

EXPERT SERVICE. LASTING VALUE. CLEAN WATER

Septic System Compliance Inspection – Existing System

DATE 3/13/2023

Property Owner: Bryon Anderson Street Address: 32681 355th Ave City, State, Zip: Aitkin, MN 56431

Dear Bryon Anderson and Aitkin County

A compliance inspection was performed at the above location. Soil investigations were conducted to determine the seasonal high water table, the drain field was also inspected to ensure there was no ponding or leakage, and the septic tank was inspected. The system was found to be.

• Impact on Public Health:

Compliant; no impact on public health.

Tank Integrity:

Compliant; tank(s) are functioning at operating level and are protecting the groundwater.

• Other Compliance Conditions:

Compliant; meets conditions of A, B, & C.

Soil Seperation:

Compliant, soil has 3' of vertical separation to saturated soils.

Operating Permit and Nitrogen BMP:

Not applicable

I included a copy of the compliance documents and site sketch. Copies were sent to Aitkin County on your behalf. If you have any further questions, please do not hesitate to give us a call. Thank you for your business!

Sincerely

Eric Otte, Lic. No. 8453 Compliance and Design Office: 320-983-2447

ericotte@septiccheck.com



EXPERT SERVICE. LASTING VALUE. CLEAN WATER

Disclaimer

The septic system inspection conducted for this property, meets the MN chapter 7082.0700 Subp. 4. Requirements for existing system inspections.

We recommend this system be serviced and inspected at least every 36 months by a septic professional.

Water use in excess of 50% of the design flow of the septic system may lead to premature failure.

This inspection does not guarantee future performance.

Additions to the home or use of the property may require the property owner to increase the system capacity.



Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS)

520 Lafayette Road North St. Paul, MN 55155-4194

Doc Type: Compliance and Enforcement

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf.

Property information	Local tracking number:	
Parcel ID# or Sec/Twp/Range: 24-1-086400	Reason for Inspection Building Permit	
Local regulatory authority info: Aitkin		
Property address: 32681 355 th Ave Aitkin, MN 56431		
Owner/representative: Bryon Anderson	Owner's phone: 507-450-7739	
Brief system description: Wieser WLP 550/450/650/ FDL Bio 50	00, BioMicrobics-FAST, UV, dosed to a 10'x38' mound.	
System status		
System status on date (mm/dd/yyyy): 3/6/2023		
☐ Compliant – Certificate of compliance*	☐ Noncompliant – Notice of noncompliance	
(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and	Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.	
abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)	An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt	
*Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.	of this notice or within a shorter period if required by local ordinance or under section 145A.04 subdivision 8.	
Reason(s) for noncompliance (check all applications	ble)	
☐ Impact on public health (Compliance component #1	i) – Imminent threat to public health and safety	
☐ Tank integrity (Compliance component #2) – Failing	g to protect groundwater	
☐ Other Compliance Conditions (Compliance compon	nent #3) – Imminent threat to public health and safety	
☐ Other Compliance Conditions (Compliance compon	nent #3) – Failing to protect groundwater	
System not abandoned according to Minn. R. 7080.	.2500 (Compliance component #3) – Failing to protect groundwater	
☐ Soil separation (Compliance component #5) – Failii	, , , , , , , , , , , , , , , , , , , ,	
<u> </u>	impliance component #4) – Noncompliant - local ordinance applies	
Comments or recommendations	mpilation competition (1) Troncompilation local oralination applice	
Comments of recommendations		
Certification		
	d to determine the compliance status of this system. No determination of own conditions during system construction, possible abuse of the system,	
By typing my name below, I certify the above statements to be true used for the purpose of processing this form.	e and correct, to the best of my knowledge, and that this information can be	
Business name: Septic Check	Certification number: 8453	
Inspector signature: Eric Otte Gui Allo	License number: 2624	
(This document has been electronically sig	gned) Phone: 320-983-2447	
Necessary or locally required supporting do	ocumentation (must be attached)	
	required forms 🛛 Tank Integrity Assessment 🔀 Operating Permit	
Other information (list):		
_ outs. mornadon (not).		

ess Name: Septic Check		Dati	e: <u>3/6/2023</u>
pact on public health – Co	ompliance comp	ponent #1 of 5	
Compliance criteria:		Attached supporting documenta	tion:
System discharges sewage to the	☐ Yes* ☒ No	Other:	
ground surface		☐ Not applicable	
System discharges sewage to drain tile or surface waters.	☐ Yes* ⊠ No		
System causes sewage backup into dwelling or establishment.	☐ Yes* ⊠ No		
Any "yes" answer above indicates imminent threat to public health an			
Describe verification methods and	results:		
Visual Inspection			
nk integrity – Compliance	component #2	of 5	
nk integrity — Compliance Compliance criteria:	component #2		tion:
nk integrity — Compliance Compliance criteria: System consists of a seepage pit,	component #2	of 5 Attached supporting documenta ☐ Empty tank(s) viewed by inspector	tion:
Compliance criteria:	· 	Attached supporting documenta	
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	· 	Attached supporting documenta	Timberlal
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	Yes* ⊠ No	Attached supporting documenta Empty tank(s) viewed by inspector Name of maintenance business:	Timberlal
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Ρ	Property Address: 32681 355 th Ave Aitkin, MN 56431	
В	Business Name: Septic Check	Date: 3/6/2023
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unse	ecured?
	☐ Yes* ☐ No ☐ Unknown	our ou .
	3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safet	tv? ☐ Yes* No ☐ Unknown
	*Yes to 3a or 3b - System is an imminent threat to public health and safety.	y. E. see Zine E emmenn
	3c. System is non-protective of ground water for other conditions as determined by inspector?	☐ Yes* ☒ No
	3d. System not abandoned in accordance with Minn. R. 7080.2500?	☐ Yes* ☒ No
	*Yes to 3c or 3d - System is failing to protect groundwater.	
	Describe verification methods and results:	
	<u>—</u>	
	Attached supporting documentation: Not applicable	
4.	Attached supporting documentation: ☐ Not applicable ☐ Operating permit and nitrogen BMP* — Compliance component #4 o	of 5
<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4 o	
<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4 or Is the system operated under an Operating Permit? □ Yes □ No	If "yes", A below is required
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4.	Operating permit and nitrogen BMP* – Compliance component #4 or Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? ☐ Yes ☐ No BMP = Best Management Practice(s) specified in the system design If the answer to both questions is "no", this section does not need to be completed.	If "yes", A below is required If "yes", B below is required
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https://www.pca.state.mn.us wq-wwists4-31b • 4/28/2021 800-657-3864

usiness Name: Septic Check		Date: <u>3/6/2023</u>
Soil separation – Compliance co	mponent #5 o	f 5
Date of installation 4/17/2017 (mm/dd/yyyy)		
Shoreland/Wellhead protection/Food beverage lodging? Compliance criteria (select one):	⊠ Yes □ No	Attached supporting documentation: ☐ Soil observation logs completed for the report ☐ Two previous verifications of required vertical separations.
5a. For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:	d Yes No*	☐ Not applicable (No soil treatment area)
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		
5b. Non-performance systems built April 1, 1996, or later or for non- performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	☐ Yes ☐ No*	Indicate depths or elevations A. Bottom of distribution media B. Periodically saturated soil/bedrock C. System separation D. Required compliance separation* *May be reduced up to 15 percent if allowed by Local Ordinance.
5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspecto License required > 2,500 gallons per day)		
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.		

Describe verification methods and results:

Upgrade requirements: (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

800-657-3864



Sewage tank integrity assessment form

520 Lafayette Road North St. Paul, MN 55155-4194

Subsurface Sewage Treatment Systems (SSTS) Program

Doc Type: Compliance and Enforcement

Purpose: This form *may* be used to certify the compliance status of the sewage tank components of the SSTS. This form is not a complete SSTS inspection report, only a tank integrity assessment, and may only certify sewage tank compliance status when entirely completed and signed by a qualified professional. SSTS compliance inspection report forms can be found at: https://www.pca.state.mn.us/water/inspections.

Instructions: This form may be completed, and signed, by a Designated Certified Individual (DCI) of a licensed SSTS inspection, maintenance, installation, or service provider business who personally conducts the necessary procedures to assess the compliance status of each sewage tank in the system. Only a licensed maintenance business is authorized to pump the tank for assessment. A copy of this information should be submitted to the system owner and be maintained by the licensed SSTS business for a period of five (5) years from the assessment date.

When this form is signed by a qualified certified professional, it becomes *necessary supporting documentation* to an Existing System Compliance Inspection Report: <u>Compliance inspection form - Existing system (wq-wwists4-31b)</u>. This form can be found on the MPCA website at https://www.pca.state.mn.us/water/inspections.

The information and certified statement on this form is **required** when existing septic tank compliance status is determined by an individual other than the SSTS Inspector that submits an inspection report. This form represents a third party assessment of SSTS component compliance and is allowable under Minn. R. 7082.0700, subp. 4(B)(1). This form is valid for a period of three years beyond the signature date on this form unless a new evaluation is requested by the owner or owner's agent or is required according to local regulations. Additional Administrative Rule references for this activity can be found at Minn. R. 7082.0700, subp. 4(B),(C), and (D) and; Minn. R. 7083.0730(C).

