
	Setback from well, and will m		perty lines.	
Tank will meet 10 ft.		, , , , , , , , , , , , , , , , , , ,	porty mice.	
Home owner has a pu	umping agreement with local	pumper on file.		
Setbacks are		(Recommendations fo	r holding tanks)	
50 ft. from	m well	If Manual Alarm raise p	pipe to 36" above Fi	nished grade.
10 ft. from	m lot line	Insulate tank top		
10 ft. from	m road easement	Water proof outside if	installed in water if	available
10 ft. from	m structure.	Raise manholes 4" or n	nore above finished	grade for winter access
		Add extra soil on top o	f tanks for ballast	
Owner should install	protection around tank to ke	ep traffic off tank.		
Designer Name: Jeff	Rrummer		License Number :	L-1347
			License Number .	
Address: 14650 Ag	ate Ridge Road	City : Brainerd		State : MN
Zip Code : 56401	Home Phone # :	Cell:	218-821-0704	_
E-Mail Address : bru	mmerseptic@gmail.com			
Designer Signature :	Mommu	V		Date: 5/10/2024

1650 Gallon 2 Compartment Septic Tank

TOP VIEW



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

HOLDING TANK PUMPING SERVICE AGREEMENT

PID# 31-0-006600

Permit#	Address_36830 395t	St. Aitkin Mn 56431	
THIS AGREEMENT mber Lakes Septic Ser nereinaner referred t	VICE HEIGHBILE RETERED TO SE	itkin County Registered Septic Tank "Contractor", and Ryan Anderso	Pumper,
WHEREAS, Homeow services to protect th	vner desires and is required to retain e environment and to obtain a cert	individual sewage treatment system ho ificate of compliance from Aitkin Count	lding tank y; and
WHEREAS, the Contas necessary and in	ractor desires to provide sewage tr accordance with the terms and co	eatment system pumping services to Honditions outlined herein.	meowner
ionowa.		ises contained herein, Parties do hereby	
System, unless earl Agreement is intende the home pursuant to Department upon ex date, Homeowner sh County Subsurface Environmental Servic by the County of Aith	ier terminated as provided herein at terminated as provided herein at to arrange for the provision of pure a certificate of compliance to be is ecution of this Agreement. Homeofall have a permanent sewage treatment System Ordinal Department or connect to a Muricip of the individual sewage treatment or the individual sewage treatment.	connection to a Municipal Sewage To final installation connection to a Municipal Sewage To the parties understand and agree imping services so that Homeowner massued by the Aitkin County Environmentation when the further agrees that at the earliest ment system installed in accordance with nance and as approved by the Aitkin icipal Sewage Treatment System. Upon the system or connection to a municipal of amended or different contract, this Agreement System.	that this ay occupy I Services to possible the Aitkin County I approval
be pumped in according to the pumped in accordin	dance with the following: (gal.)/ (number of house of pumping: or hours of indication by tank alarm of lalarm): er is greater provide pumping services according	ner agrees that he/she shall not allow the and Homeowner agree that the holding ehold occupants multiplied by 75 gallon of lack of capacity (applicable only if systems to the regular pumping schedule or a Contractor as agreed by the parties for	tank shall s per day) tem has a
servicing for leaks u	ECTION. Holding tanks will be elow the operating depth and whe nce of major defects.	nspected by a licensed pumper at the ther tank tops, riser joints, and connect	e time of
understand that failu from the holding tan	re to have holding tank pumped as k, regardless of fault, may result in ance, and the homeowner may be	ner or Contractor shall be reported to wner or Contractor. Homeowner and Cherein specified or the discharge of any the suspension, cancellation or revoca required to vacate the premises.	Contracto
Contractor		Homeowner	-
Date 5/10/2024		Date	
Timber Lakes Septic	Service (218) 927-6175		-
	(,	Ryan Anderson	
1037 1st St. NW P.IPZSHARELFORMSIPURIDING AGRA		320-364-0355	
Timber Lake Se	otic Service (218) 927-6175		

