

Tract A
~~Lot 3~~ Site Evaluation
Preliminary & Field Evaluation Form

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Owner Information			
Date	<u>6/24/2020</u>	Sec / Twp / Rng	<u>S-25,T-47, R-27</u>
Parcel ID	<u>01-0-056000</u>	LUG (county, city, township)	<u>Aitkin Co.</u>
Property Owner:	<u>William Monse</u>	Owners address (if different)	
Property Address:	<u>544 th Ave SE Aitkin MN 56431</u>		<u>29249 CR 11</u>
City / State / Zip:			<u>Aitkin MN 56431</u>

Flow Information and Waste Type / Strength			
Estimated Design flow	<u> </u>	Anticipated Waste strength	<input type="checkbox"/> Hi Strength <input type="checkbox"/> Domestic
Comments: Site Evaluations for lot 3 Aitkin Co Requires 2 sites Approx. 50' x 100' On Contour of slope		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 checked="" type="checkbox"/> No	Well casing depth	None Present	
Easements on lot located (see site map)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Drainfield w/in 100' of residential well	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Property lines determined (see site map) Surveyed By Others	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Site w/in 200' of transient noncommunity water supply (TNCWS)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Req'd setbacks determined (see site map)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Site w/in an inner wellhead mgmt zone (CWS/NTNCWS)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Utilities located & identified (gopher state one call)	<input type="checkbox"/> Yes	<input checked="" 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 checked="" type="checkbox"/> No
Soil treatment area protected	<input checked="" 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	<u>Site Evaluations for each lot. Both Sites are for future septic sites</u>				

Soil Information

			Evidence of site:		
			Cut	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
			Filled	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
			Compacted	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
			Disturbed	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Original soils	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			
Soil logs completed and attached	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Perk test completed and attached (if applicable)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Soil loading rate (gpd/ft ²)	_____		Percolation rate (if applicable)	_____	
Depth/elev to SHWT	<u>Varies</u>		Flooding or run-on potential (comments)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Depth to system bottom maximum (or elev minimum)	_____				
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 determined (see attachment)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> 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 completed in accordance with MN 7080 and any local req's.

 Designer Signature

 Brummer Septic LLC.
 Company

 L-1347
 License #

Soil Observation Log

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Owner Information	
Property Owner / project:	William Monse Date <u>6/24/2020</u>
Property Address / PID:	544 th Ave SE Aitkin MN 56431

Soil Survey Information	
<input type="checkbox"/> refer to attached soil survey	
Parent mat'l's:	<input checked="" 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 checked="" type="checkbox"/> Side slope <input type="checkbox"/> Toe slope
soil survey map units:	<u>504B & 504C</u> slope _____ % direction- _____

Soil Pit #301A							
		<input type="checkbox"/> Boring	<input checked="" type="checkbox"/> Pit	Elevation _____	Depth to SHWT <u>14"</u>		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 7	Topsoil Loam	<35	10YR3/2		Loose	Loose	Blocky
7 - 14	Loam	<35	10YR5/4	A little silt holding it together	Loose	Weak	Granular
14 - 18	Loam	<35	10YR5/4	7.5YR5/6 & 10YR6/2	Friable	Weak	Granular
		<35					
Comments:							

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Soil Pit #302A

		<input type="checkbox"/> Boring	<input checked="" type="checkbox"/> Pit	Elevation _____	Depth to SHWT <u>13"</u>		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 7	Topsoil Loam	<35	10YR3/2		Loose	Loose	Blocky
7 - 13	Silt Loam	<35	10YR5/3 (E Horizon)		Friable	Weak	Blocky
13 - 17	Silt Loam	<35	10YR5/3 & 10YR4/4 (E & B Horizon Blending)	7.5YR5/4	Friable	Weak	Blocky
17 - 20	Clay Loam	<35	10YR4/4 (B Horizon)		Friable	Moderate	Blocky

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Soil Pit #303B

		<input type="checkbox"/> Boring	<input checked="" type="checkbox"/> Pit	Elevation _____	Depth to SHWT <u>18"</u>		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 8	Topsoil Loam	<35	10YR3/2		Loose	Loose	Blocky
8 - 18	Silt Loam	<35	10YR5/4 & Some 10YR4/4 (E & B Horizon Blending)		Friable	Weak	Blocky
18 - 22	Silt Loam	<35	10YR5/4 & 10YR4/4 (E & B Horizon Blending)	7.5YR5/4	Friable	Weak	Blocky
		<35					
		<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