Owner information Owner/Representative Bryon and Marcia Anderson / Heather Johnson - Septic Check Property address: 32681 355th Ave., Aitkin, MN 56431 Local Regulatory Authority: Aitkin County Parcel ID: 24-1-086400 System status System status on date (mm/dd/yyyy): 3/3/2023 □ Certificate of sewage tank compliance ■ Notice of sewage tank non-compliance Compliance criteria: The SSTS has a seepage pit, cesspool, drywell, leaching pit, or other pit - "Failure to Protect ☐ Yes* ⊠ No Groundwater." The SSTS has a sewage tank that leaks below the designed operating depth - "Failure to Protect ☐ Yes* ☐ No Groundwater." The SSTS presents a threat to public safety by reason of structurally unsound (damaged, cracked, ☐ Yes* ☒ No or weak) maintenance hole cover(s) or lids or any other unsafe condition - "Imminent Threat to Public Health or Safety." Any "yes" answer above indicates sewage tank non-compliance. Company information **Designated Certified Individual (DCI) information** Company name: Timber Lakes Septic Service Inc Print name: Dan Swanson Business license number: L455 Certification number: C6023 I personally conducted the work described above as a Designated Certified Individual of a Minnesota-licensed SSTS inspection, maintenance, installation, or service provider Business. I personally conducted the necessary procedures to assess the compliance status of each sewage tank in this SSTS. By typing/signing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form. Date (mm/dd/yyyy): 3/3/2023 Designated Certified Individual's signature: Dan Swanson (This document has been electronically signed.)

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • Use your preferred relay service • Available in alternative formats wq-wwists4-91 • 5/10/21

6074 Keystone Rd 320-983-2447
Milaca, MN 56353 Fax: 320-983-2151

PROPERTY INFORMATION

Location: 32681 - 355th Ave.

Aitkin

Tax ID: 24-1-086400

Use: Residential, Single Family (3 bdrm)

System Design Flow: 450

GENERAL SYSTEM TYPE: FAST Res 2x Yr w/Test

Mail To: Bryon Anderson 1903 West Mark Street Winona, MN 55987

Fold

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 11/02/2022 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:Work Performed By:Submitted 11/04/2022 by:Septic CheckMichael PedersonHeather Johnson

COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

GENERAL SITE & SYSTEM CONDITIONS

The General Site and System Conditions were:	Fully Inspected
Components accessible for service:	YES
All required service performed (if no - specify omitted inspection items in notes):	YES
Surfacing effluent from any component (including mound seepage):	NO
Components appear to be watertight - no visual leaks:	YES
Improper encroachment (structures/impervious surfaces); cover; or settling problems observed:	NO

ONSITE SEWAGE SYSTEM INSPECTION DETAIL

TANK: Septic Tank - 1 Compartment - 1,650 Gal Tank w/ MicroFAST unit

This component was:	Fully Inspected
Effluent level within operational limits (if NO explain in comments):	YES
All required baffles in place (N/A = No baffles required):	YES
Compartment 1 Scum accumulation (Inches, if other specify):	0
Compartment 1 Sludge accumulation (Inches, if other specify):	1
Pumping recommended:	NO
Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc MicroFAST 0.5	
Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5	
This component was:	Fully Inspected
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES
Cleaned filter element:	NO
Unit audio/visual alarms functioning:	YES
Vent(s) and observation ports clear from obstructions:	YES
Vigorous boiling is occurring:	YES
Effluent is visually clear:	YES
The effluent smell is a damp, earthy odor (N/A = not observed):	YES
pH level within normal operating range (6-9): (Enter N/A if not performed):	N/A
Field sample performance results within operational limits (Enter N/A if not performed):	N/A
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches	NO
of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):	
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit.	NO
(If Yes, pumping needed):	
Pumping needed:	NO

Disinfection: Ultra Violet, Manufacturer= Salcor Engineering - 3G	
Manufacturer: Salcor Engineering Model: 3G	
This component was:	Fully Inspected
Alarm mechanism functioning as intended:	YES
Disinfection unit light on:	YES
Panel: Control - 1 Pump - Drainfield Dose Panel	
This component was:	Fully Inspected
Panel functioning (including alarm):	YES
Pump 1: on minutes (override in parentheses - if present):	1.6
Pump 1: off hours (override in parentheses - if present):	3.9
Pump 1: gallons per dose (override in parentheses - if present):	-
Pump 1: ETM hours (override in parentheses - if present):	34.46
Pump 1: Cycle Count (override in parentheses - if present):	1371
Pump: Effluent Pump, Manufacturer= Champion - CPE - Champion CPE4A	
Manufacturer: Champion Model: CPE	
This component was:	Fully Inspected
Controls functioning:	YES
Tested gallons per minute flow:	-
Media Filter: Mound 10' x 37.5'	
This component was:	Fully Inspected
Slope integrity maintained:	YES
Lateral lines flushed:	NO
Ponding present? If YES explain in comments:	NO
Average squirt height (if performed) (feet, if other specify):	-
TANK: Pump Tank - 650 Gal Pump Tank	
This component was:	Fully Inspected
Compartment 1 Scum accumulation (Inches, if other specify):	0
Compartment 1 Sludge accumulation (Inches, if other specify):	0
Pumping recommended:	NO

SAMPLING REPORT

Location: 32681 - 355th Ave.

Aitkin

24-1-086400

owner: Bryon Anderson
Use: Single Family

Service Company: Septic Check

6074 Keystone Rd Milaca, MN 56353 320-983-2447

Laboratory: A W Labs

Sample Date: 11/02/2022 Sample entered by: Heather Johnson Report submitted: 11/08/2022

Notes:

ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump - Drainfield Dose Panel	Effluent	Flow	450 GPD	99.6
Pump Tank - 650 Gal Pump Tank	Effluent	Fecal	000 cfu/100r	100

6074 Keystone Rd 320-983-2447 Milaca, MN 56353 Fax: 320-983-2151

PROPERTY INFORMATION

Location: 32681 - 355th Ave.

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Tax ID: 24-1-086400

Use: Residential, Single Family (3 bdrm)

System Design Flow: 450

GENERAL SYSTEM TYPE: FAST Res 2x Yr w/Test

Mail To: Bryon Anderson 1903 West Mark Street Winona, MN 55987

Fold

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 04/25/2022 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Submitted 04/26/2022 by: Company: Work Performed By: Septic Check Michael Pederson Heather Johnson

COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

The bulb wasn't all the way down in the glass sheath, so the UV was not treating properly like it should be. I placed the bulb down where is should be so next time we sample we can get better results. If the fecal sample does not meet limits this time, this could be the reason.

GENERAL SITE & SYSTEM CONDITIONS

]-		
The General Site and System Conditions were:	Fully Inspected	
Components accessible for service:	YES	
All required service performed (if no - specify omitted inspection items in notes):	YES	
Surfacing effluent from any component (including mound seepage):	NO	
Components appear to be watertight - no visual leaks:	YES	
Improper encroachment (structures/impervious surfaces); cover; or settling problems observed:	NO	

ONSITE SEWAGE SYSTEM INSPECTION DETAIL

TANK: Septic Tank - 1 Compartment - 1,650 Gal Tank w/ MicroFAST unit

This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
All required baffles in place (N/A = No baffles required):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	1	
Compartment 1 Sludge accumulation (Inches, if other specify):	1	
Pumping recommended:	NO	
Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc MicroFAST 0.5		
Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5		
This component was:	Fully Inspected	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
Cleaned filter element:	NO	
Unit audio/visual alarms functioning:	YES	
Vent(s) and observation ports clear from obstructions:	YES	
Vigorous boiling is occurring:	YES	
Effluent is visually clear:	YES	
The effluent smell is a damp, earthy odor (N/A = not observed):	YES	
pH level within normal operating range (6-9): (Enter N/A if not performed):	N/A	
Field sample performance results within operational limits (Enter N/A if not performed):	N/A	
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches	NO	
of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):		
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit.	NO	
(If Yes, pumping needed):		
Pumping needed:	NO	

Disinfection: Ultra Violet, Manufacturer= Salcor Engineering - 3G	
Manufacturer: Salcor Engineering Model: 3G	
This component was:	Fully Inspected
Alarm mechanism functioning as intended:	YES
Disinfection unit light on:	YES
Panel: Control - 1 Pump - Drainfield Dose Panel	
This component was:	Fully Inspected
Panel functioning (including alarm):	YES
Pump 1: on minutes (override in parentheses - if present):	1.9
Pump 1: off hours (override in parentheses - if present):	4
Pump 1: gallons per dose (override in parentheses - if present):	NA
Pump 1: ETM hours (override in parentheses - if present):	27.64
Pump 1: Cycle Count (override in parentheses - if present):	1118
Pump: Effluent Pump, Manufacturer= Champion - CPE - Champion CPE4A	
Manufacturer: Champion Model: CPE	
This component was:	Fully Inspected
Controls functioning:	YES
Tested gallons per minute flow:	NA
Media Filter: Mound 10' x 37.5'	
This component was:	Fully Inspected
Slope integrity maintained:	YES
Lateral lines flushed:	NO
Ponding present? If YES explain in comments:	NO
Average squirt height (if performed) (feet, if other specify):	NA
TANK: Pump Tank - 650 Gal Pump Tank	
This component was:	Fully Inspected
Compartment 1 Scum accumulation (Inches, if other specify):	0
Compartment 1 Sludge accumulation (Inches, if other specify):	0
Pumping recommended:	NO

SAMPLING REPORT

Location: 32681 - 355th Ave.