Soil Observation Log

					www.	SepticResourc	e.com vers 12.4
			Owner Info	rmation			
Property Owr	ner / project:	Ryan Ande	rson	Date	5/10)/2024	
Property Add	ress / PID:	36830 395t	h St. Aitkin MN	56431			
			Soil Survey In	nformation	refer	to attached so	oil survey
Parent matl's:		Піш	Outwash	✓ Lacustrine ☐ A	Alluvium C	rganic	☐ Bedrock
landscape pos	sition:	Summit	Shoulder	Side slope	Toe slope	River B	ottom Flats
soil survey m	ap units:	672 &B238A		slope Flat	% direction-	West	
			Coll Log #1	In Vand			
			Soil Log #1				
Depth (in)	Texture	Boring	Pit Elevation matrix color	redox color	Depth to SHWT consistence	8" grade	shape
2 op ()				100000		grant	- Shape
0 - 8	Topsoil Loam	<35	10YR3/2		Loose	Loose	Granular
8 - 16	Silt Loam	<35	2.5YR5/3	7.5YR6/4	Friable	Weak	Blocky
Comments:							

36830 395th St. Aitkin MN 56431 Soil Log #2 In Pasture to East of yard							
☑ Boring ☐ Pit Elevation 98.3' Depth to SHWT 10"							
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 10	Topsoil Loam	<35	10YR3/2		Loose	Loose	Granular
10 - 16	Silt Loam	<35	2.5YR5/3	7.5YR6/4	Friable	Weak	Blocky
36830 395	th St. Aitkin MN	I 56431	S	oil Log #3			
	□ Во	oring Pi	t 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.

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



Detailed Parcel Report

Parcel Number: 31-0-006600

General Information

Township/City: SPENCER TWP

Taxpayer Name: ANDERSON, RYAN ELGIN & NICOLE MARIE

Taxpayer Address: 38759 390TH AVE

AITKIN MN 56431

Property Address: 36830 395th St

Township: 47 Lake Number: 0

Range: 26 Lake Name:

Section: 3 Acres: 40.00
Green Acres: No School District: 1.00

Plat:

Brief Legal Description: (NW NW) LOT 5

Tax Information

Class Code 1: Ag NonHomestead Residence 2-3 Units

Class Code 2: Agricultural Non-Contiguous

Class Code 3: Ag Non-Prod Contig to a 105 Parcel

Homestead: Non Homestead

Assessment Year: 2024

Estimated Land Value: \$93,100.00
Estimated Building Value: \$73,700.00
Estimated Total Value: \$166,800.00

Prior Year Total Taxable Value: \$152,200.00

Current Year Net Tax (Specials Not Included): \$656.00

Total Special Assessments: \$0.00

**Current Year Balance Not Including Penalty: \$656.00

Delinquent Taxes: No

^{*} For more information on delinquent taxes, please call the Aitkin County Treasurer's Office at 218-927-7325.

^{**} Balance Due on a parcel does not include late payment penalties.



Minnesota Well Index

General Information

Unique Well ID:

861898

Well Name:

BOSSENMAN,

County:

Aitkin

Aquifer:

Well Elevation (msl in

feet):

Drilled Depth (ft):

MARK 112

Well Completed

112

Date Drilled:

08/26/2021

Township:

47

Range:

26 domestic Dir:

W

Section: Depth To

Subsection:

BBD

Use:

Well Status:

(ft):

Active

Bedrock:

Driller:

Hasskamp Bros. Well

Drilling

Entry Date:

Update Date:

04/29/2022

Related Resources:

