Preliminary & Field Evaluation Form

www.SepticResource.com vers 12.4

| Owner Information | | | | |
|----------------------------|--|---|--|--|
| 2021 | Sec / Twp / Rng | S-21, T-48, R-25 | | |
| 088000 | LUG (county, city, township) | Aitkin Co. | | |
| ne Gibbs 763-242-4219 | Owners address (if different) | | | |
| 0 310th PI Aitkin MN 56431 | 749 Holland | Lane NE | | |
| jj.gibbs@comcast.net) | Spring Lake | Park MN 55432 | | |
| | 088000 e Gibbs 763-242-4219 310th PI Aitkin MN 56431 | 088000 LUG (county, city, township) e Gibbs 763-242-4219 0310th PI Aitkin MN 56431 749 Holland ii gibbs@comcast net) 749 Holland | | |

| Flow Information and Waste Type / Strength | | | | |
|--|-----------------------------|---------------|------------|--|
| Estimated Design flow <u>300</u> | Anticipated Waste strength | Hi Strength | ✓ Domestic | |
| Comments: | Any Non-Domestic Waste | Yes (class V) | ✓ No | |
| Mound Pinched between drive way and South Property Line Upslope and Downslope Berms Are 4:1 | Sewage ejector/grinder pump | Yes | ✓ No | |
| East End Berm is at $3.5:1 = 14$ ft. West End Berm is at $3:1 = 12$ Ft. | Water softener | Yes | ✓ No | |
| | Garbage Disposal | Yes | ✓ No | |
| | Daycare / In home business | Yes | ✓ No | |

| | | Site | e Information | | |
|--|---------------|-------|--|-------------|----------|
| Existing & proposed lot improvements located (see site ma | p) | ✓ No | Well casing depth | Proposed de | eep well |
| Easements on lot located (see site map) | Yes | ✓ No | Drainfield w/in 100' of residential well | Yes | ✓ No |
| Property lines determined (see site map) Marked by O | ✓ Yes wner | 🗌 No | Site w/in 200' of transient noncommunity water supply (7 | Yes Yes | ✓ No |
| Req'd setbacks determined (see site map) | ✓ Yes | 🗌 No | Site w/in an inner wellhead mgmt zone (CWS/NTNCWS) | Yes | ✓ No |
| Utilities located & identified (gopher state one call) | Yes | ✓ No | Buried water supply pipe w/in 50' of system | Yes | ✓ No |
| Access for system maintenance (shown on site map) | ✓ Yes | 🗌 No | Site located in Shoreland (w/in 1000' of lake, 300' of river) | ✓ Yes | 🗌 No |
| Soil treatment area protected | ✓ Yes | No No | Site map prepared with previous items included | ✓ Yes | 🗌 No |
| Construction related issues | | | | | |

| | | Soil I | nformation | | |
|---|------------|--------|---|----------------------------------|--|
| 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) | 0.60 | | Percolation rate (if applicable) | | _ |
| Depth/elev to SHWT | 20" | | Flooding or run-on potential | Yes | 🗌 No |
| Depth to system bottom maximum (or elev minimum) | (+ 18 ") | | (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 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 completed in accordance with MN 7080 and any local req's.

Designer signature

Brummer Septic LLC.

Company

L-1347

License #

Soil Observation Log

| | Owner Information | _ | uckesource.com vers |
|---------------------------|--------------------------------|----------|---------------------|
| Property Owner / project: | Joanne Gibbs | Date | 4/16/2021 |
| Property Address / PID: | 42450 310th Pl Aitkin MN 56431 | | |
| Property Address / PID: | 42450 310th PI Aitkin MN 56431 | | |

| | | Soil Survey | Information | [| refer to attache | d soil survey |
|------------------------|--------|-------------|--------------|---------|-------------------|---------------|
| Parent matl's: | | Outwash | Lacustrine A | lluvium | Organic | Bedrock |
| landscape position: | Summit | Shoulder | ✓ Side slope | 🗌 Тое | slope | |
| soil survey map units: | 928 | 3C & 928D | slope5 | _% dire | ection- <u>SE</u> | |

| | | | Soil Lo | g #1 | | | |
|------------|------------------|--------|---|-----------------------------|------------------------------|--------------|----------|
| Depth (in) | [√] Texture | Boring | Pit Elevation matrix color | 98.5' redox color | Depth to SHW1 consistence | 20" grade | |
| 0 - 7 | Topsoil Loam | <35 | 10YR3/2 | | Loose | Loose | Granular |
| 7 - 20 | Loam 1 | <35 | 10YR5/3 With some blending of 10YR4/4 | | Friable | Loose | Granular |
| 20 - 26 | Clay Loam | <35 | 10YR4/4 | 7.5YR5/6 Very small dots | Friable | Weak | Blocky |
| | | | | | Loose | Loose | Granular |
| | | | | · | Loose | Loose | Granular |