Aitkin

24-1-086400

owner: Bryon Anderson
Use: Single Family

Service Company: Septic Check

6074 Keystone Rd Milaca, MN 56353 320-983-2447

Laboratory:AW Labs

Sample Date: 04/25/2022 Sample entered by: Heather Johnson Report submitted: 05/02/2022

Notes: Will sample at next visit as the UV light was not adjusted properly. Ended up sampling it was 1640. With the UV light being adjusted, next sample at fall visit should passing.

ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump - Drainfield Dose Panel	Effluent	Flow	450 GPD	34.7

Septic Permit # 2017-1478

148P 2017-601633 12442731 004525

Aitkin County Planning & Zoning / Environmental Services 209 2nd Street NW, Room 100

Aitkin, MN 56431

Phone: 218-927-7342

Fax: 218-927-4372

Email: aitkinpz@co.aitkin.mn.us

Contact Information

Are you the Property Owner?

If we have questions on the application Name:
who should we contact?

Travis Johnson

Phone:

(320) 983 - 2447

Email Address: travis@septiccheck com

Mailing Address:

6074

Milaca MN 56353

Property Owner Contact

Property Owner Email Address: errinkrats@msn.com

Project Location Search

Property: Selected:

	Property Location				P	Property Address		Legal Description	Property A	ttributes	Owner Information	Legal Description Property Attributes Owner Information Tax Payer Information
Parcel Number	arcel Number Township or City Name TWP SEC RGE Pr	TWPS	EC F	3GE	Property Address	s Property City	Property Zip 5	Legal Description	Lake Number	Lake Name	Owner Name(s)	Property Address Property City Property Zip 5 Legal Description Lake Number Lake Name Owner Name(s) Taxpayer Name(s)
24-1-086400	NORDLAND TWP	46	7	46 11 26 3:	32681 355th Ave AITKIN	AITKIN	56431	56431 LOT 9 BLK 2	1,011,500	WLADIMIRAF	1,011,500 WLADIMIRAF OLSON, ROSE	OLSON, ROSE
									_	LAKE	TRUSTEE	TRUSTEE

Driving take 355th ave south off of CR 17. It is on the land bridge between section 10 lake and section 12 lake.

Directions

to the project

location.:
Does your Yes

property

have an E911

address

assigned?

1 of 3

5/5/17, 12:14 PM

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Licensed Septic Professional Septic Check Septic Check 2624 Installer License Number: Designer Name: installer Name: Installer:

System Information

File 2: Schreckenhaust_Design_w_OP_ppw.pdf File 1: 🤝 Schrackenhaust_Design.pdf Residential Other/Performance Sewer Please attach a septic system design.: Please select all that apply:

Invoice 04/24/2017

Charge	Cost	Quantity	Total
Residential Other/Performance Sewer added 04/24/2017 5:02 PM	\$350,00	×	\$350.00
\$350 Flat Fee			
Grand Total			
		Total (Paid)	\$350.00

Invoice 04/27/2017

Charge	Cost	Quantity	Total
Residential Operating Permit added 04/27/2017 8:18 AM	\$100.00	×	\$100.00
\$100 Flat Fee			
Grand Total			
		Total (Paid)	\$100.00

Approvals	
Approval	Signature
Applicant	Travis M. Johnson - 04/24/2017 5.02 PM dfa5bce979a09q98265650864417d260 lfb80129b5ada7acbb507dc1372cdc9b
#1 Adminstrative Approval Group	Kalea Suhkonen - OS/04/2017 4:17 PM 0512e56d735642ff55504c405ab4alca 105e0b9679021d87fdbbd0dcc3e6192a
#2 Inspector Group	Kalea Suhkonen - 05/05/2017 12:10 PM 4896abט562c8edfeffcf10b1f641dab5e ea4426d69e08b9456a6c422b7b41e
#3 Final Approval	Kalea Suhkonen - 05/05/2017 12.11 PM 1809293eb25f53689le0ffc4fff2bccdf 5db59436cb1de7elf8f4ac979f6ca03b

Admin Checklist

This application has been started by: Kalea Suihkonen Zoning District of project location: Shoreland Required OWHL setback distance: 75 ft. Low Interest Loan or SSTS Grant project? No Is this an After-The-Fact application? No Pumping Agreement Attached? No "Other" OHWL setback distance is:

DESIGN REVIEW CHECKLIST

5/5/17, 12:14 PM

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Text: PERMIT 42731 ISSUED FOR AN "OTHER" SEPTIC SYSTEM WITH OPERATING PERMIT #527 5.4-17 Terry Neff reviewed and approved design. KS SSTS Design: "Other"/Performance System New or Replacement SSTS: Replacement SSTS App-2017-001692 Next from Sequence gpd: 1-2,499 gpd 2017-1479 Zoning Inspector: Terry Neff SSTS Type: Type IV not applicable Does this system require an Operating Permit? Yes Operating Permit #: 527 Does this system belong to an other No Attach appropriate inspection forms; Is this a Cluster System? No # of bedrooms: 3 File 2: P_42731_OP_529.pdf File(s) File 1: Operating_permit.pdf P 42731 OP 529 pdf Operating permit pdf App. # App-2017-001633 Current Number Permit # 2017-1478 **UID** # 193330 Print View Public Notes



INDIVIDUAL SEWAGE SYSTEM DESIGN SUMMARY

Property Owner: Ron Schreckenhaust	Phone: 612-363-3404
Address: 32681 – 355 th Ave	Township:
City: Aitkin Zip: 56431	County: Aitkin
DESIGN USAGE	SITE CHARACTERISTICS
Single Family Home X Other	Soil type Clay Loam
Number of Potential Bedrooms3	Hydraulic Loading existing
Garbage Disposalno	Depth to restrictive layer 8**
Sewage Lift Pump no	
PUMP INFORMATION	CAPACITIES
Pump GPM & TDH Est. 29 GPM 16.1 TDH	Daily Water Use 450 Est Calc X
Cycles per day 6	Septic Tank Capacity 550 gallons
Gallons per cycle75 gallons	Pump Tank Capacity 650 gallons
Perforation size & spacing unknown Number, spacing, & diameter of laterals 3 laterals size unknown	Dimension of Rock Base 10' by 37.5'
Forcemain Size 2"	Depth of Rock Below Pipe Existing
TRENCH SYSTEM	Dimensions of Mound Existing
Type of trench	% Slope of Soil Under Mound Existing
Maximum Depth of trench	Upslope Dike Width Existing
Square Feet of bed Required	Downslope Dike Width Existing
Square Feet of bed Proposed	Sideslope Dike Width Existing
Lineal Feet of bed Proposed	
	APPROVAL
Ву	Date 4/24/2017
	ian Koski License #2624
See addit	ional information sheet if checked

Septic System Design Additional Information

Property Owner:	Ron Schreckenhaust	
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Description of Wastewater Treatment and Dispersal System

This design is for an existing septic system on a lake home in Aitkin County. A compliance inspection was done and found the mound system only had 1.5' of separation and was considered non-compliant. The proposed design would utilize a pretreatment system that would treat to level A to bring the system into compliance.

The existing tanks will need to be pumped and properly abandon prior to the installation of the Wieser three compartment treatment tank. There is a large maple tree that will need to be removed for the installation of the new tank. The existing mound system will need to have cleanouts installed and it is recommended that the lines be jetted prior to being connected to the new system.

The original design for the existing mound system does not provide orifice sizing or spacing. Assumptions have been made to get a general idea on dosing volumes and pump sizing. Once the system is receiving water, drawdowns should be performed on the pumps to assure proper dosing.

Keep all vehicles and construction equipment off septic area. Rutting and/or compacting the soil will change the percolation rates and may lead to system failure.

Homeowner to verify all property lines.

Elevations are referenced to Bench Mark on the top of the lid on the existing tank.

Installer to verify all elevations, dimensions, and ensure proper fall to pipes. Pitch pump chamber outlet to ensure complete drainback to pump chamber.

Establish turf to prevent erosion and freezing.

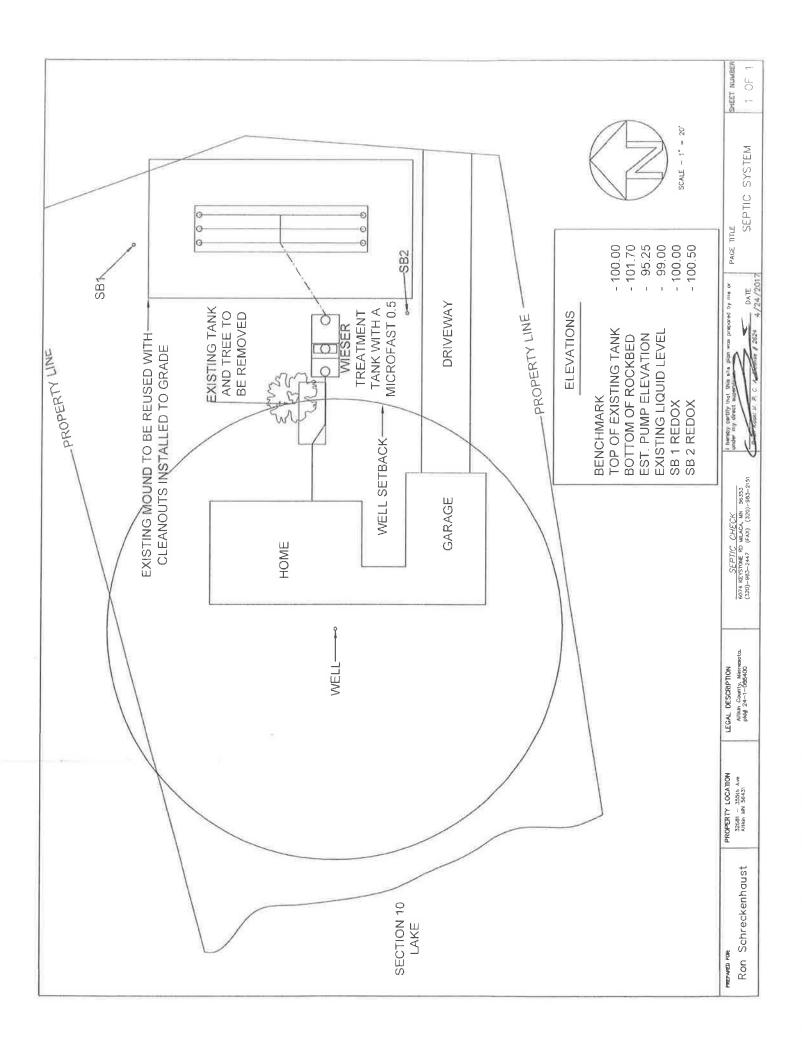
Each tank is to be pumped through the maintenance cover when serviced. Do not pump through inspection pipes.

