

September 5, 2020

To: Potential buyer

Subject: Site Evaluation for 317-230-290 Trygg Road

Completed site evaluation on September 2, 2020 West Eagles Nest Shores plat Lot 29

Here is the summary report for the soils and assessment for two possible septic sites for this existing lot. There is area and soils to fit two septic sites on this lot – primary & alternate for a 300 Gallon per day septic.

The septic areas need to have adequate area that is relatively level (less than one foot drop) as it runs parallel to the slope of the land. The area also needs to have relatively consistent soil depth, at least 12 inches of good soil to support a septic system. Size of the system will vary on type of soil & depth to restricting layer which is ledge rock, clay, saturated soil or mottling.

Attached are the soil analysis worksheets for the two sites. From the soils I can estimate an area that would be needed for a septic. These estimates are for a standard mound system which would require the largest foot print. There are options for performance systems that would require a smaller footprint but require more maintenance.

Possible site 1: Boring holes 1 & 2

Approximate area for a 300 gallon per day septic for 2 br or class II 3 br overall dimension 40 ft x 98 ft
Soils sandy loam slope 3


Boring hole 3 & 4 alternate site -

Approximate area for a 300 gallon septic mound overall 40 ft x 98 ft
Soils sandy loam slope 2

There is area down the hill for a septic system. This location is harder for an installer to access for installation. The area on the summit of the hill is quite rocky so a mound will be needed.

When it comes time for a septic design further analysis would need to be completed to determine actual size & location based on location of cabin and number of bedrooms etc. Please call if you have any further questions.

Sincerely:


Sheri Sawatzky

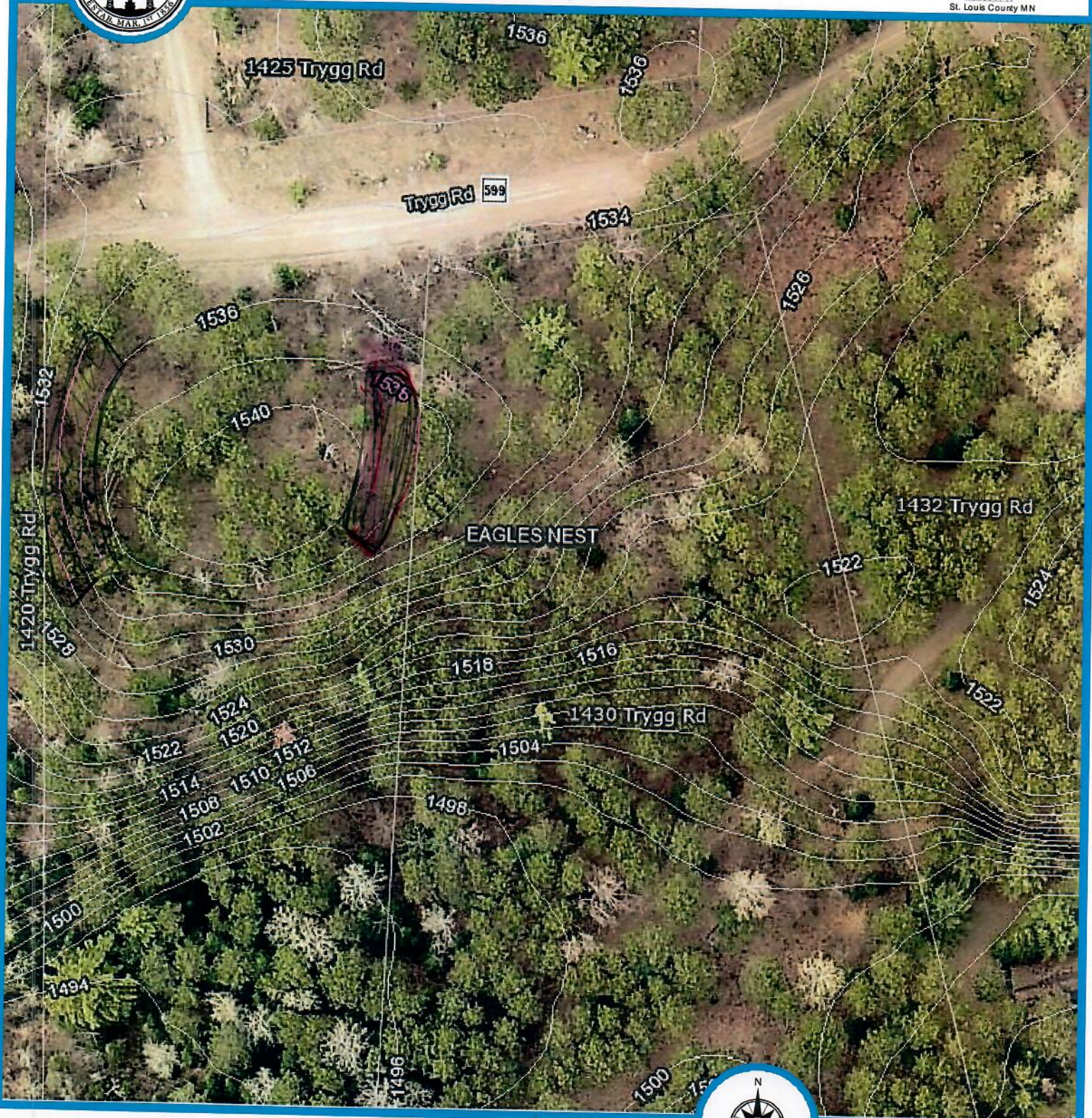
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County Land Explorer