Comments:

| 42450 310 | 2450 310th Pl Aitkin MN 56431 Soil Log #2 | | | | | | |
|------------|---|-----------------------|---|-----------------------------|-----------------------------------|-------------------------------------|---|
| | | Boring |] Pit Elevation | | Depth to SHWT | 22" | |
| Depth (in) | Texture | fragment % | matrix color | redox color | consistence | grade | - shape |
| 0 - 7 | Topsoil Loam | <35 | 10YR3/2 | | Loose | Loose | Granular |
| 7 - 22 | Loam | <35 | 10YR5/3 With some blending of 10YR4/4 | | Friable | Loose | Granular |
| 22 - 26 | Clay Loam | <35 | 10YR4/4 | 7.5YR5/6 Very small dots | Friable | Weak | Blocky |
| | | | | | Loose | Loose | Granular |
| | | | | | Loose | Loose | Granular |
| 42450 310 | th Pl Aitkin MN | 56431 | S | oil Log #3 | | | |
| | ✓ Bo | oring 🗌 Pi | t Elevation | 97.6' D | Pepth to SHWT | 23" | |
| Depth (in) | Texture | fragment % | matrix color | redox color | consistence | grade | shape |
| 0 - 7 | Topsoil Loam | <35 | 10YR3/2 | | Loose | Loose | Granular |
| 7 - 23 | Loam | <35 | 10YR5/3 With some blending of 10YR4/4 | | Friable | Loose | Granular |
| 23 - 28 | Clay Loam | <35 | 10YR4/4 | 7.5YR5/6 Very small dots | Friable | Weak | Blocky |
| | | <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.

Desig**ref** signature

Brummer Septic LLC.

Company

L-1347

License # Page 4 of 22

2011 purple code Mound Design - Aitkin county

| www.SepticResource.com | (vers | 15.2) |) |
|------------------------|-------|-------|---|
|------------------------|-------|-------|---|

| | Property Owner: | Joanne Gibbs | Date: 4/16/2021 |
|------------|---------------------------------|--|--|
| | Site Address: | 42450 310th Pl Aitkin MN 56431 | PID: 08-1-088000 |
| | Comments: | | |
| instruc | tions: = ent | er data = adjust if desired | = computer calculated - DO NOT CHANGE! |
| 1) | 2 bedroom | Type I Residential | System |
| 2) | 300 GPD design fl | low | |
| 3) | No Garbage disp | osal or pumped to septic Install Jacobo | eson 1650 2/Compartment tank |
| 4) | 1000 Gal Septic ta | | eptic tank (design size / LUG req'd) options: Effluent filter & alarm req'd |
| 5) | 1.2 GPD/ft ² mou | nd sand loading rate contour loading | rate of 12 req's a min 25 ft. long rockbed |
| 6) | 10.0 ft rockbed w | ridth 25.0 ft rockbed length | |
| 7) | 3.0 ft lateral spa | | (maximum of 3 for both) fold connection |
| 8) | 3 laterals | 23.0 feet long 8.0 perfs / latera (1/2 a perf means th | al 24 perfs total e first perf starts at the middle feed manifold) |
| 9) | 1/4" inch perfs at | 1 feet residual head gives 0.74 | gpm flow rate per perforation |
| | for this perf size & sp | pacing, & pipe size on line 12, max perfs/late | ral = 16 , line #8 must be less> OK |
| 10) | 7.0 doses per day | y (4 minimum) | |
| 11) | 43 gallons per d | ose (treatment volume) | |
| | 3 | | 1.50 5x |
| 12) | 1.50 inch diamete | r laterals must be used to meet "4x pipe volu | me" requirement |
| 13) | 75 feet of | 2.0 inch supply line leads to 13 | 2.00 3x gallons of drainback volume |
| 14) | 56 gallons TOTA | L pump out volume (treatment + drainback) | (Tip: "top feed" manifold to control the drainback) |
| | | | |
| 15) 16) | 15 feet vertical 18 GPM @ | lift from pump to mound laterals, leads to a: 21 feet of head, Pump requirement | (noto: >50gpm may require an extra 2.6' of head) |
| 10) | | | (note: >50gpm may require an extra 3-6' of head) |
| 17) | 500 gal Dose tank leads to a | ((code minimum) 533 gal Dose tank | (design size / LUG req'd) at 12.69 gpi |
| 18) | | Demand float, or timed dosing of 3.1 | min ON (confirm pump rate with drawdown |
| 10) | | verage flow, =70% of Peak design flow) 5.1 pottom of tank to "Pump OFF" float | hrs OFF test and adjust as necessary) |
| 19) 20) | | pottom of tank to "Pump ON" float, or 12 | inches to "Timer ON" float if time dosed |
| 20) | | pottom of tank to "Hi Level" float, or 29 | inches to "Hi Level" float if time dosed |
| 22) | 292 gallons reser | ve capacity (after High Level Alarm is activa | ted) |