Brummer Septic LLC.
 Company

L-1347
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Soil Pit #304B

		<input type="checkbox"/> Boring	<input checked="" type="checkbox"/> Pit	Elevation _____	Depth to SHWT <u>13"</u>		
Depth (in)	Texture	fragment %	matrix color	redox color	consistence	grade	shape
0 - 8	Topsoil Loam	<35	10YR3/2		Loose	Loose	Blocky
8 - 13	Silt Loam	<35	10YR5/3 & 10YR4/4	E with some B Mixing	Friable	Weak	Blocky
13 - 17	Silt Loam	<35	10YR5/3 & 10YR4/4	7.5YR5/6	Friable	Weak	Blocky
17 - 20	Clay Loam	<35	10YR4/4		Friable	Moderate	Blocky
		<35 35 - 50 >50			loose friable firm rigid	loose weak moderate strong	single grain granular blocky prismatic platy massive

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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

Brummer Septic LLC.

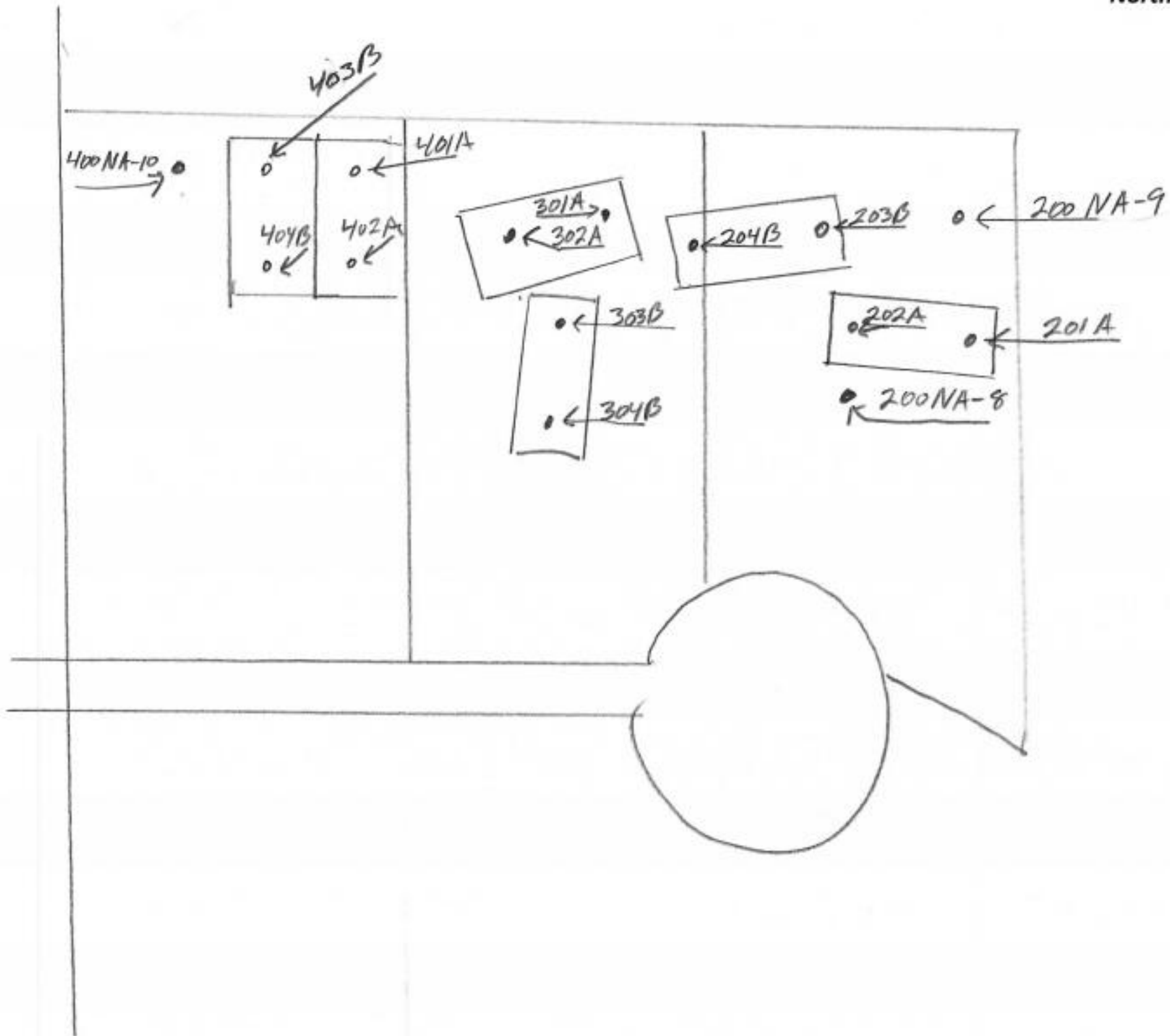
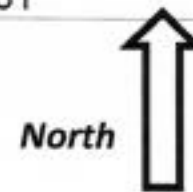
 Company