Homeowner is responsible for all costs involved in servicing, monitoring, and mitigating the system.

All construction to be performed in accordance with MN Rule 7080.

Maintenance Requirements

See attached operating permit or management plan for details



Soil Profile Description

SR 1 & 2	Bucket Anger	8" & 10"	O. S. O.	Sunny
Observation #:	Equipment:	Limiting Laver:	Vegitation:	Weather:
4/24/2017	Travis Johnson	Ron Schreckenhaust		Cushing Mahtomedi
Date Completed:	Completed By:	Client / Project:	Landscape position:	Mapped soil type:

Observation #: 1	: 1 Primary or	or Alternate Site Elevation:	Elevation:			
Horizon Depth	Soil Texture	Matrix Color	Redox features	Shape	Grade	Consistence
0"-10"	Loam	10 YR 2/2		Granular	Strong	oldeivi
10"-14"	Clay Loam	7.5 YR 5/5	Concentrations	Blockv	Strong	Friable
					0	

Observation #: 2		Primary or Alternate Site Elevation:	Elevation:			
Horizon Depth	Soil Texture	Matrix Color	Redox features	Shane	Crade	Consistence
80	Loam	10 YR 2/2	Concentrations	Granular	Strong	Friable
8"-18"	Clay Loam	7.5 YR 5/5	Concentrations & Depletions	Blocky	Strong	Friable

Septic Check 6074 Keystone Rd Milaca, MN 56353
Phone: (320)-983-2447 Fax: (320)-983-2151 info@septiccheck.com www.SepticCheck.com



OSTP Design Summary Worksheet

University of Minnesota



Property Owner/Client: Ron Schreckenhaust	Project ID:		v 07.14.1
Site Address: 32681 - 355th ave Aitkin MN 56431	Date:	4/24/17	1
1. DESIGN FLOW AND TANKS			
A. Design Flow: 450 Gallons Per Day (GPD) Note: The estimated design flow including a safety factor. For long to daily flow is recommended to	erm performance	, the average	
Minimum Code Required Septic Tank Capacity: 450 Gallons, in 1	Tanks or Compa	rtments	
Recommended Septic Tank Capacity: 550 Gallons, in 1	Tanks or Compa	rtments	
Effluent Screen: Alarm:]		
C. Holding Tanks Only:	.		
Minimum Code Required Capacity: Gallons, in	Tanks		
Designer Recommended Capacity: Gallons, in	Tanks		
Type of High Level Alarm:			
D. Pump Tank 1 Capacity (Code Minimum): 450 Gallons Pump Tank 2 Capacity (Code	Minimum):		Gallons
Pump Tank 1 Capacity (Designer Rec): 650 Gallons Pump Tank 2 Capacity (Designer Rec):	gner Rec):		Gallons
Pump 1 29.0 GPM Total Head 16.1 ft Pump 2 GPM	Total Head		ft
Supply Pipe Dia. 2.00 in Dose Volume: 75.0 gal Supply Pipe Dia.	in Dose V	'olume:	gat
2. SYSTEM TYPE			
 ○ Trench ○ Bed ● Mound ○ At-Grade ○ Gravity Distribution ● Pressure Distribution ○ Drip ○ Holding Tank ○ Other - * Selection Required Benchmark Elev Benchmark Loc 	ation: 100.	of existing tan	
System Type Type of Distri	bution Media;		
□ Type I □ Type II □ Type IV □ Type V □ □ Drainfield Ro	ck Regist	ered Treatment Me	edia:
3. SITE EVALUATION:	LVI3(IIIŘ		
A. Depth to Limiting Layer: 4 in 0.3 ft B. Measured Land SI	one %:	1%	
C. Elevation of Limiting Layer: D. Soil Te		70	
E. Loc. of Restricive Elevation: F. Soil Hyd. Loading		GPD/ft	2
	: Rate:	MPI	
I. Code Maximum Depth of System: Mound in Comments:	. Nate:		_
4. DESIGN SUMMARY			
Trench Design Summary			
Dispersal Area ft ² Sidewall Depth in	Trench	Width	ft
Total Lineal Feet ft Number of Trenches Code	Maximum Trench		in
	gner's Max Trench		in
Bed Design Summary			
Absorption Area ft² Depth of sidewall in Co	ode Maximum Bed	Depth	in
	esigner's Max Bed		in
		_	

Minnesota Pollution Control Agency

OSTP Design Summary Worksheet

University of Minnesota



				Moui	ia pesign su	nmary						
	Absorption B	ed Area ().0 ft ²	B€	ed Length	0.0	ft	E	Bed Width	0.0	ft	
	Absorptio	n Width (0.0 ft	Clean	Sand Lift	0.0	ft	Berm Wid	th (0-1%)		ft	
	Upslope Berr	n Width	ft	Downslope Ber	m Width		ft	Endslope Be	rm Width	0.0	ft	
	Total System	Length (0.0 ft	Total Syste	em Width	0.0	ft	Contour Loa	ding Rate	0.0	gal/	ft
				At-Gra	ade Design Si	ımmary						
	Absorption Bed Width ft Absorption Bed Length ft System Height ft							ft				
	Contour Loading Rate gal/ft Upslope Berm Width ft Downslope Berm Width ft								ft			
	Endslope Berr	n Width	ft	Syste	m Length		ft		System W	idth		ft
			L	evel & Equal P	ressure Distr	ibution S	ummary					
No. c	of Perforated l	_aterals	3	Perforation	n Spacing	3	ft	Perf	oration Diam	eter	1/4	in
	Lateral D	iameter 2.	.00 in	Min. Delivere	d Volume	73	gal	Maximum I	Delivered Vo l	ume	113	gal
			Non-Le	evel and Unequ	ual Pressure	Distribut	ion Sumn	nary 📆				-
	Elevation		Pipe Volume	Pipe Length	Perforation	Ciza						
	(ft)	Pipe Size (in)	(gal/ft)	(ft)	(in)		icing (ft)	Spacing (in)				
Lateral 1									Minimun	n Deliver	ed Volur	ne
Lateral 2											gal	
Lateral 3												
Lateral 4									Maximur	n Deliver	ed Volur	ne
Lateral 5									L		gal	
Lateral 6												
5. Addil	tional Info for	r Type IV/Pret	reatment Des	ign								
A. Calcu	ulate the orga	anic loading										
1. Orgai	nic Loading to	o Pretreatment	: Unit = Design	n Flow X Estim	ated BOD in	mg/L in t	he effluer	nt X 8,35 ÷ 1,00	00,000			
		gpd X	170	mg/L X 8.35 :			0.64	lbs BOD/day				
2 Tuno.			L	1.15.2.1.0105			Micro Fast				\neg	
		ent Unit Being										
3. Calcu	ılate Soil Tred	itment System	Organic Loadi	ing: BOD conce	ntration afte	r pretrea	tment ÷ £	Bottom Area =	lbs/day/ft ²			
	25	mg/L X 8.35 ÷	1,000,000 ÷	0	ft ² =	0.000	lbs/da	y/ft²				
Comments/S	Special Design	n Consideratio	ns:									
										-		۱ ٦
-	I hereby cer	tify that I have	e completed t	his work in acco	ordance with	all applic	able ordi	nances, rules a	nd laws.			
	Bria	n Koskí		/://	/			2624		04/24	1/17	
0)———	(De	signer)		(Sig	nature)		(L	icense #)		(Dat	(e)	