| 23) 0.60 gpd/ft ² Absorption area S | | which gives a mound ratio o | |
|---|---|---|---|
| | the soil boring log) % range) 5 (% do | desired mound rati wnslope site slope, if differ | |
| Treatment zone conta | Redox or other limiting conditi nsinches of 0% soil cred and Lift MoundCRITI | | % soil credit. Giving a: |
| 27) 20.0 ft. base absorption width 33.3 greater of: absorption widt 28) 0.0 ft. up 10.0 ft. Do | slope and sideslope | sand upslope 8.3 | |
| Individual slope ratios give BERM wi29)4:130)3:1sideslope12ft. sideslope12 | dths (topsoil beyond rockbed) of slope berm eslope berms wnslope berm ft. wide by 25.0 ft. lo | nd down slope 15.0 of: m 3:1= 12 ft. East End Bern ong Rock bed ong Mound footprint | m 3.5:1 = 14 ft. |
| | 4" inspection pipe 18" cover on the sand lift Absorption Width | Downslope berm | 20 ver on sides y cap & 6" topsoil) |
| Note: For 0 to 1% slopes, <i>Absorption</i> For slopes >1%, <i>Absorption</i> (| on Width is measured from Width is measured downhi | 1 n the <i>Bed</i> equally in b ill from the upslope ec | oth directions. Ige of the <i>Bed.</i> |
| 33) Rock Bed: 10.0 ft. by 25.0 ft. by 9 | inches under pipe, plus 20% | gives 12 yd³ or *1.4= | 17 ton |
| 34) Mound Sand: (note: volume is base 15.8 up + 34.2 downslope + | ed on 3:1/4:1 slope from top of 10.0 ends + 16.2 under plus 2 | rock = 91 yd ³ or *1.4= | |
| 35) Loamy Cap: 38 ft. by 47 ft. 6" deep, | plus 20% gives | 40 yd ³ or *1.4= | 56 ton |
| 36) Topsoil: 42 ft. by 51 ft. 6" deep, | | 48 yd ³ or *1.4= | 67 ton |
| I hereby certify that I have complet | ed this work in accordance with Brummer Septic LLC. Company | n all applicable ordinances, L-1347 License# | rules and laws. 4/16/2021 Date |

Installer Summary

| 1120 gallon Septic tank (n | ninimum) Tank options: Effluent filter & alarm req'd |
|------------------------------|--|
| ·· · | Install Jacobeson 1650 2/Compartment tank |
| 533 gallon Dose tank (mi | nimum) at <u>12.69</u> gpi |
| 18 GPM @ 21 | ft. of head, Pump required |
| 4.4 inch swing on Deman | nd float which translates to roughly 3.2 inches of float tether length |
| | if time dosing is required> 3.1 minutes ON time & 5.1 hours OFF time |
| | of tank to "pump ON" float, or 12 inches to "timer ON" float |
| 19 inches from bottom | of tank to "Hi Level Alarm" or 29 inches to "Hi level alarm" if time dosed |
| 75 ft. of 2.0 | inch supply line with end feed manifold connection |
| | (Tip: "top feed" manifold to control drainback) |
| 18 inch, or 1.5 | ft. Sand Lift Mound |
| 10.0 ft. wide by 25.0 | ft. long Rock bed |
| 3 laterals 1.50 | inch diameter 23.0 ft. long 3.0 ft. lateral spacing |
| 1/4" inch perfs 3.0 | ft. perforation spacing |
| Yes | |
| Effluent filter & alar | |
| 3 clean out & valve bo | X assemblies |
| 33.3 ft. Total sand ABSOR | PTION width (minimum) |
| 8.3 | ft. upslope and sideslope (sand beyond rockbed, minimum) |
| 15.0 | ft. Downslope (sand beyond rockbed, minimum) |
| Specific slope ratios | give BERM widths (topsoil beyond rockbed) of: |
| 4:1 upslope ratio 12 | ft. upslope berm |
| 3:1 sideslope 12 | ft. sideslope berms West end Berm 3:1 = 12 Ft. East End Berm 3.5:1 = 14 ft. |
| 4:1 downslope 20 | ft. downslope berm |
| | |
| | |
| | - 18" cover on top |
| LUpslope berm 12 | |
| K ^{Upslope berm 12} | Downslope berm 20 |
| | |
| | 12" cover on sides |
| 1.5 | Clean sand lift |
| | |
| 1.5 | Depth to Limiting |
| Limiting Condition | The set of the and and and the set in the set in the set in the set in the set of the se |
| < | Absorption Width 33.3 |
| Note: | 1 |
| | Absorption Width is measured from the Bed equally in both directions. |
| | orption Width is measured downhill from the upslope edge of the Bed. |
| | |
| Rock Bed: 12.0 | yd ³ or *1.4= 17 ton 9 inches under pipe |
| Mound Sand: 91 | yd ³ or *1.4= 128 ton calculation based on 3:1/4:1 slope from top of rock |

calculation based on 3:1/4:1 slope from top of rockbec

6" deep

56

67

ton

ton

Loamy Cap:

Topsoil:

40

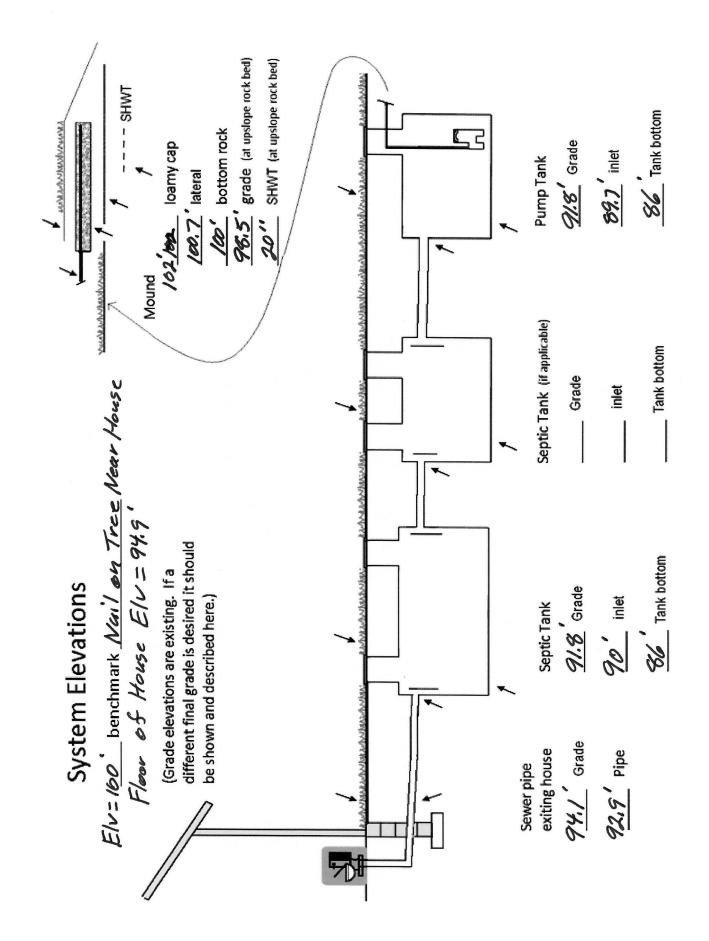
48

yd³ or *1.4=

yd³ or *1.4=

6" deep

| | 17150 2101th DI Antico AAN 66 | INSPECTOR CHI | ECKLIST - mound | | |
|----------|--|---------------------------|------------------------------------|---|--|
| | 42450 310th PL Aitkin MN 564 | | | | |
| | WELL setbacks: | | sewer line (5 psi for 15 m | | |
| | DDODEDTV I DUES | 50' to everything | 100' to dispersal area wit | h shallow well | |
| \vdash | PROPERTY LINES setback: | 10' to everything | | | |
| | Road setback: | platted: 10' prop line. | Metes & bounds: out of r | oad easement, or outer ditch. | |
| | LAKE / BLUFF setback: | 20 for bluff. Lakes: (| GD, RD, NE | Protected wetland | |
| H | Building setbacks: | 10' for everything, 20 | for dispersal area. | | |
| | WATER LINE under pressure s | e 10 to bed, tank & sewe | er line. (else sewer line > ' | 12" below, else ok w/pvc) | |
| | Sewer line & baffle connecti | on $(no 90's 3' between$ | 00 45's clone min 1" in 9' | | |
| | (no depth reg's, cle | an out every 100', Sch | $\frac{10}{100}$ | max z m 8) | |
| | (| | | | |
| | Septic tank and risers (wate | r tight, insulated, prop | er depth, existing verified | by pumping) | |
| | mfg | 1120 gallons | Effluent filter & alarm re | | |
| | | | dent fitter d dialini fe | 44 | |
| | Riser over outlet, riser over | inlet or center, and 6"+ | inspection pipe over any | remaining baffles. | |
| | Hofes effluent filter & alar | m | | | |
| | Dose tank risers and piping | (water tight, insulated, | proper depth, drainback) | | |
| | mfg | 533 gallons | | | |
| | daca numn | | | | |
| | dose pump | 18gpm21 | _head VERIFY PUMP CUR_ | XVE 3.1 min ON 5.1 hr OFF | |
| | float setting drop 4.4 | inches at | | | |
| | | _inches atatatatat | 12.7 gpi "DESIGNED" | 3.2 inches approx float tether length | |
| | | _gat dose and drawdown or | gpi "INSTALLED" : | inches float drop (field corrected | |
| | | | | and (no hand OO's) | |
| | Cam lock reachable from grade - 30" max. J-hook weep hole. Supply line access (no hard 90's) 2.0 inch supply pipe: Sch40, sloped 1/8"+, supported by 4" sch40 sleeve or compacted, and buried 6"+. splice box / control panel / electrical connections | | | | |
| \vdash | | | | | |
| | flow measurement: CT, ETM, time dosed, home water meter | | | | |
| | mound absorption area rough up | | | | |
| | mound rock dimensions | 10.0 X 25.0 | | | |
| H | | | _ est : 2" sand leaves < 1/8" s | ilt after 30 min) | |
| | | - (00. 20 | | | |
| | Absorption Sand beyond rock | 8.3 upslop | e | 15.0 downslope | |
| | | | | | |
| | Bermed topsoil beyond rockt | ped <u>12</u> upslop | e 12 sideslope | 20 downslope | |
| | | | | | |
| | cover depth of 12-18"+ | | VERIFY | | |
| | 3 laterals (1-2' from e | dge of rock) | | | |
| | 1.50 inch pipe size | (Sch40 pipe & fittings) | | | |
| | 3.0 ft lateral spacing | | | | |
| | | | | | |
| | <u>1/4</u> inch perforations | _ | | | |
| | 3.0 ft perforation spacin | g | | | |
| | Air inlet at end of latorals | and at top food manifal | | | |
| \vdash | Air inlet at end of laterals, a clean outs (no hard 90's) | and at top reed manifold | d if necessary. VER | UF Y | |
| \vdash | 4" inspection pipe to bottom | of rock anchored | | | |
| | - inspection pipe to bottom | or rock, anchored | VERIFY | | |
| | Abandon existing system - if | necessary | Re-use existing ta | nk certification | |
| | monitoring plan and type | | | | |
| | well abandonment form - if | necessary | | | |