L-1347

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{ Design Drawing }

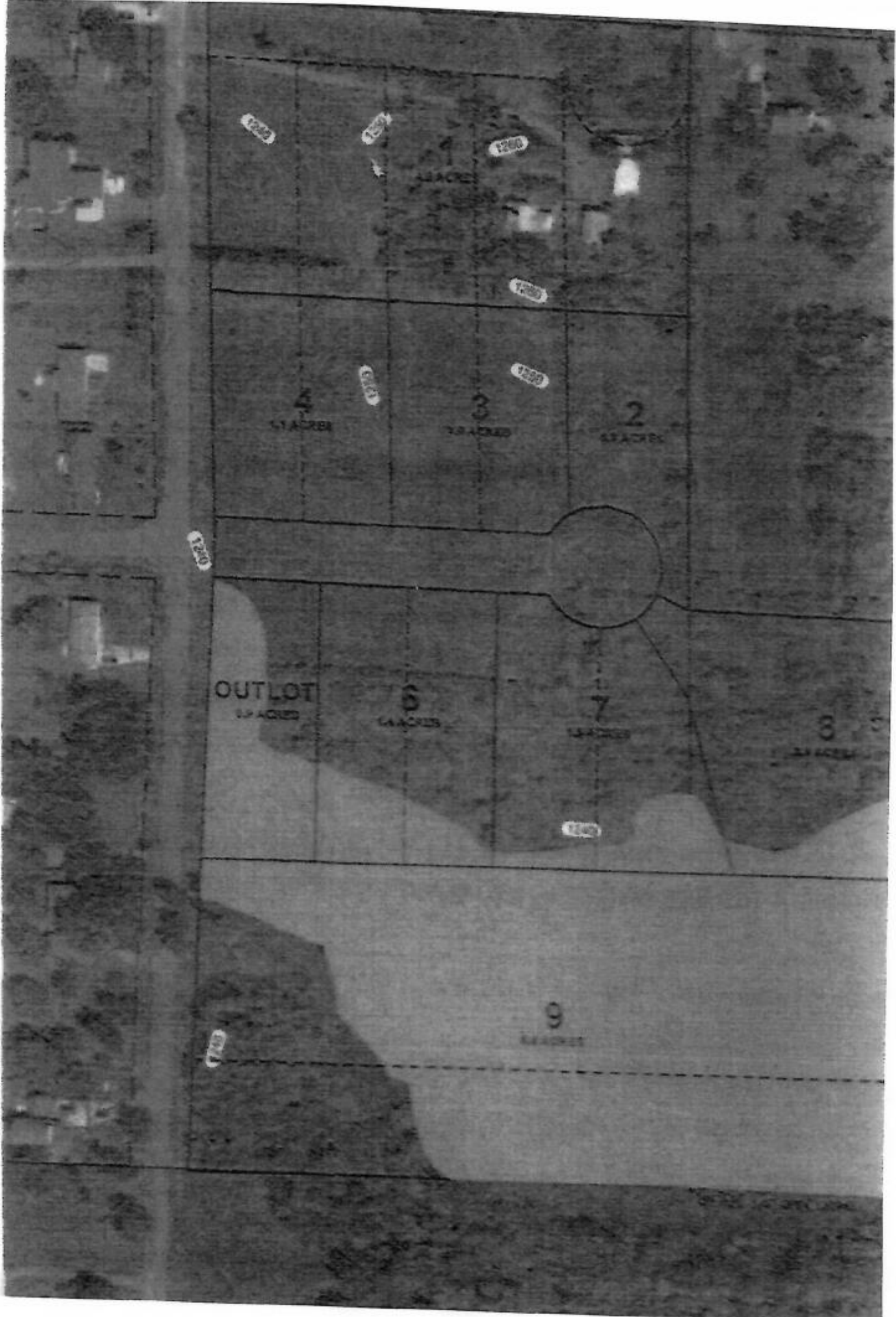
Property Owner: William Monse Date: 6/24/20 Designer's Initials: JB
 Parcel ID. Number: 01-0-056000 Address: 544 th Ave SE Aitkin MN 56431
 one Inch = 40ft.



