Lot's A & B Site Evaluation Notes - Aitkin county 24-051

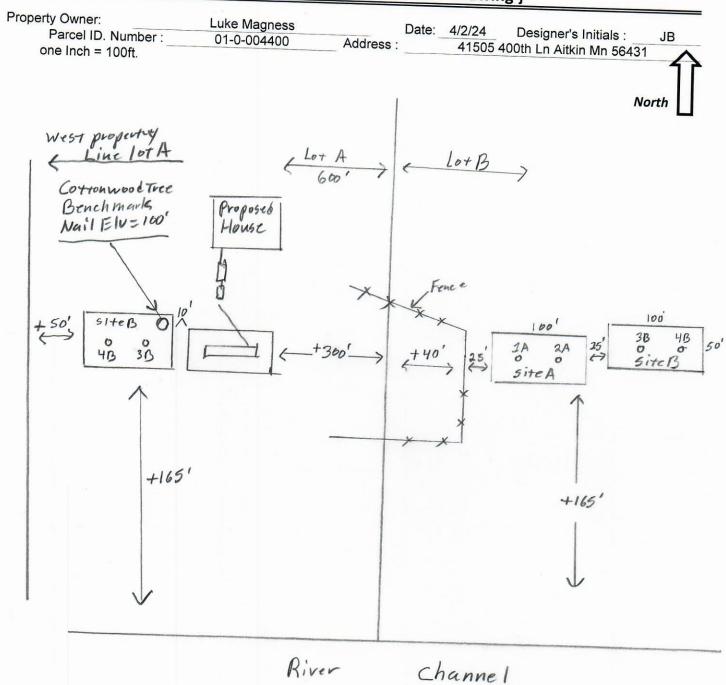
Luke Mag		Date:	4/2/24
Site Address: 41505 400	th Ln Aitkin Mn 56431	PID:	
Comments:		te is 50' x 100'	01-0-004400
 Lot A has a proposed septic Lot B has 2 soil sites (type I 	. 12 acre lot (Lot A) off of a 10 point of the sites. Type I soils. 50' x 100' mound Type I, and a 2nd soil soils). 50' x 100' each hmark on Cottonwood tree west	each. site B.	d, Nail Elv.= 100'
Designed to Aitkin Co. and I	MPCA recommendations and re	quirements.	
Pesignature	Brummer Septic LL Design Company		L-1347

Septic Site Evaluation Lots A & B

		wner Informati	www.Septi	cResource.com vers
Date 4/2/2024		Owner Information		
Parcel ID 01-0-0044	00	Sec / Twp / Rng	S-2, T-47, R-	27
<u> </u>		LUG (county, city, township	Aitkin Co.	
		Owners address (if different)		
Property Address: 41505 400	th Ln Aitkin Mn 56431			
City / State / Zip:				
2				
	Flow Informati	on and Waste Type / Streng	th	
Estimated Design flow Seption	Site Evaluation	Anticipated Waste strength	Sec.	
		Any Non Domestic W.	Hi Strength	Domestic
Comments: Owner is splitting Lot A is the House lot, ha	lot for house aprrox 12 a		Yes (class V)	☐ No
Lot B is the rest of original Each Alt Site for both lots are 50	107 acres Lot R has 2 sit	Sewage ejector/grinder pump	Yes	☐ No
and the for both lots are 50	y x 100'	Water softener	Yes	☐ No
		Garbage Disposal	Yes	☐ No
		Daycare / In home business	Yes	☐ No
	S	Site Information		
existing & proposed lot improvements located (see site material)	Yes Vo	Well casing depth Al	l wells + 100 ft fro	om area
assements on lot located see site map)	☐ Yes ✓ No	Drainfield w/in 100' of residential well	Yes	✓ No
roperty lines determined ee site map) Si	✓ Yes	Site w/in 200' of transient noncommunity water supply (7	Yes	✓ No
eq'd setbacks determined ee site map)	✓ Yes	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS)	Yes	✓ No
tilities located & identified opher state one call)	☐ Yes ✓ No	Buried water supply pipe w/in 50' of system	Yes	✓ No
ccess for system maintenance nown on site map)	✓ Yes	Site located in Shoreland (w/in 1000' of lake, 300' of river)	✓ Yes	□ No
oil treatment area protected	✓ Yes	Site map prepared with previous items included	✓ Yes	☐ No
onstruction related issues	Bench Mark Nail is t	he same benchmark used for mou	ınd design	
	Bench Mark Nail is o	on the South side of lager cottonw	ood tree west of	mound.
		septic sites only not for design		