{ Design Drawing } Property Owner: Joanne Gibbs Date: 4/16/21 Designer's Initials : JB Parcel ID. Number : 08-1-088000 Address : 42450 310th PI Aitkin MN 56431 one Inch = 40ft. 10 × 25 Rock Bend SW Berm Corner 15 2 St from Propline 16-Power meter 141 K Treewith Benchmark Nail at Elv=100' Ror Soil Bore 3 2" supply Pipe 75 410 1650 Tank 4" clean our & Pige Proposed well 65 House 18. Reach Property line as marked By Owner / Property Line as marked +125' to Lake to Tank Byowner Grade at NW Lot Corner near power box Elv. = 99.4'

Grade at NW Lot Corner near power box Elv. = 99.4' Floor of House Elv. = 94.9' Estimated Lake Elv. = 61'

| | Surface/ SHWT | Nail on Tree = | Bench M | lark 100' | Existing Grade |
|-------------|---------------|------------------|---------|-----------|---|
| Soil Bore 1 | 98.5'/ 20" | Bench Mark | 100' | | Upslope Edge of Rockbed Elv.= 98.5' |
| Soil Bore 2 | 98.3'/22" | Ground Elv. BM | 96.5' | | Bottom of Rockbed Elv.= 100' |
| Soil Bore 3 | 97.6'/23" | Ground Elv. Tank | 91.8' | | Top of Washed Sand Elv.= 100' |
| | Ground at | SW house | 94.1 | Corner | Elv. Of Sewer pipe at House Elv.= 92.9' |

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:

Property Lines

Structures

Setbacks

Access Route for Tank Maintenance

Disturbed/Compacted Areas Component Location OHW ordinary high water Lot Easements

Mound Design Notes - Aitkin county

| P | roperty Owner: | Joanne Gibbs | Date: | 4/16/21 | |
|----|---|--------------------------------------|-------------------------------|----------------------|-------------------|
| | Site Address: | 42450 310th PI Aitkin MN 56431 | PID: | 08-1-08 | 38000 |
| | Comments: | Mound design may not fol | low Aitkin co. Auto fill fo | rm for mound des | ign. |
| 1 | This is a type I m | ound for a 2 bedroom House. Pr | posed deep well location v | will be North of Hou | |
| 2 | Because of the D | Priveway and the South Property | ine designer used shorter | and berms than 4: | 1 |
| | West End Berm i | is at 3:1 = 12 Ft. East End Berm | is at $3.5.1 = 14$ Ft | cha bernis than 4. | 1. |
| | | vnslope are at 4:1 ratio. | | | |
| | | e marked by Owner. | | | |
| 3 | | is 2 ft from property line. Absorpt | ion area is + 16 ft from Pro | perty line | |
| 4 | | ation is a nail on a tree near NW | | porty mio. | |
| 5 | | 1650 Compartment tank for gravi | | house. | |
| | Set tank away from house for maybe future garage. | | | | |
| | | use is Elv. = 92.9' SW Corner of | | | |
| 6 | | r of rock bed upslope edge is 98. | | | |
| | The area size of | the rock bed is 10' x 25' . Absorp | tion area is 25' x 33.3. | | |
| | | area is 8.3 ft. up slope + 10 ft. ro | | pprox. 33.3 ft. wide | e sand base. |
| | Berms are 12ft. Upslope, 20ft. Down slope, 10ft. Rock bed = approx. 42ft. Wide. | | | | |
| | Overall mound size is approx. 42' wide x 51' long and approx. 3.5' high. | | | | |
| | | is at 3:1 = 12 Ft. East End Berm | - | Length is 14' + 25 | ' + 12 ' = 51 ft. |
| 7 | | is the nail on the tree near house | | - | |
| | Installer to double | e check bench mark. Installer sho | ould confirm bench mark ar | nd sand height Elv. | with inspector. |
| | | ecord bench mark Elv. and sand | | | |
| 8 | The top of the wa | ashed sand and bottom of rock be | ed is Elv. 100'. | | |
| | It is important that | at the soils do not get compacted, | and that clean washed sa | nd is used. | |
| 9 | The Jacobson 16 | 50 compartment tank will be grav | vity flow from dwelling. Inst | all the pump for 7 c | demand doses |
| | per day. approx. | 56 gallons per dose, 4.4 inches c | f tank level. Install alarm a | t 3 inches from pun | np on level. |
| | Install all manhole | es, inspection pipes and clean-ou | its to grade or above, insul | ate top of tank. | |
| | (Designer recom | mends manhole raised 4" above | finished grade.) | | |
| | Install Effluent Fil | lter on septic tank out-let with an | electric alarm. | | |
| 10 | | y pipe from tank to end manifold i | | | |
| | Install 1.5" lateral | ls with 9" of rock under them. (In | stall Lateral clean-outs at f | ar end of laterals. | Recommended) |