Minnesota Pollution

OSTP Pressure Distribution Design Worksheet

University of Minnesota



CU	itto Agency			_				OI IV.	TILLIT	JUIA		~ ~
Project ID: v 07							v 07.14.1					
1.	Media Bed Wid	th:					10 ft					
2. Minimum Number of Laterals in system/zone = Rounded up number of [(Media Bed Width - 4) ÷ 3] +) ÷ 3] +	1.					
			10		4)+1	= [3 la	terals	Does	not api	oly to a	t-grades
3.	Docianor Coloat	حسالة امام	h 6			F					,	3
J,	Designer Select Cannot be less					es) L	3 la	terals		Drivings in a large		
4.	Select <i>Perforat</i>	ion Spac	cing:				3.0 ft	4000	2841 AU		end.	17
5.	Select <i>Perforat</i>	ion Dian	neter Si	ze:		Ī	1/4 in	3-" poter	abiles spaniel 3" a	-	ottack	19-11-
6.	Length of Later	rals = M	edia Bed	d Length	n - 2 Fe	et.	ii ii	Per	Foration along: 16	Caw Mr Posts	reidfion spineling. 2	5(6'0")
	38	⊭ 2ft	t =	3	16	ft <i>F</i>	Perforation car	not be cl	oser the	en 1 foo	t from e	edae
7.	Determine the	Number	of Perfo	oration							,	5
/,	and round dowr	n to the	nearest	whole r	number		o and gongan o	Laterals	by the	reijon	161011 30	acing
	Number of Perf	oration	Spaces	3	6	ft	÷ 3	ft	=	12	Spa	aces
8.	Number of Perf below to verify value is double	the num	nber of p	perforat	ions pe	o 1.0 p r latera	lus the <i>Numbe</i> al guarantees le	r of Perfo	ration S 10% dis	paces . charge \	Check t	able 1. The
	. Perf	orations	s Per La	teral =	12	2 S	paces + 1 =	1	3	Perfs. Pe	er Later	al
					forations F	Per Latera	l to Guarantee <109	6 Discharge V	ariation			
		1/4 Inch F	Perforation					7/32	Inch Perfo	rations		
Perfo	oration Spacing (Feet)			pe Diameter (Inches)			Perforation Space	ng	Pipe I	Diameter (I	nches)	
	2	1	194	11/2	2	3	(Feet)	1	11/4	11/2	2	3
	21/2	10	13	18	30	60	2	11	16	21	34	68
	3	8	12	16	28	54	21/2	10	14	20	32	64
-	3	3/16 loch	12 Perforatio	16	25	52	3	9	nch Perfor	19	30	60
		37 TO IIKII			nches)		Perforation Spaci			ations Diameter (I	nchoel	
Perfo	ration Spacing (Feet)		Pipe Diameter (Inches)			3	(Feet)	1	11/4	11/2	2	3
	2	12	18	26	46	87	2	21	33	44	74	149
	21/2	12	17	24	40	80	21/2	20	30	41	69	135
	3	12	16	22	37	75	3	20	29	38	64	128
9. Total Number of Perforations equals the Number of Perforations per Lateral multiplied by the Number of Perforated Laterals. 13 Perf. Per Lat. X 3 Number of Perf. Lat. = 39 Total Number of Perf. 10. Select Type of Manifold Connection (End or Center): End Center												
	Select Lateral D					2.00		Center				

OSTP Pressure Distribution



Design Worksheet University OF MINNESOTA Minnesota Pollution Control Agency

	San Grand Control of the Control of		
12.	Calculate the Square Feet per Perforation. Recommended value is 4-11 ft 2 per perforation.	oration.	
	Does not apply to At-Grades		
a.	Bed Area = Bed Width (ft) X Bed Length (ft)		
	10 ft X 38 ft = 380 ft ²		
₌b.	. Square Foot per Perforation = Bed Area divided by the Total Number of Perforations		
	380 ft^2 ÷ 39 perforations = 9.7 $\text{ft}^2/\text{perforation}$	ıs	
13.	Select Minimum Average Head: 1.0 ft		
14.	Select Perforation Discharge (GPM) based on Table: 0.74 GPM per	Perforation	
15.	Determine required Flow Rate by multiplying the Total Number of Perfs. by the Pe	erforation D	ischarge.
	Perfs X 0.74 GPM per Perforation = 29 GPM		
16.	Volume of Liquid Per Foot of Distribution Piping (Table II): 0.170 Gallons/	ft	
17.	Volume of Distribution Piping =	Tab	le II
	= [Number of Perforated Laterals X Length of Laterals X (Volume of Liquid Per Foot of Distribution Piping]		f Liquid in
	2 V 26 6 V 0 170 1/6 1	Pipe Diameter	Liquid Per Foot
	3 X 36 ft X 0.170 gal/ft = 18.4 Gallons	(inches)	(Gallons)
18.	Minimum Delivered Volume = Volume of Distribution Piping X 4	1	0.045
	18.4 gals X 4 = 73.4 Gallons	1.25	0.078
		2	0.170
	manifold pipe	3	0.380
		4	0.661
	pipe from pump Cleanouts	· R	
	Manifold pipe		9
clean or	uts 9		9
	alternate location	· · · · · · · · · · · · · · · · · · ·	
	of pipe from pump		rate location e from pump
	R.	Pipe from pump	
		ripe from pung	
lomm	ents/Special Design Considerations:		
			- 1

Minnesota Pollution Control Agency

OSTP Basic Pump Selection Design UNIVERSITY Worksheet

of Minnesota



PUMP CAPACITY Project ID:						
Pumping to Gravity or Pressure Distribution: Gravity	Pressure	Selection	n require	d		
If pumping to gravity enter the gallon per minute of the pump;		GPM (10 - 45	gpm)			
2. If pumping to a pressurized distribution system:	29.0	GPM				
3. Enter pump description:	Time	Dosing Soil Treati	ment			
HEAD REQUIREMENTS		7 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -			Solf tr & po	earment syst int of dischar
	-				10	S. C C
Elevation Difference 10 ft			Supply line !	ength		
between pump and point of discharge:	nlot pipo			Elevation		
Distribution Head Loss: 5 ft		6		difference		
Additional Head Loss: ft. (due to special equipment, et	tc.)					
		f		- ·	Marie and	000100
Distribution Head Loss		Table I.Friction	200000			
Gravity Distribution = Oft		Flow Rate	1	e Diame		1
Pressure Distribution based on Minimum Average Head	d	(GPM) 10	9,1	1.25 3.1	1.5	0,3
/alue on Pressure Distribution Worksheet:	٩	12	12.8	4,3	1.8	0.3
Minimum Average Head Distribution Head Lo	.55	14	17.0	5.7	2.4	0.4
1ft 5ft	- 33	16	21.8	7.3	3.0	0.7
2ft 6ft		18	21.0	9.1	3.8	0.9
5ft 10ft		20		11,1	4.6	1.1
		25		16.8	6.9	1.7
1. Supply Pipe Diameter: 2.0 in		30		23.5	9.7	2.4
		35			12.9	3,2
2. Supply Pipe Length: 40 ft		40			16.5	4.1
Friction Loss in Plastic Pipe per 100ft from Table		45			20.5	5.0
		50 55				6.1 7.3
Friction Loss = 2.23 ft per 100ft of pipe		60				8.6
Determine Equivalent Pipe Length from pump discharge to soil dispersal ar	rea discharge	65				10.0
point. Estimate by adding 25% to supply pipe length for fitting loss. Suppl	y Pipe Length	70				11.4
(D.2) X 1.25 = Equivalent Pipe Length		75				13.0
40 ft X 1.25 = 50.0 ft		85				16.4
40 ft X 1.25 = 50.0 ft		95				20.1
Calculate Supply Friction Loss by multiplying Friction Loss Per 100ft (Line	E) by the Equi	ivalent Pipe Lengti	h (Line F)	and divide	e by 100,	
Supply Friction Loss =						
2.23 ft per 100ft X 50.0 ft	100	₹ 1.1	ft			
Total Head requirement is the sum of the Elevation Difference (Line A), the	he Distribution	Head Loss (Line B), Additio	nal Head l	oss (Line	C), and
the Supply Friction Loss (Line G)						
10.0 ft + 5.0 ft +	ft +	1.1	t =	16.1	ft	
PUMP SELECTION			4.7	1 .		
A pump must be selected to deliver at least 29.0 GPM (Line	e 1 or Line 2) v	with at least	16.	l feet	of total I	nead.
mments:						