			Soil Information		CANADANA SA	12.45
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/ft ²)			Percolation rate (if applicable)			
Depth/elev to SHWT			Flooding or run-on potential	Yes	✓ No	
Depth to system bottom maximum (or elev minimum)			(comments)			
Depth/elev to standing water (if applicable)			Flood elevation (if applicable)			
Depth/elev to bedrock if applicable)		_	Elevation of ordinary high water level (if applicable)			
Soil Survey information letermined (see attachment)	✓ Yes	☐ No	Floodplain designation and elev - 100 yr/10 yr (if applicable)			
Differences between soil survey and field evaluation (if applicable)						
hereby certify this evaluation was c	completed	in accordan	ce with MN 7080 and any local req's.			
W//mmun	-	Brur	nmer Septic LLC.		L-1347	
esigna Signature			pany		License #	

{Lot's A & B Site Evaluation Drawing }



	Lot A Site B	Nail on Cottonwo	od= Bench Mark 100'	Lot D Coil City A O D
Soil Bore 3B	97.5' / 16"	Bench Mark	100'	Lot B Soil Sites A & B
Soil Bore 4B	97.1' / 16"	Ground Elv. BM		Soil Bore 1A = 98.9' / 16"
	07.1710	Ground Elv. Bivi	98.8'	Soil Bore 2A = 99.1' / 16"
				Soil Bore 3B = 98.2' / 16"
		Approx. Channel V	Vater Elv.= 79'	Soil Bore 4B = 97.6' / 16"

Please show all that apply (Existing) Wells within 100ft. Of Drain field. Water lines within 10 ft. of Drain field. Drain field Areas:

Please Draw to Scale with North to Top or Left Side of Page:

Disturbed/Compacted Areas

Component Location

OHW ordinary high water

Lot Easements

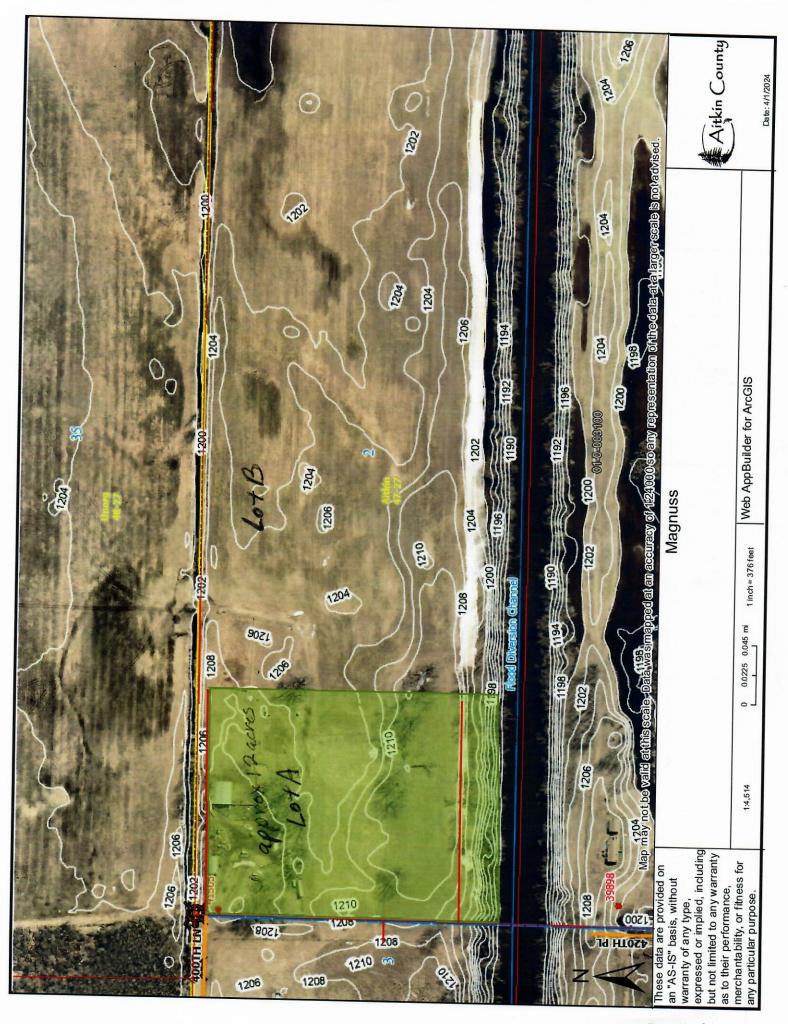
Access Route for Tank Maintenance

Property Lines

Structures

Setbacks





Soil Observation Log Lot A www.SepticResource.com vers 12.4 **Owner Information** Property Owner / project: Luke Magness Date 4/2/2024 41505 400th Ln Aitkin Mn 56431 Property Address / PID: **Soil Survey Information** refer to attached soil survey Parent matl's: Till Outwash ✓ Lacustrine ☐ Alluvium Organic Bedrock landscape position: Summit Shoulder ✓ Side slope ☐ Toe slope soil survey map units: 759 slope 3 % direction- NW ✓ Boring ☐ Pit Elevation Depth to SHWT Depth (in) Texture fragment % matrix color redox color consistence grade shape Comments: Ground Frost 0" to 3" Sunny day

41505 400	1505 400th Ln Aitkin Mn 56431 Lot A Soil Log #3B Site B						
					e B		
Depth (in)	Texture] Pit Elevation		Depth to SHW	T Below 16'	1
- spur (III)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 6	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
6 - 16	Sandy Loam	<35	10YR5/4		Loose	Loose	Granular
41.70							
41505 400t	h Ln Aitkin Mn	56431	Lot A Soi	l Log #4B Site	В		
	✓ Bor	ring Pit	Elevation		Depth to SHWT	Polovi 16"	
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 5	Topsoil Sandy Loam	<35	10YR3/2			Loose	Granular
5 - 14	Sandy Loam	<35	10YR5/4		Loose	Loose	Granular
14 - 16	Sandy Loam	<35	10YR6/4		Loose	Loose	Granular

I hereby certify this work was completed in accord	dance with MN 7080 and any local req's.	
Milmun	Brummer Septic LLC.	L-1347
Designer Signature	Company	License #

Soil Observation Log

Lot B

		Owner Information	www.SepticReso	Juree.com vers
Property Owner / project	: Luke Magness		Dota	/2/2024
Property Address / PID:		Aitkin Mn 56431	Date 4	/2/2024
		- 100m 17m 30+31		
	So	il Survey Information	refer to attached	d coil gum a
arent matl's:	_		_	
andscape position:	Summit	Shoulder Side slope	Alluvium Organic Toe slope	Bedroci
oil survey map units:	795		99 % direction-North	_
	✓ Boring ☐ Pit	Elevation		
Depth (in) Textur		trix color redox color	Depth to SHWT grade	ahana
			grade	shape
				- 1
				-

41505 40	41505 400th Ln Aitkin Mn 56431 Lot B Soil Log #1A Site A						
			_				
Depth (in)		fragment %	= ration		Depth to SHW		<u>"</u>
0 - 5	Topsoil Sandy Loam	<35	10YR3/2	redox color	Loose	grade	shape Granular
5 - 16	Sandy Loam	<35	10YR6/4		Loose	Loose	Granular
41505 400	th Ln Aitkin Mn	56431	Lot B Soi	l Log #2A Site	A		
	✓ Bo	ring Pit					
Depth (in)	Texture	fragment %	matrix color	redox color	Depth to SHWT consistence		· ahaua
0 - 4	Topsoil Sandy Loam	<35	10YR3/2			grade Loose	shape Granular
4 - 16	Sandy Loam	<35	10YR6/4		Loose	Loose	Granular

Thereby certify this work was completed in accordance	ce with MN 7080 and any local req's.	
Still Comme	Brummer Septic LLC.	L-1347
Designer Signature	Company	License #