11 **Drill 1/4" holes for Perf sizing, 36" on centers.** Install 4" inspection pipe to bottom of rock bed, secure in rock bed and raise to above final grade.

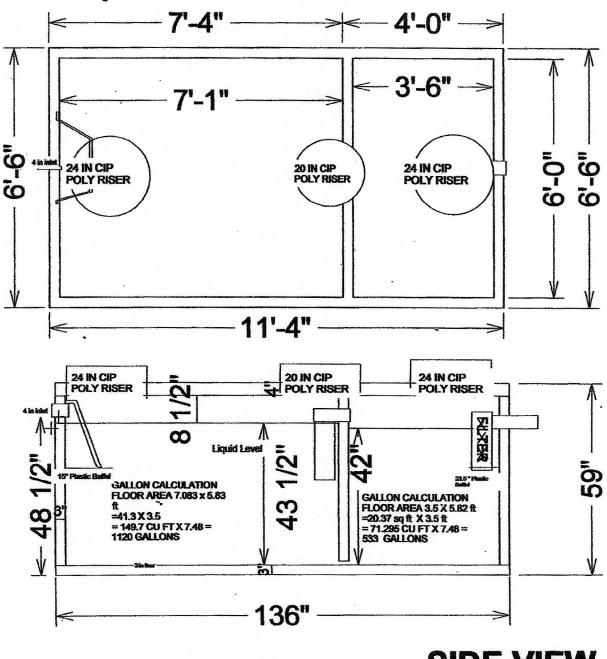
Designed to Aitkin Co. and MPCA recommendations and requirements.

Designer Signature

Brummer Septic LLC. Design Company L-1347 License#

<u>1650 Gallon 2 Compartment</u> <u>Septic Tank</u>

TOP VIEW



533 / 42" = 12.69 GPI

SIDE VIEW

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



Detailed Parcel Report

Parcel Number: 08-1-088000

General Information

| Township/City: | FLEMING TWP | | | |
|---------------------------------|---------------------------|------------------|--------------|--|
| Taxpayer Name: | GIBBS, JOSEPH & JOANNE | | | |
| Taxpayer Address: | 749 HOLLAND LANE NE | | | |
| | SPRING LAKE PARK MN 55432 | | | |
| Property Address: | 42450 310TH PL | | | |
| Township: | 48 | Lake Number: | 1010500 | |
| Range: | 25 | Lake Name: | FLEMING LAKE | |
| Section: | 21 | Acres: | 0.00 | |
| Green Acres: | No | School District: | 1.00 | |
| Plat: | FLEMING HEIGHTS | | | |
| Brief Legal Description: | LOT 6 BLK 1 | | | |
| | | | | |