St. Louis County, Minnesota



Title...

default author

Map created using County Land Explorer
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County Land Explorer

St. Louis County

www.stlouiscountymn.gov/explorer

Minnesota

Disclaimer

This is a compilation of records as they appear in the Saint Louis County Offices affecting the area shown. This drawing is to be used only for reference purposes and the County is not responsible for any inaccuracies herein

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Soil Observation Log

Project ID: 317-230-290 v 04.17.2018

| | | | | | | | | | | | |
|--|------------|--------------|-----------------|----------------------------------|--|--|--|------------------------------------|----------------------------------|---|--------------------|
| Client: | | Vollom | | Location / Address: | | | | Trygg Road | | | |
| Soil parent material(s): (Check all that apply) | | | | <input type="checkbox"/> Outwash | <input type="checkbox"/> Lacustrine | <input type="checkbox"/> Loess | <input checked="" type="checkbox"/> Till | <input type="checkbox"/> Alluvium | <input type="checkbox"/> Bedrock | <input type="checkbox"/> Organic Matter | |
| Landscape Position: (check one) | | | | <input type="checkbox"/> Summit | <input checked="" type="checkbox"/> Shoulder | <input type="checkbox"/> Back/Side Slope | <input type="checkbox"/> Foot Slope | <input type="checkbox"/> Toe Slope | Slope shape | | |
| Vegetation: | | norway pine | | Soil survey map units: F5B | | Slope %: | | 3.0 | | Elevation: 1538 | |
| Weather Conditions/Time of Day: | | | | 5:10 sunny | | Date | | 09/02/20 | | | |
| Observation #/Location: | | | | Sb 1 & Sb 2 | | Observation Type: | | Soil Pit | | | |
| Depth (in) | Texture | Rock Frag. % | Matrix Color(s) | Mottle Color(s) | Redox Kind(s) | Indicator(s) | Shape | Grade | Consistence | | |
| 0-4 | sandy loam | <35% | 7.5YR 3/2 | | | | Granular | Moderate | Friable | | |
| 4-14 | sandy loam | <35% | 7.5YR 3/4 | | | | Granular | Moderate | Friable | | |
| 14-19 | sandy loam | <35% | 7.5YR 4/4 | | | | Granular | Moderate | Friable | | |
| 0-3 | sandy loam | <35% | 7.5YR 3/2 | | | | Granular | Moderate | Friable | | |
| 3-14 | sandy loam | <35% | 7.5YR 3/4 | | | | Granular | Moderate | Friable | | |
| 14-17 | sandy loam | <35% | 7.5YR 4/4 | | | | Granular | Weak | Friable | | |
| Comments | | | | | | | | | | | |
| I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws. | | | | | | | | | | | |
| Sheri Sawatzky (Designer/Inspector) | | | | | | | | | | 1659 (License #) | 9/2/2020 (Date) |

Additional Soil Observation Logs

317-230-
Project ID: 290



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|---|------------|--------------|-----------------|------------------------|---------------|--------------|--------------|-----------------|-------------|
| Client | | Vollom | | Location / Address: | | | | Trygg Road | |
| Soil parent material(s): (Check all that apply) | | | | | | | | | |
| <input type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input type="checkbox"/> Loess <input checked="" type="checkbox"/> Till <input type="checkbox"/> Alluvium <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic Matter | | | | | | | | | |
| Landscape Position: (check one) | | | | | | | | | |
| <input checked="" type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Back/Side Slope <input type="checkbox"/> Foot Slope <input type="checkbox"/> Toe Slope Slope shape: Linear, Linear | | | | | | | | | |
| Vegetation: | | norway pine | | Soil survey map units: | | F | | Elevation: 1540 | |
| Weather Conditions/Time of Day: | | | | 5:35 sunny | | Date: | | 09/02/20 | |
| Observation #/Location: | | Sb 3 & Sb 4 | | Observation Type: | | Soil Pit | | | |
| Depth (in) | Texture | Rock Frag. % | Matrix Color(s) | Mottle Color(s) | Redox Kind(s) | Indicator(s) | Shape | Grade | Consistence |
| 0-4 | sandy loam | <35% | 7.5YR 3/3 | | | | Granular | Moderate | Friable |
| 4-12 | sandy loam | <35% | 7.5YR 4/3 | | | | Granular | Moderate | Friable |
| 12-16 | sandy loam | <35% | 7.5YR 4/4 | | | | Granular | Moderate | Friable |
| 0-2 | sandy loam | | 7.5YR 3/2 | | | | Granular | Moderate | Friable |
| 2-11 | sandy loam | | 7.5YR 4/3 | | | | Granular | Moderate | Friable |
| 11-14 | sandy loam | | 7.5YR 4/4 | | | | Single grain | Moderate | Friable |
| Comments | | | | | | | | | |