401A	17"
402A	17"
403B	14"
404B	14"

301A	14"
302A	13"
303B	18"
304B	13"

201A	13"
202A	14"
203B	13"
204B	16"
200 NA-8	8"
200 NA-9	10"



General Information

Township/City: AITKIN TWP
Taxpayer Name: MONSE, WILLIAM J & CYNTHIA
Taxpayer Address: 29249 CR 11
 AITKIN MN 56431
Property Address: 544 6TH AVE SE
Township: 47 **Lake Number:** 0
Range: 27 **Lake Name:**
Section: 25 **Acres:** 39.94
Green Acres: No **School District:** 1.00
Plat:
Brief Legal Description: PART OF SE SW E OF ROAD & S1/2 SW SE

Tax Information

Class Code 1: Non-Homestead Qualifying Single Res Unit
Class Code 2: Rural Vacant Land
Class Code 3: Unclassified
Homestead: Non Homestead
Assessment Year: 2020

Estimated Land Value:	\$69,200.00
Estimated Building Value:	\$61,300.00
Estimated Total Value:	<u>\$130,500.00</u>
Prior Year Total Taxable Value:	\$136,700.00
Current Year Net Tax (Specials Not Included):	\$1,020.00
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.**

Soil Map—Aitkin County, Minnesota
(Monse)



Soil map may not be valid at this scale.

Map Scale: 1:1,500 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

6/22/2020
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Aitkin County, Minnesota

504B—Duluth fine sandy loam, 1 to 6 percent slopes

Map Unit Setting

National map unit symbol: gjh7
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: All areas are prime farmland

Map Unit Composition

Duluth and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Duluth

Setting

Landform: Moraines
Landform position (two-dimensional): Backslope, summit
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy till

Typical profile

A - 0 to 3 inches: fine sandy loam
E,Bw,2BE,2Bt - 3 to 41 inches: clay loam
2C - 41 to 60 inches: loam

Properties and qualities

Slope: 1 to 6 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat):
Moderately low to moderately high (0.06 to 0.60 in/hr)
Depth to water table: About 13 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Available water storage in profile: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C/D
Forage suitability group: Sloping Upland, Acid (G090AN006MN)
Hydric soil rating: No

Minor Components

Mahtowa and similar soils

Percent of map unit: 3 percent

Landform: Depressions

Hydric soil rating: Yes

Blackhoof and similar soils

Percent of map unit: 3 percent

Landform: Depressions

Hydric soil rating: Yes

Rifle and similar soils

Percent of map unit: 3 percent

Landform: Bogs

Hydric soil rating: Yes

Cromwell and similar soils

Percent of map unit: 2 percent

Hydric soil rating: No

Dusler and similar soils

Percent of map unit: 2 percent

Hydric soil rating: No

Cutaway and similar soils

Percent of map unit: 2 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Aitkin County, Minnesota

Survey Area Data: Version 20, Sep 16, 2019

Aitkin County, Minnesota

504C—Duluth fine sandy loam, 6 to 12 percent slopes

Map Unit Setting

National map unit symbol: gjh8
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: Farmland of statewide importance

Map Unit Composition

Duluth and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Duluth

Setting

Landform: Moraines
Landform position (two-dimensional): Backslope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy till

Typical profile

A - 0 to 3 inches: fine sandy loam
E,Bw,2BE,2Bt - 3 to 49 inches: clay loam
2C - 49 to 60 inches: loam

Properties and qualities

Slope: 6 to 12 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat):
Moderately low to moderately high (0.06 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 5 percent
Available water storage in profile: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Forage suitability group: Sloping Upland, Acid (G090AN006MN)
Hydric soil rating: No

Minor Components

Blackhoof and similar soils

Percent of map unit: 3 percent

Landform: Depressions

Hydric soil rating: Yes

Mahtowa and similar soils

Percent of map unit: 3 percent

Landform: Depressions

Hydric soil rating: Yes

Rifle and similar soils

Percent of map unit: 3 percent

Landform: Bogs

Hydric soil rating: Yes

Cutaway and similar soils

Percent of map unit: 2 percent

Hydric soil rating: No

Cromwell and similar soils

Percent of map unit: 2 percent

Hydric soil rating: No

Dusler and similar soils

Percent of map unit: 2 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Aitkin County, Minnesota

Survey Area Data: Version 20, Sep 16, 2019