OSTP Pump Tank Design Worksheet

University of Minnesota



Г	DETER	MINE TANK CAPACITY AND DIMENSIONS			Project ID:				v 07.14.15
19	Α.	Design Flow (Design Sum. 1A):	450	GPD					
- 00	В.	Min. required pump tank capacity:	450	Gat	C:Recommen	ded pump tank	. capacity:	650	Gal
	D.	Pump tank description:		1	Time to Press	ure			
-	MEASL	JRED TANK CAPACITY (existing tanks):							
2.	Α,	Rectangle area = Length (L) X Width (W)						1	
	71.	ft X	ft =		ft²				Width
	В.	Circle area = 3.14r ² (3.14 X radius X radius) 3.14 X 2	ft =		ft ⁷		4		
	С.	Calculate Gallons Per Inch. Multiply the area for the tank holds and divide by 12 to calculate the			o determine the	gallons per fo	l.eng ot	in	
		ft ² X 7.5 gal/ft ¹ ÷	12 in/ft	=		Gallons per	inch	(*	tadius
	D.	Calculate Total Tank Volume)
		Depth from bottom of inlet pipe to tank bottom	n:			in			
		Total Tank Volume = Depth from bottom of inl	et pipe (Line 4.A) X Gal	lons/Inch (Line	2)			
		in X 15.9	Gallons Per Inch	n =		Gallons			
	MANUF	FACTURER'S SPECIFIED TANK CAPACITY (when a	vailable):						
3.	Α.	Tank Manufacturer: Wieser					_	n calculations a cific tank: Substi	
	В.	Tank Model: WLP 550745076	650/-FDL Bio 500				different l	ank model will o	hange the
	С.	Capacity from manufacturer:			650 Gallo	ns		or timer setting if changes are n	
	D.	Gallons per inch from manufacturer:			15.9 Gallo	ns per inch			
	E.	Liquid depth of tank from manufacturer:			41.0 inche	25			
DET	ERMINE	DOSING VOLUME							
4.	Calcula	ate Volume to Cover Pump (The inlet of the pum	p must be at leas	t 4-incl	nes from the bo	ttom of the pur	тр		
	tank &	2 inches of water covering the pump is recomme	ended)						
	(Pump	and block height + 2 inches) X Gallons Per Inch (2C or 3E)						
		(10 in + 2 inches) X 1	15.9 Gallons	Per Inc	ch =	191	Gallons		
5.	Minim	ium Delivered Volume = 4 X Volume of Distributi	on Piping:						
	· Line	17 of the Pressure Distribution or Line 11 of Non-	level			73	Gallons (mir	nimum dose)	
6.	Calcula	ate Maximum Pumpout Volume (25% of Design Flo	ow)						
	Design	Flow: 450 GPD X	0.25	=		113	Gallons (ma	ximum dose)	
7.	Select	a pumpout volume that meets both Minimum and	d Maximum:			75	Gallons		
8.	Calcula	ate Doses Per Day = Design Flow + Delivered Volu	7				Volume o	f Liquid in	1
		450 gpd ÷ 75	_gal =		6 Doses	5	Pi	pe	
9.	A.	ate Drainback: Diameter of Supply Pipe =	ſ	2	linches		Pipe	Liquid	
			-		={		Diameter	Per Foot	
	В.	Length of Supply Pipe =		10	feet		(inches)	(Gallons)	
	С.	Volume of Liquid Per Lineal Foot of Pipe =		170	Gallons/ft		1	0.045	
	D.	Drainback = Length of Supply Pipe X Volume o		7507			1.25	0.078	
		40 ft X 0.170 gal/f	t = [6	8.8	Gallons		1.5	0.110	
10.	Total E	Oosing Volume = Delivered Volume plus Drainba		1.			2	0.170	
		75 gal + 6.8 gal =		Gallor			3	0.380	
11.	Minimu	m Alarm Volume = Depth of alarm (2 or 3 inches in X 15.9 gal/ii		th of ta 7,8	nk Gallons		4	0.661	
		J			1				



OSTP Pump Tank Design Worksheet

University of Minnesota



TIMER OF DEMAND FLOAT SETTINGS	
Select Timer or Demand Dosing: Timer Demand	Dose
A. Timer Settings	
12. Required Flow Rate :	
A. From Design (Line 12 of Pressure, Line 10 of Non-Level or Line 6 of Pump	
B. Or calculated: GPM = Change in Depth (in) x Gallons Per Inch / Time Inte	rval in Minutes *Note: This value must be adjusted after
in X 15.9 gal/in ÷	min = GPM installation based on
13. Flow Rate from Line 12.A or 12.B above.	pump calibration.
14. Calculate TIMER ON setting:	29 GPM
Total Dosing Volume/GPM	
	2.0
	Z,8 Minutes ON
15. Calculate TIMER OFF setting:	
Minutes Per Day (1440)/Doses Per Day - Minutes On 1440 min ÷ 6 doses/day - 2.8	227.2
	min = 237.2 Minutes OFF
16. Pump Off Float - Measuring from bottom of tank:	G.
Distance to set Pump Off Float=Gallons to Cover Pump / Gallons Per Inc. 191.16	
Sur.	gal/in = 12.0 Inches
17. Alarm Float - Measuring from bottom of tank:	
Distance to set Alarm Float = Tank Depth(4A) \times 90% of Tank Depth 41 in \times 0.90 =	[260]t.
111 X 0.90 =	
B. DEMAND DOSE FLOAT SETTINGS	
18. Calculate Float Separation Distance using Dosing Volume	
Total Dosing Volume / Gallons Per Inch	
gal ÷ gal/in =	Inches
19. Measuring from bottom of tank:	
A. Distance to set Pump Off Float = Pump + block height + 2 inches	
in + in =	Inches
B. Distance to set Pump On Float=Distance to Set Pump-Off Float + Float Se	paration Distance
in + in =	Inches
C. Distance to set Alarm Float = Distance to set Pump On Float + Alarm De	pth (2-3 inches)
in + in =	Inches
FLOAT SETTINGS	
DEMAND DOSING	THEO DOCING
DEMAND DOSING	TIMED DOSING
Inches for Dose:	
<u>+</u>	
Alarm Depth in	Alarm Depth 36.9 in
Pump On in	377 Gal
Pump Off in	Pump Off 12.0 in 82 Gal
	191 Gal

University of Minnesota

Onsite Sewage Treatment Program Septic System Management Plan



Bio-Microbics <u>Fixed Film Aerobic Treatment Unit</u> Flows 1500 gpd or less & Domestic Strength Waste

This Management Plan identifies some basic requirements for proper operation and maintenance of the Bio-Microbics wastewater treatment device for residential use up to 1500 gpd. Refer to the manufacturer's Operation and Maintenance Manual for Bio-Microbics wastewater treatment products for detailed instructions on proper system operation and maintenance. Refer to your soil treatment system management plan (below or above-grade) for additional management requirements.

The Bio-Microbics Manual, submitted by the manufacturer as part of the registration of this product in Minnesota, can be found at the Minnesota Pollution Control Agency's website http://www.pca.state.mn.us/programs/ists/productregistration.html.

SYSTEM COMPONENT	TASK	FREQUENCY	RESPONSIBLE PARTY	
BIO- MICROBICS	Monitor alarm	On-going	Homeowner	
RetroFAST® and	Clean vents on housing	On-going	Homeowner or Service Provider	
MicroFAST® Products	Monitor flow	Annually	Service Provider	
	Clean air filter on blower	Annually	Service Provider	
with Flows up to 1,500 gpd and	Check mechanical and electrical components	Annually	Service Provider	
Domestic Strength Waste	Perform operational field tests on influent/effluent quality including odor, color, turbidity, temperature, dissolved oxygen and pH as appropriate	Annually	Service Provider	
	Sample effluent as required in the local Operating Permit	See Operating Permit*	Service Provider	
	Check sludge level in all tanks; follow manufacturers recommendations for solids removal refilling with clean	Annually	Service Provider and Maintainer	

water with pumped		
For seasonal use, follomanufacturers guideling	As required based on seasonal usage	Service Provider

^{*} Systems designed to meet treatment level A or B with UV disinfection must collect effluent sample for fecal coliform annually at a minimum.

At the time of each service visit, Form 7-2: Aerobic Treatment Unit should be completed. See http://www.onsiteconsortium.org/omspchecklists.html. Sampling requirements are specified in local operating permits. The protocol for collection of wastewater samples is specified in the Bio-Microbics Manual for Minnesota.

Items not permitted in the Bio-Microbics wastewater systems are specified in the Bio-Microbics Manual for Minnesota.

Onsite Sewage Treatment Program Septic System Management Plan

University of Minnesota

Salcor <u>Ultraviolet Light Disinfection Device</u>



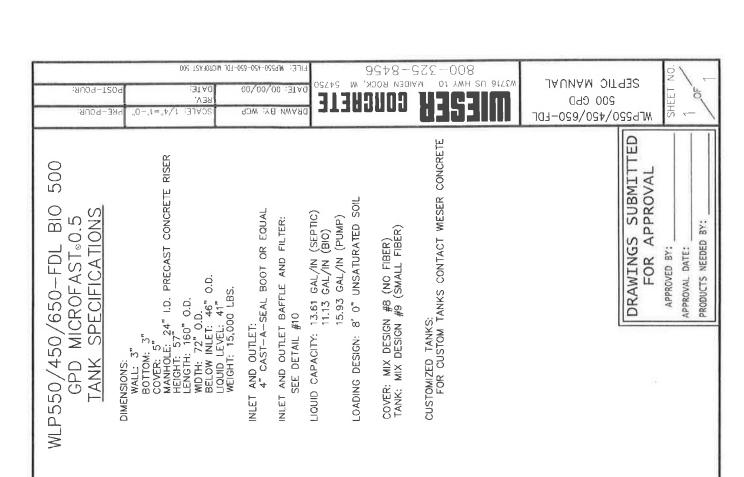
This Management Plan identifies some basic requirements for proper operation and maintenance of the Salcor'3G Ultraviolet Light (UV) disinfection device for residential use. Refer to Salcor's detailed Operation and Maintenance Manual for detailed instructions on proper operation and maintenance requirements.

Information regarding the Salcor UV disinfection device can be found at the Minnesota Pollution Control Agency's website at: http://www.pca.state.mn.us/programs/ists/productregistration.html.

SYSTEM COMPONENT	TASK	FREQUENCY	RESPONSIBLE PARTY		
Salcor UV disinfection device	Monitor alarm Check influent/effluent quality odor, color, turbidity	On-going Every six months before cleaning and replacing the bulb	Homeowner Service Provider		
	Collect sample for fecal coliform bacteria	Every six months before cleaning and/or replacing the bulb	Service Provider		
	Clean bulb ² Replace bulb ²	Every six months May be needed if sampling results do not meet prescribed Treatment Level A or B	Service Provider Service Provider		
		A minimum of every two years per manufacturer requirements	Service Provider		

- Alarm activation as indicated by an audible or visual sign indicates the UV light bulb which disinfects the effluent may be malfunctioning. The homeowner is required to contact the Service Provider immediately to have the bulb assessed and fixed. This is a condition of the operating permit to keep the UV bulb in working order.
- The UV light on this wastewater treatment system has the potential to cause serious eye damage if you look directly at the UV light. The UV light **should never** be looked at directly. Only trained Service Providers can clean and replace UV light bulbs.