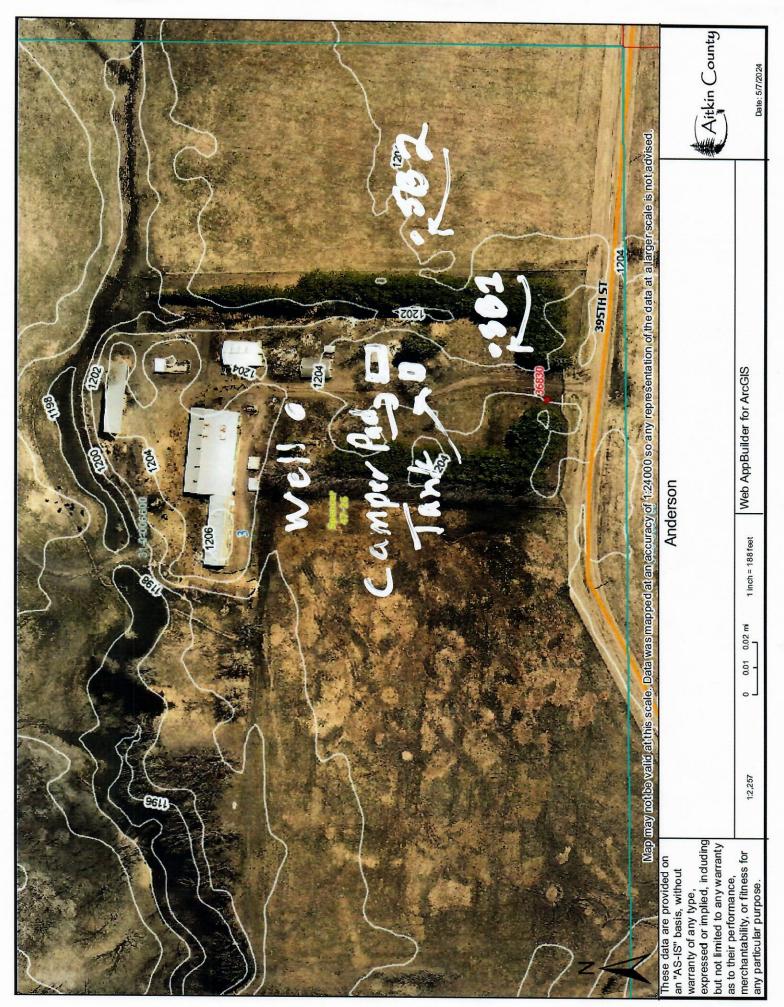
Go to MN Well Index Map

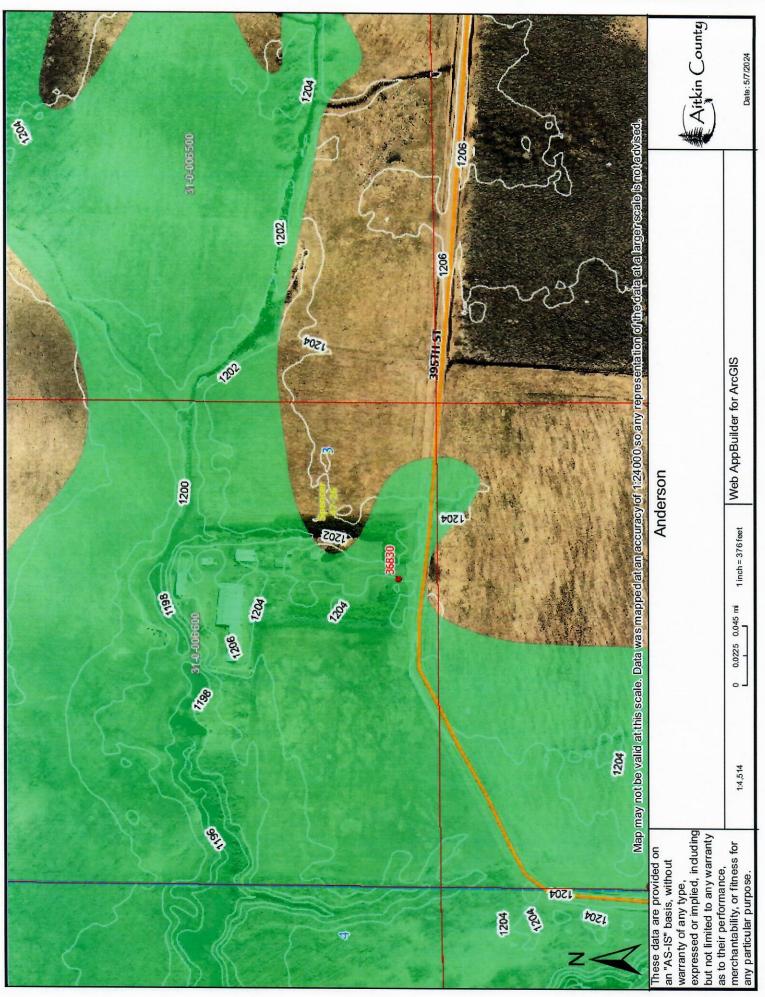
Well Log Report

Scanned Record(s)

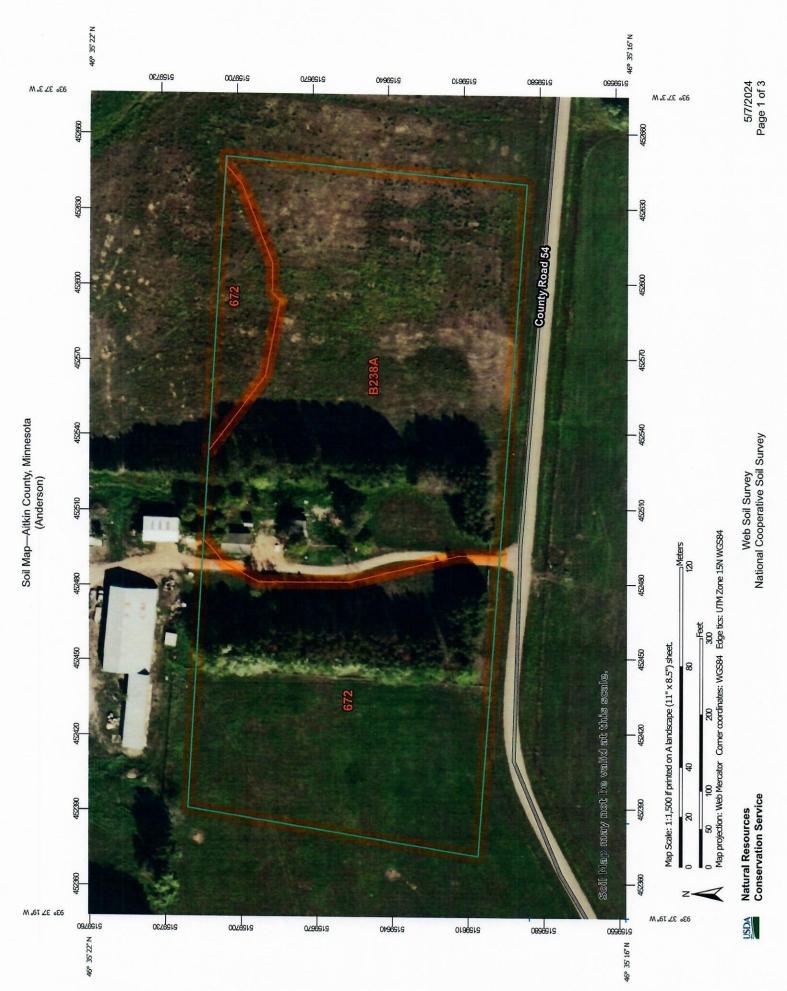
Stratigraphy Report

More Details	Stratigraphy	Address	Chemical Data	Construc	tion Pump	Test St	tatic Water (Comments	Overview Map
Description		From(ft)	To(ft)	Color	Hardness	Lith Primary	Lith Secondar	y Interpre	etation
CLAY		0	7	BROWN	MEDIUM				
CLAY		7	70	GRAY	MEDIUM				
CLAY		70	102	BROWN	MEDIUM				
CLAY/GRAVEL		102	108	BROWN	MEDIUM				
SAND		108	112	BROWN	MEDIUM				