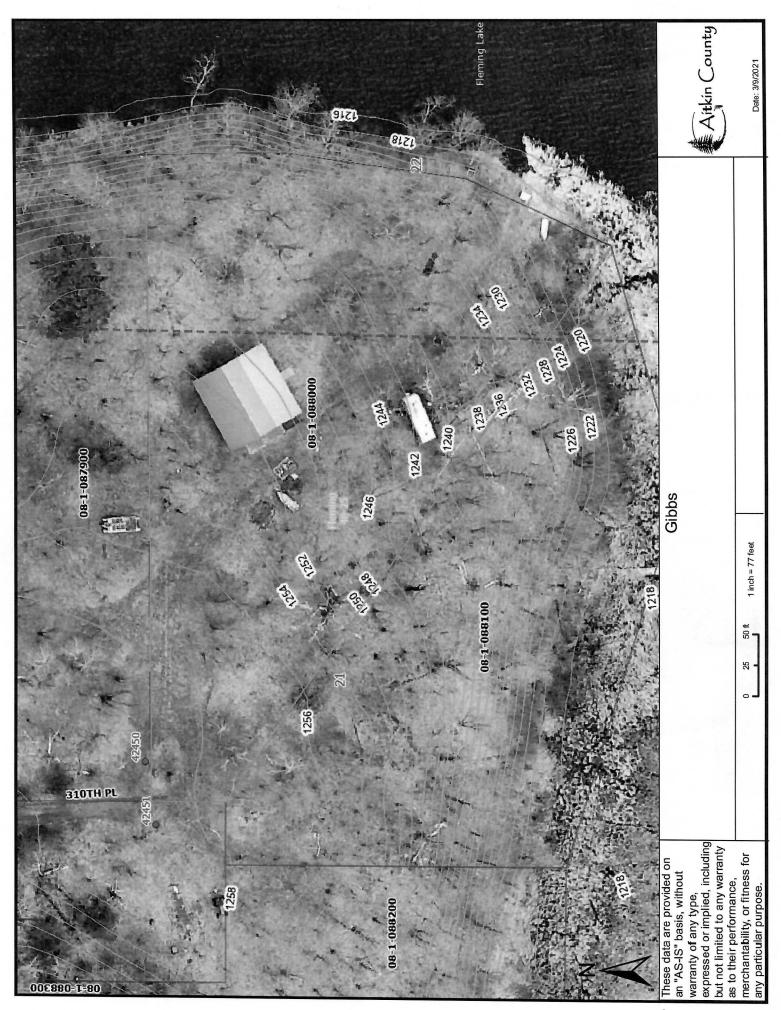
Tax Information

| Non-Comm Seasonal Residential Recreational | | |
|--|--|--|
| Unclassified | | |
| Unclassified | | |
| Non Homestead | | |
| 2020 | | |
| | | |

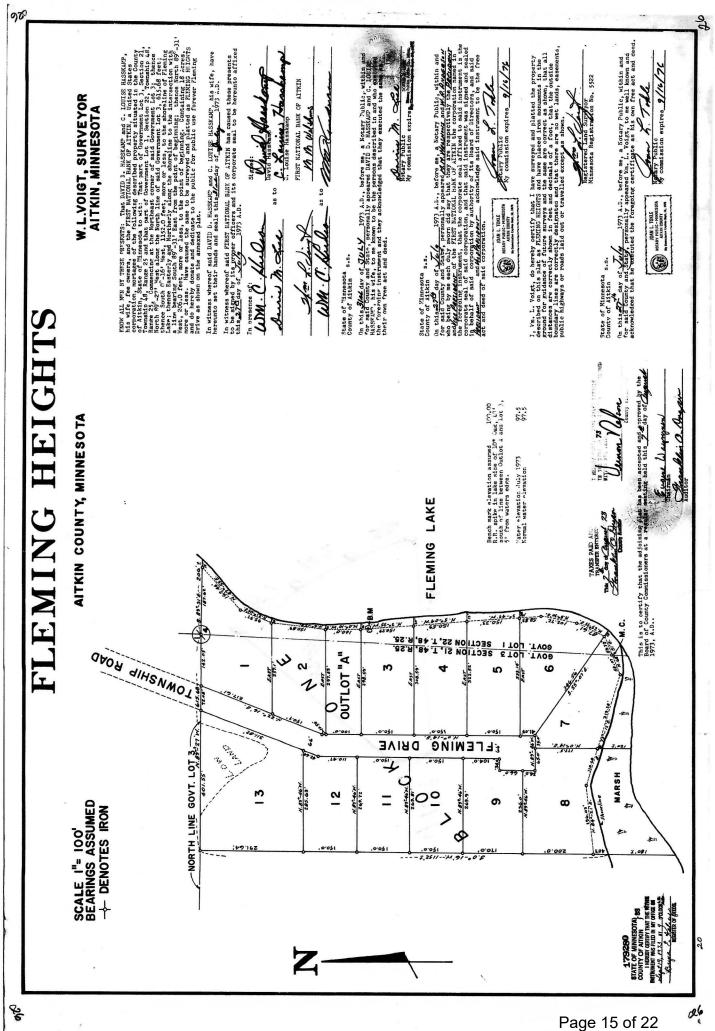
| Estimated Land Value: | \$45 <i>,</i> 700.00 |
|---|----------------------|
| Estimated Building Value: | \$61,700.00 |
| Estimated Total Value: | \$107,400.00 |
| Prior Year Total Taxable Value: | \$87,100.00 |
| Current Year Net Tax (Specials Not Included): | \$678.00 |
| Total Special Assessments: | \$0.00 |
| **Current Year Balance Not Including Penalty: | \$0.00 |
| Delinquent Taxes: | No |