41505 40	0th Ln Aitkin M	n 56431	Lot R S	oil Log #3B Sit	a D		
			Pit Elevatio	n OR 2'			
Depth (in)		fragment %			Depth to SHW		_
0 - 5	Topsoil Sandy Loam	<35	10YR3/2	redox color	Loose	grade	shape Granular
5 - 16	Sandy Loam	<35	10YR6/4		Loose	Loose	Granular
41505 400	th Ln Aitkin Mn		Lot B So	il Log #4B Site	В		
		oring Pit			Depth to SHWT	Below 16"	
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 5	Topsoil Sandy Loam	<35	10YR3/2		Loose	Loose	Granular
5 - 16	Sandy Loam	<35	10YR6/4		Loose	Loose	Granular

I nereby certify this work was completed in accordan	ce with MN 7080 and any local req's.	
M//mww	Brummer Septic LLC.	L-1347
Designer Signature	Company	License #



Detailed Parcel Report

Parcel Number: 01-0-004400

General Information

Township/City:

AITKIN TWP

Taxpayer Name:

MAGNESS, LUKE B & STACIE M

Taxpayer Address:

41505 400TH LN

AITKIN MN 56431

Property Address:

41505 400TH LN

Township:

47

Lake Number:

1060400

Range:

27

Lake Name:

Mississippi River

Section:

2

Acres:

107.27

Green Acres:

No

School District:

1.00

Plat:

Brief Legal Description:

GOVT LOTS 1-4 N OF DIVERSION CHANNEL

Tax Information

Class Code 1:

Agricultural

Class Code 2:

Ag Non-Productive Contiguous

Class Code 3:

Unclassified

Homestead:

Owner Homestead

Assessment Year:

2024

Estimated Land Value:

\$164,000.00

Estimated Building Value:

\$9,800.00

Estimated Total Value:

\$173,800.00

Prior Year Total Taxable Value:

\$136,000.00

Current Year Net Tax (Specials Not Included):

\$0.00

Total Special Assessments:

\$0.00

**Current Year Balance Not Including Penalty:

\$0.00

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.



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Aitkin County, Minnesota

759—Waukenabo fine sandy loam

Map Unit Setting

National map unit symbol: gjjn 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: Prime farmland if drained

Map Unit Composition

Waukenabo and similar soils: 85 percent

Minor components: 15 percent

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

Description of Waukenabo

Setting

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

Parent material: Sandy and silty glaciolacustrine deposits

Typical profile

A - 0 to 6 inches: fine sandy loam
Eg1,Eg2 - 6 to 15 inches: loamy sand
Btg1,Btg2 - 15 to 28 inches: sandy loam
Bkg - 28 to 30 inches: very fine sandy loam
Cg1,Cg2 - 30 to 80 inches: stratified fine sand to silt 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 (0.60 to 2.00 in/hr)

Depth to water table: About 6 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Available water supply, 0 to 60 inches: Moderate (about 8.5

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

Sago

Percent of map unit: 8 percent Landform: Depressions Hydric soil rating: Yes

Cowhorn

Percent of map unit: 7 percent Hydric soil rating: No

Data Source Information

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

Aitkin County, Minnesota

795—Redby loamy fine sand, stratified substratum

Map Unit Setting

National map unit symbol: gjjp 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

Redby, stratified substratum, and similar soils: 90 percent

Minor components: 10 percent

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

Description of Redby, Stratified Substratum

Setting

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

Parent material: Sandy glaciolacustrine deposits

Typical profile

Ap - 0 to 7 inches: loamy fine sand

E - 7 to 25 inches: sand

BE,Bt,BC - 25 to 42 inches: fine sand

C - 42 to 60 inches: stratified fine sand to fine sandy loam

Properties and qualities

Slope: 0 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): High to

very high (6.00 to 20.00 in/hr) Depth to water table: About 18 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Available water supply, 0 to 60 inches: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: A/D

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

(G090AN007MN)

Other vegetative classification: Level Swale, Low AWC, Acid (G090AN007MN)

Hydric soil rating: No

Minor Components

Cormant

Percent of map unit: 5 percent Landform: Flats Hydric soil rating: Yes

Markey

Percent of map unit: 5 percent Landform: Bogs Hydric soil rating: Yes

Data Source Information

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