Page 11 of 17



Aitkin County, Minnesota

B238A—Cowhorn-Onega-Sago, frequently ponded complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2z32t Elevation: 1,020 to 1,710 feet

Mean annual precipitation: 23 to 30 inches Mean annual air temperature: 36 to 41 degrees F

Frost-free period: 90 to 140 days

Farmland classification: Not prime farmland

Map Unit Composition

Cowhorn and similar soils: 55 percent Onega and similar soils: 30 percent

Sago, frequently ponded, and similar soils: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cowhorn

Setting

Landform: Dunes

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear Parent material: Eolian sands

Typical profile

A - 0 to 5 inches: very fine sandy loam
Bw - 5 to 51 inches: loamy very fine sand
Cg - 51 to 79 inches: very fine sand

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)

Depth to water table: About 12 to 24 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: A/D

Ecological site: F088XY011MN - Moist Sandy Mixed Forest Forage suitability group: Level Swale, Low AWC, Acid

(G088XN007MN)

Other vegetative classification: Level Swale, Low AWC, Acid

(G088XN007MN)
Hydric soil rating: No

Description of Onega

Setting

Landform: Interdunes

Landform position (three-dimensional): Talf

Down-slope shape: Concave, linear

Across-slope shape: Linear Parent material: Eolian sands

Typical profile

A - 0 to 5 inches: mucky very fine sandy loam Bg1 - 5 to 9 inches: very fine sandy loam Bg2 - 9 to 32 inches: loamy very fine sand Bw - 32 to 39 inches: very fine sandy loam Cg - 39 to 79 inches: loamy very fine sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)

Depth to water table: About 0 to 8 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 10 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: B/D

Ecological site: F088XY008MN - Wet Mixed Forest

Forage suitability group: Level Swale, Acid (G088XN005MN)

Other vegetative classification: Level Swale, Acid

(G088XN005MN) Hydric soil rating: Yes

Description of Sago, Frequently Ponded

Setting

Landform: Depressions
Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Herbaceous organic material over eolian sands

Typical profile

Oa - 0 to 13 inches: muck

A - 13 to 15 inches: mucky very fine sandy loam Bg - 15 to 41 inches: very fine sandy loam Cg - 41 to 79 inches: loamy very fine sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)

Depth to water table: About 0 to 6 inches

Frequency of flooding: None Frequency of ponding: Frequent

Calcium carbonate, maximum content: 10 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water supply, 0 to 60 inches: High (about 12.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: B/D

Ecological site: F088XY007MN - Wet Depressional Forest Forage suitability group: Not Suited (G088XN024MN) Other vegetative classification: Not Suited (G088XN024MN)

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 24, Sep 9, 2023

Aitkin County, Minnesota

672—Willosippi loam

Map Unit Setting

National map unit symbol: gjjb 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

Willosippi and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Willosippi

Setting

Landform: Swales on lake plains Down-slope shape: Linear Across-slope shape: Concave

Parent material: Loamy glaciolacustrine deposits

Typical profile

Ap - 0 to 7 inches: loam

Eg - 7 to 12 inches: fine sandy loam

Btg1-4,Cg1 - 12 to 42 inches: stratified loamy sand to silty clay

loam

Cg2, Cg3 - 42 to 60 inches: stratified loamy sand to silty clay loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)

Depth to water table: About 6 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Available water supply, 0 to 60 inches: High (about 10.4 inches)

Interpretive groups

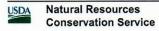
Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: B/D

Ecological site: F088XY008MN - Wet Mixed Forest

Forage suitability group: Level Swale, Acid (G088XN005MN)



Other vegetative classification: Level Swale, Acid

(G088XN005MN)
Hydric soil rating: Yes

Minor Components

Hamre

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

Sandwick

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

Gravelly soils

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

Aftad

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

Data Source Information

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 24, Sep 9, 2023