Additional sampling requirements are specified in local operating permits. The protocol for collection of wastewater samples is specified in the Salcor O&M manual.



TOP VIEW

BOT.

478" BOTTOM

CPLG

TOP

4. Q. Q. J-OOTE

VENT

6" CLEAN OUT

4" VENT

BEOD

...tb

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"9t

4" CAS

4" CAS

..77

67%

874

160"

TANKS ARE MANUFACTURED TO MEET OR EXCEED ASTM C-1227 REQUIREMENTS

BIO-MICROBICS MicroFAST 0.5

AITKIN COUNTY ENVIRONMENTAL SERVICES

APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

PERMITTEE L	in Schreken	hzust	PARCEL NUM	MBER 24-	1-086400
ADDRESS	32681-35	55th Au	e Aitk	u MN	56431
LEGAL DESCRI				HILLIAN CONTRACTOR	
TELEPHONE #_	612-363-3	404	GIS LOCATIO	N	4
construction	N OF WASTEW site evaluation , operation, mo	and design; nitoring, serv	estimated cos	it of system int replacem	ent, and
Ins	tzu z	Wieser	three cons	protonent	trestwent
+znk Ins	with z	mizro	fist 05	Trestueni	+ vuit.
Peux	existry	merndo			
	<u>J</u>				
B. MONITORING	PLAN AND RE	PORTING F	REQUENCY:		
PARAMETER	COMPLIANCE	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
FLOW	450 gpd	Timer	Annel	(ecerely	Annual
5-DAY BOD	NA				
TOTAL NITROGEN					
TOTAL PHOSPHORUS					
TSS					v i e
FATS,OILS AND GREASE			14		
FECAL COLIFORM	1000 per 100ml	PumpTank	Annual	dropsample	Annual
SEPARATION DISTANCE	17"				
		and the second second		-10-90-110-5	
- Company of the Comp		NOON WELLOW TO THE PARTY OF THE			CONTRACTOR OF THE PROPERTY OF
		will perform t	he monitoring	of this sen	tic system.

C. MAINTENANCE PLANS

PARAMETER	LOCATION	F	REQUENCY
	100		
ANTINE TO THE TOTAL PROPERTY OF THE PROPERTY O			A. C.
			•
	HILL THE		
D. MITIGATION PLAN	1:	1	
neccisory.	just treatment	<u> </u>	IMER 1.4-
- A Company			
I hereby certify with my	signature as the designer,	, that all data	for the operating permit
hold Aitkin County har	correct to the best of my kr nless from loses, damages because of the information	, costs and o	harges that may be
	2624		4/27/17
Signature	License Numb	er	Date /
Trans Thomas	1074 Kuchan	pd Milrez	320-983.2447
Name (please print)	Address	1-165	Telephone#

AITKIN COUNTY ZONING

PERMIT NUMBER 42731	PARCEL 24-1-086400
Location 2 Lot Block Gov't.	11 46 26 Lot Section Twp. Rge.
Nature of Authorization To Ron With Operation	schreckenghaust ic System ing be mit # 527
New Construction Alteration Sewer Installation	NOTE: This permit must be posted in a conspicuous place on premises on which work is to be done and remain until work has been completed and inspected.
This permit expires one year from date of issuance	ZONING ADMINISTRATOR

No Portion of any Sewage Disposal System shall be Covered Prior to Inspection.

AITKIN COUNTY CERTIFICATE OF INSTALLATION/NOTICE OF NONCOMPLIANCE

This certificate	of installation/ne	otice of noncomp	oliance ha	is been i	issued this 15th
day of	May	, 20 <u>17</u> to	certify cor	npliance	\noncompliance with
Aitkin County's	Subsurface Sev	wage Treatment	System (Ordinand	e.
The premises of	covered by this o	certificate are leg	gally desc	ribed as	·
Lot 9 Block 2 A	LLIES DUCK PAS	SS			
		<u> </u>			
Section11	Township _	46 Range	26	_ Lake _	Section 10 Lake
PERMIT NO	42731	Owner Name	Rose O	Ison	
	81 355th Ave, Ait				
Installer Name		Ser	tic Check		
Type of System	n Inspected	-	Tank repla	cement	
Parcel Number	24-1-0864	00			
following: 1) Inspereference 2) Reviet Aitkin County's shall serve as a	ction of the insta ed permit and a w of as-built pla bunty's Subsurfa rmitted subsurfa Subsurface Sev a Notice of Viola	allation or construction designation designation designation designated in a secondary designation des	uction as accordance atment Sy ment syst System C	in according the with Street of the Street o	noncompliance with e, then the following
2) List of	specific violatio	ons of Ordinance	:		
3) Requi	rements for corr	rection or remove	al of violat	tions:	
4) Time	schedule for cor	mpliance:			
turned over to	the Aitkin Count	e above violatior y Attorney's Offi or registrations,	ce for furt	her lega	l action, which may
INSPECTOR S	IGNATURE	Bryan Hargro	we		

INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM AITKIN COUNTY. MINNESOTA

AITKIN COUN	ITY, MINNESOTA
Township Nordland Date of Inspection	on <u>5/11/2017</u> Permit Number <u>4273</u>
Owner Rose Olson	Parcel Number 24-1-086400
Project Address 32681 355th Ave	Installer Septic Check
city Attkin zip Code 5	
New Repair	DIST. or DROP BOX & TYPE
SETBACKS:	TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:
Buildings to tank(s)	Trench depth
Buildings to drainfield	Trench length
Well(s) 50' or 100'	Trench bottom width
Lake/Creek/Wetland	Trench spacing
,	Drainfield rock below pipe
SEPTIC TANKS: New X Existing	Size of gravelless pipe
Number of tanks installed	Depth of backfill
Liquid capacity and type Weiser 1650 Tri chal	Absorption area: square feet
Type of baffle Plastic	lineal feet
Inspection pipes	mounds: Existing
Manholes size 24"	Percent slope
Manhole to grade Yes No	Upslope dike width
30" misers	Downslope dike width
PUMPS: New Existing	Sideslope dike width
Tank capacity and type 6506 Pump tank - part	Drainfield rock below pipe
Pump manufacturer & model # Champion full	Depth of sand below rock
Horsepower & GPM 0.4 HP 29GPM CPE 4A/	2Perforation size & spacing
Feet of head 16.1 Min	Pipe size & spacing
Gallons per cycle 75G/cycle	Dimensions of rock bed
Size of discharge line 2"	Dimensions of sand base
Type & location of alarm Elec Alarm mtak	Final cover
Water meter Event Confer on tank	
DRAWING OF SYSTEM: (include soils)	
	/ / / / / / / / / / / / / / / / / / / /
Inspector's Comments: Tark has pretre	eatment unter middle
Inspector's Comments: Tark has pretree Chamber Tying in to existing	ng 10'x 37' mound.