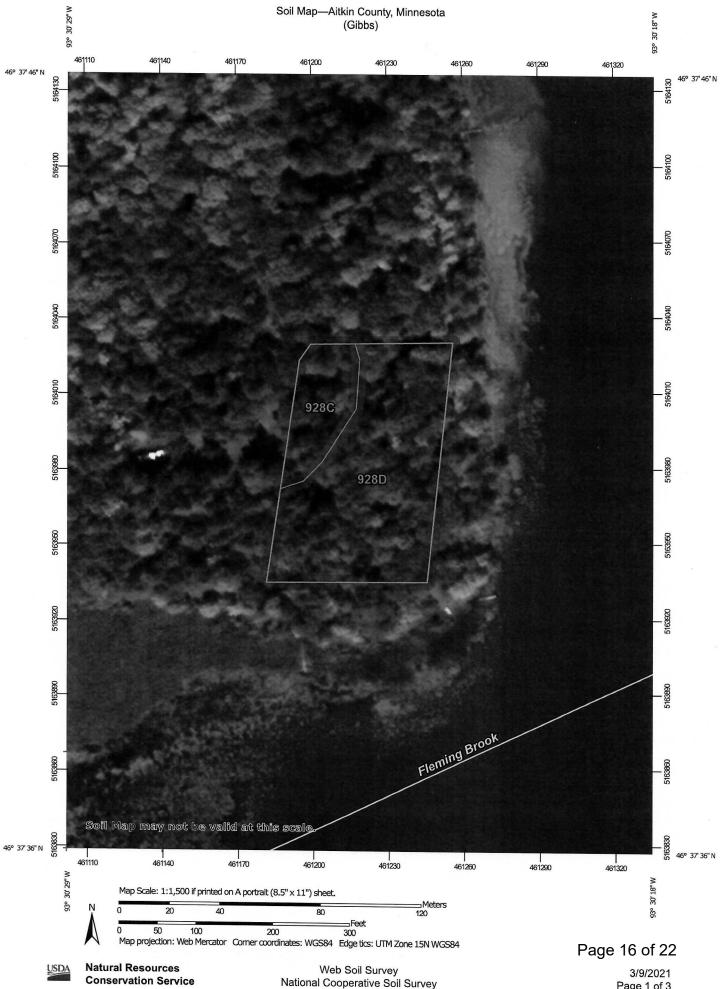
* For more information on delinquent taxes, please call the Aitkin County Treasurer's Office at 218-927-7325.

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



Page 14 of 22





Page 1 of 3

Aitkin County, Minnesota

928C—Cushing-Mahtomedi complex, 2 to 10 percent slopes

Map Unit Setting

National map unit symbol: gjk4 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

Cushing and similar soils: 50 percent Mahtomedi and similar soils: 35 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cushing

Setting

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

Typical profile

E - 0 to 16 inches: very fine sandy loam B/E - 16 to 19 inches: loam Bt - 19 to 44 inches: loam C - 44 to 60 inches: loam

Properties and qualities

Slope: 2 to 10 percent Depth to restrictive feature: More than 80 inches Drainage class: Well drained Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Calcium carbonate, maximum content: 10 percent Available water capacity: High (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3e Hydrologic Soil Group: B Forage suitability group: Sloping Upland, Acid (G090AN006MN)

JSDA

3/9/2021

Gibbs

Other vegetative classification: Sloping Upland, Acid (G090AN006MN) Hydric soil rating: No

Description of Mahtomedi

Setting

Landform: Moraines 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 sand E - 4 to 15 inches: coarse sand Bw - 15 to 26 inches: gravelly coarse sand C - 26 to 60 inches: gravelly sand

Properties and qualities

Slope: 2 to 10 percent
Depth to restrictive feature: More than 80 inches
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 content: 15 percent
Available water capacity: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s Hydrologic Soil Group: A Forage suitability group: Sandy (G090AN022MN) Other vegetative classification: Sandy (G090AN022MN) Hydric soil rating: No

Minor Components

Sandwick and similar soils

Percent of map unit: 4 percent Landform: Flats Hydric soil rating: Yes

Meehan and similar soils

Percent of map unit: 4 percent Hydric soil rating: No

Cathro and similar soils

Percent of map unit: 4 percent Landform: Bogs Hydric soil rating: Yes

JSDA

Gibbs

Alstad 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 21, Jun 4, 2020

3/9/2021 Page 3 of 3

Aitkin County, Minnesota

928D—Cushing-Mahtomedi complex, 10 to 25 percent slopes

Map Unit Setting

National map unit symbol: gjk5 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

Cushing and similar soils: 45 percent Mahtomedi and similar soils: 40 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cushing

Setting

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

Typical profile

E - 0 to 7 inches: loam *B/E* - 7 to 17 inches: loam *Bt* - 17 to 30 inches: loam *C* - 30 to 60 inches: loam

Properties and qualities

Slope: 10 to 25 percent Depth to restrictive feature: More than 80 inches Drainage class: Well drained Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Calcium carbonate, maximum content: 10 percent Available water capacity: High (about 9.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 4e Hydrologic Soil Group: C Forage suitability group: Sloping; Fine Texture (G090AN023MN)

JSDA

Other vegetative classification: Sloping; Fine Texture (G090AN023MN) Hydric soil rating: No

Description of Mahtomedi

Setting

Landform: Moraines 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 3 inches: loamy coarse sand E - 3 to 13 inches: coarse sand Bw - 13 to 25 inches: gravelly coarse sand C - 25 to 60 inches: gravelly sand

Properties and qualities

Slope: 10 to 25 percent
Depth to restrictive feature: More than 80 inches
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 content: 15 percent
Available water capacity: Low (about 4.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s Hydrologic Soil Group: A Forage suitability group: Sandy (G090AN022MN) Other vegetative classification: Sandy (G090AN022MN) Hydric soil rating: No

Minor Components

Alstad and similar soils

Percent of map unit: 8 percent Hydric soil rating: No

Cathro and similar soils

Percent of map unit: 7 percent Landform: Bogs

JSDA

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Aitkin County, Minnesota Survey Area Data: Version 21, Jun 4, 2020