10 Signature Super Factor Signature Signature Super Factor Signature Super Factor Signature Sign



520 Lafayette Road North St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (S\$T\$)

Doc Type: Compliance and Enforcement

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days Included for Soils information System replaced with pretreatment 1' separation req. System Status System status on date (mm/dd/yyyy): 3/2/2017 Compliant — Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.) Reseon(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) — Imminent threat to public health and safety Other Compliance Conditions (Compliance Component #3) — Imminent threat to public health and safety Tank integrity (Compliance Component #3) — Failing to protect groundwater Other Compliance Conditions (Compliance Component #3) — Failing to protect groundwater Other Compliance Conditions (Compliance Component #3) — Failing to protect groundwater Other Compliance Component #4) — Failing to protect groundwater Operating permit/monitoring plan requirements (Compliance Component #5) — Noncompliant Property Information Parcel ID# or Sec/Twp/Range: 24-1 — DS 6400 Property worre: Ron Schreckenghaust Owner's phone: 6123633404 Downer's representative: Regulatory authority: Aitkin County Regulatory authority: Aitkin County Regulatory authority: Aitkin County Regulatory authority: Aitkin County Regulatory authority phone: 218-927-7342 Certification Description: 750/250 Combo tank to a mound. Comments or recommendations:		
Included for Soils information System replaced with pretreatment I separation req.	Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:
System Status System status on date (mm/dd/yyyy): 3/2/2017 Compliant - Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.) Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) - Imminent threat to public health and safety Other Compliance Conditions (Compliance Component #3) - Imminent threat to public health and safety Tank Integrity (Compliance Component #2) - Falling to protect groundwater Other Compliance Conditions (Compliance Component #3) - Imminent threat to public health and safety Tank Integrity (Compliance Component #3) - Falling to protect groundwater Other Compliance Confidence Component #3) - Falling to protect groundwater Other Compliance Component #3 - Falling to protect groundwater Other Compliance Component #3 - Falling to protect groundwater Other Compliance Component #3 - Falling to protect groundwater Other Compliance Component #3 - Falling to protect groundwater Other Compliance Component #3 - Noncompliant Other Compliance C	table 40 days	wner 10484 6M+ 2-111-17
System Status System status on date (mm/dd/yyyy): 3/2/2017 Compliant - Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.) Resson(e) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) - Imminent threat to public health and safety Other Compliance Conditions (Compliance Component #3) - Imminent threat to public health and safety Tank Integrity (Compliance Component #2) - Falling to protect groundwater Soil Separation (Compliance Component #3) - Falling to protect groundwater Other Compliance Component #3) - Falling to protect groundwater Other Compliance Component #3) - Falling to protect groundwater Other Compliance Component #3) - Falling to protect groundwater Other Compliance Component #3) - Noncompliant Property Information	included for soils information	
System status on date (mm/dd/yyyy): 3/2/2017 Compliant - Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.) Reseon(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) - Imminent threat to public health and safety Other Compliance Conditions (Compliance Component #3) - Imminent threat to public health and safety Tank integrity (Compliance Component #2) - Falling to protect groundwater Other Compliance Conditions (Compliance Component #3) - Falling to protect groundwater Other Compliance Component #3) - Falling to protect groundwater Other Compliance Component #3) - Falling to protect groundwater Operating permit/monitoring plan requirements (Compliance Component #5) - Noncompliant Property Information	System replaced with pretreatment 1' separation	req.
Compilant - Certificate of Compliance (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.) Resson(s) for noncompilance (check all applicable)	System Status	
(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.) Resson(s) for noncompiliance (check all applicable)	System status on date (mm/dd/yyyy): 3/2/2017	
Impact on Public Health (Compliance Component #1) - Imminent threat to public health and safety Other Compliance Compliance Component #2) - Failing to protect groundwater Other Compliance Conditions (Compliance Component #3) - Failing to protect groundwater Other Compliance Conditions (Compliance Component #3) - Failing to protect groundwater Other Compliance Component #4) - Failing to protect groundwater Other Compliance Component #4) - Failing to protect groundwater Operating permit/monitoring plan requirements (Compliance Component #5) - Noncompliant Property Information	(Valid for 3 years from report date, unless shorter time (See L	
Property address: 32681 355th Ave Aitkin MN 56431 Reason for inspection: Property Transfer Owner's phone: 6123633404 Owner's representative: Representative phone: 218-927-7342 Brief system description: 750/250 Combo tank to a mound. Comments or recommendations: Certification Thereby certify that all the necessary information has been gathered to determine the compliance status of this system. No letermination of future system performance has been nor can be made due to unknown conditions during system construction, cossible abuse of the system, inadequate maintenance, or future water usage. Inspector name: Tom O'neil Certification number: 3365 Business name: License number: 2132 Phone number: 2132 Phone number: (218)927-6070 Necessary or Locally Required Attachments Soil boring logs System/As-built drawing Forms per local ordinance	 Impact on Public Health (Compliance Component #1) – Imminent to Other Compliance Conditions (Compliance Component #3) – Immin Tank Integrity (Compliance Component #2) – Failing to protect group Other Compliance Conditions (Compliance Component #3) – Failin Soil Separation (Compliance Component #4) – Failing to protect group 	nent threat to public health and safety undwater og to protect groundwater oundwater
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Comments or recommendations: Certification A present a little necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage. Inspector name: Tom O'neil Certification number: Susiness name: License number: 2132 Phone number: (218)927-6070 Necessary or Locally Required Attachments Soil boring logs System/As-built drawing	Owner's representative:	epresentative phone:
Certification hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage. Inspector name: Tom O'neil Certification number: Business name: License number: Phone number: (218)927-6070 Necessary or Locally Required Attachments Soli boring logs System/As-built drawing		egulatory authority phone: 218-927-7342
Certification hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, cossible abuse of the system, inadequate maintenance, or future water usage. Inspector name: Tom O'neil Certification number: 3365 Business name: License number: 2132 Phone number: (218)927-6070 Necessary or Locally Required Attachments Soli boring logs System/As-built drawing Forms per local ordinance		
Inspector name: Tom O'neil Certification number: 3365 Business name: License number: 2132 Inspector signature: Phone number: (218)927-6070 Necessary or Locally Required Attachments Soil boring logs System/As-built drawing Forms per local ordinance	Certification hereby certify that all the necessary information has been gathered to determine the description of figure associated by the content of the c	ne the compliance status of this system. No
Susiness name: Inspector signature: Description: Descr	possible abuse of the system, inadequate maintenance, or future water usage.	
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☑ Soil boring logs ☑ System/As-built drawing ☐ Forms per local ordinance		(210)327-0070
	_	ms per local ordinance
		nie por local ciulitatico

	Impact on Public Health - C	zompilance compor	
	Compliance criteria:		Verification method(s):
	System discharges sewage to the ground surface.	☐ Yes ☒ No	 ☑ Searched for surface outlet ☑ Searched for seeping in yard/backup in home
	System discharges sewage to drain tile or surface waters.	☐ Yes ☒ No	☐ Excessive ponding in soil system/D-boxes ☐ Homeowner testimony (See Comments/Explanation)
	System causes sewage backup into dwelling or establishment.	☐ Yes ☒ No	☐ "Black soil" above soil dispersal system ☐ System requires "emergency" pumping
	Any "yes" answer above indesystem is an imminent threat health and safety.		☐ Performed dye test ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
2	Tank Integrity Compliance	00mm	
4	Tank Integrity - Compliance Compliance criteria:	component #2 or 5	Verification method(s):
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ☐ No	☐ Probed tank(s) bottom ☐ Examined construction records
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		☐ Examined Tank Integrity Form (Attach)
	Sewage tank(s) leak below their designed operating depth.	Yes No	☐ Observed liquid level below operating depth ☐ Examined empty (pumped) tanks(s)
	If yes, which sewage tank(s) leaks:		Probed outside tank(s) for "black soil"
	Any "yes" answer above indi system is failing to protect gi		☑ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
3.	Comments/Explanation: Tank not pumped due to failing drainfe Other Compliance Condition		ponent #3 of 5
	a. Maintenance hole covers are dame	aged, cracked, unsecure	d, or appear to be structurally unsound. ☐ Yes* ☒ No ☐ Unknown
		to immediately and adve	ersely impact public health or safety. ☐ Yes* ☒ No ☐ Unknown

Inspector initials/Date: T.O. | 3/2/2017

Property address: 32681 355th Ave Aitkin MN 56431

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4. Soil Separation – Compliance co	omponent #4 of 5		
Date of installation: 7/26/1983	Unknown	Verification method(s):	
(mm/dd/yyyy) Shoreland/Wellhead protection/Food beverage lodging? Compliance criteria:	⊠ Yes □ No	Soil observation does not expire. Pro- observations by two independent pa- unless site conditions have been alto requirements differ.	arties are sufficient,
	☐ Yes ☐ No	☐ Conducted soil observation(s) (A	ttach horing logs)
For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	☐ res ☐ No	☐ Two previous verifications (Attacl	
Protection Area or not serving a food,		☐ Not applicable (Holding tank(s), no	• • •
beverage or lodging establishment:		Unable to verify (See Comments/E	
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.		Other (See Comments/Explanation)	
Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:	☐ Yes ⊠ No	Comments/Explanation:	
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*			
"Experimental", "Other", or "Performance"	☐ Yes ☐ No	Indicate depths or elevations	
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.		100.1	
2350 or 7080.2400 (Advanced Inspector License required)		B. Periodically saturated soil/bedrock	98.8
Drainfield meets the designed vertical separation distance from periodically		C. System separation	1.3
saturated soil or bedrock.		D. Required compliance separation*	31" - (2.55')
Any "no" answer above indicates to failing to protect groundwater.		*May be reduced up to 15 percent if Ordinance.	.,
5. Operating Permit and Nitrogen			Not applicable
Is the system operated under an Operating		☐ No If "yes", A below is requir	
Is the system required to employ a Nitroger	n BMP? ☐ Yes	☐ No If "yes", B below is requir	red
BMP = Best Management Practice(s) s	specified in the system o	design	
If the answer to both questions is "r	o", this section doe	s not need to be completed.	
Compliance criteria			
a. Operating Permit number:		☐ Yes ☐ No	
Have the Operating Permit requireme	nts been met?		
b. Is the required nitrogen BMP in place	and properly functioning	g? Yes No	
Any "no" answer indicates Nonc	ompliance.		

Upgrade Requirements (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas, Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

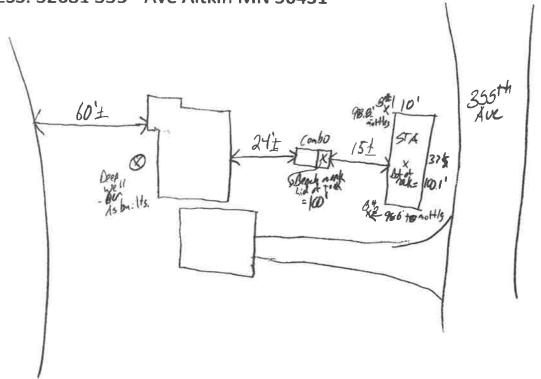
SKETCH SHEET AND SOIL BORING LOG

NSPECTOR: Tom O'neil/Tim Woodrow

DATE:3/2/2017

7ID#:24-1-086400

SITE ADDRESS: 32681 355th Ave Aitkin MN 56431



	SOIL BORING	#1
DEPTH	TEXTURE	COLOR
0-8"	TOPSOL	
8-10"	Soudy Loun	7.5 YK 45
10-14"	clay home	7.5 YR 45 7.5 YR 5/5
Mottles	e 10"	

COLOR
COLON
5 YK 5/5

