# Minnesota Pollution Control Agency

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

# Compliance Inspection Form

# Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

structions: Inspection results based on Minnesota Pollution Control Agency (MPCA quirements and attached forms – additional local requirements may also apply.	For local tracking purposes:
ubmit completed form to Local Unit of Government (LUG) and system owner ithin 15 days	
ystem Status	
System status on date (mm/dd/yyyy):	
	ompliant – Notice of Noncompliand ograde Requirements on page 3)
Reason(s) for noncompliance (check all applicable)  Impact on Public Health (Compliance Component #1) – Imminent threat Other Compliance Conditions (Compliance Component #3) – Imminent t Tank Integrity (Compliance Component #2) – Failing to protect groundw Other Compliance Conditions (Compliance Component #3) – Failing to protect grounds Soil Separation (Compliance Component #4) – Failing to protect grounds	hreat to public health and safety rater protect groundwater
Operating permit/monitoring plan requirements (Compliance Component	
Operating permit/monitoring plan requirements (Compliance Component	
Operating permit/monitoring plan requirements (Compliance Component	t #5) – Noncompliant
Operating permit/monitoring plan requirements (Compliance Component  roperty Information Parcel ID# or Sec/Twp/Ra roperty address: Reason	t #5) – Noncompliant  inge: n for inspection:
Operating permit/monitoring plan requirements (Compliance Component  roperty Information Parcel ID# or Sec/Twp/Ra roperty address: Reason roperty owner: Owner	t #5) – Noncompliant
Operating permit/monitoring plan requirements (Compliance Component roperty Information Parcel ID# or Sec/Twp/Ra roperty address: Reason roperty owner: Owner	t #5) - Noncompliant  inge:  n for inspection: s phone:
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Operating permit/monitoring plan requirements (Compliance Component)  roperty Information  roperty address:  roperty owner:  rwner's representative:  pocal regulatory authority:  Regula	t #5) – Noncompliant  inge: n for inspection: s phone: entative phone: tory authority phone:
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Operating permit/monitoring plan requirements (Compliance Component)  roperty Information  roperty address:  roperty owner:  where's representative:  cord regulatory authority:  rief system description:  comments or recommendations:  Regulation  hereby certify that all the necessary information has been gathered to determine the termination of future system performance has been nor can be made due to unknown.	t #5) – Noncompliant  inge: In for inspection: Is phone: Interval authority phone: In for inspection: In for
Operating permit/monitoring plan requirements (Compliance Component roperty Information  Parcel ID# or Sec/Twp/Ra roperty address: Owner' reporty owner: Reason Owner' reporty sepresentative: Representative: Regular regulatory authority: Regular refers system description: Comments or recommendations:  Parcel ID# or Sec/Twp/Ra Reason Owner' Representative: Representative: Regular refers system description: Comments or recommendations:  Parcel ID# or Sec/Twp/Ra Reason Owner' Representative: Representative: Regular refers system description: Comments or recommendations:  Parcel ID# or Sec/Twp/Ra Reason Owner' Representative: Representative: Regular refers system description: Comments or recommendations:  Parcel ID# or Sec/Twp/Ra Reason Owner' Representative: Representative: Regular refers system description: Comments or recommendations:  Parcel ID# or Sec/Twp/Ra Reason Owner' Representative: Representative: Representative: Representative: Regular refers system description: Comments or recommendations:  Parcel ID# or Sec/Twp/Ra Reason Owner' Representative: R	t #5) – Noncompliant  inge: In for inspection: Is phone: Interval authority phone: In for inspection: In for
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Operating permit/monitoring plan requirements (Compliance Component)   Parcel ID# or Sec/Twp/Ra   Reason   Parcel ID# or Sec/Twp/Ra   Re	e compliance status of this system. No own conditions during system construction, eation number:
Operating permit/monitoring plan requirements (Compliance Component)   Parcel ID# or Sec/Twp/Ra   Reason   Parcel ID# or Sec/Twp/Ra   Re	e compliance status of this system. No own conditions during system construction, cation number:  545  energe:

operty address:		Inspector initials/Date:
. Impact on Public Health – Co	mpliance component	#1 of 5
Compliance criteria:		Verification method(s):
System discharge sewage to the ground surface.	☐ Yes ☐ No	<ul><li>Searched for surface outlet</li><li>Searched for seeping in yard/backup in home</li></ul>
System discharge sewage to drain tile or surface waters.	☐ Yes ☐ No	<ul> <li>Excessive ponding in soil system/D-boxes</li> <li>Homeowner testimony (See Comments/Explanation)</li> <li>"Black soil" above soil dispersal system</li> </ul>
System cause sewage backup into dwelling or establishment.	☐ Yes ☐ No	System requires "emergency" pumping Performed dye test
Any "yes" answer above indicate an Imminent Threat to Public Hea		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
Comments/Explanation:  Tank Integrity – Compliance col	mponent #2 of 5	
Compliance criteria:		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.		<ul><li>Examined Tank Integrity Form (Attach)</li><li>Observed liquid level below operating depth</li></ul>
Sewage tank(s) leak below their designed operating depth.	☐ Yes ☐ No	Examined empty (pumped) tanks(s)  Probed outside tank(s) for "black soil"
If yes, which sewage tank(s) leaks:  Any "yes" answer above indic system is Failing to Protect G		☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)
Comments/Explanation:  Other Compliance Condition	ns – Compliance com	ponent #3 of 5
Maintenance hole covers are damag		
b. Other issues (electrical hazards, etc.) to *System is an imminent threat to p	immediately and advers	sely impact public health or safety. 🔲 Yes* 🔲 No 🔲 Unknow
Explain:		ε.
c. System is non-protective of ground v *System is failing to protect groun		as determined by inspector ☐ Yes* ☐ No
Explain:		

perty address;				Inspector initials/Date:
Soil Separation - Compliance compon	nent #4 o	of 5		
Date of installation: Shoreland/Wellhead protection/Food Beverage Lodging?	☐ Unkn		S	erification method(s): oil observation does not expire. Previous soil bservations by two independent parties are sufficie
Compliance criteria:			u	nless site conditions have been altered or local equirements differ.
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:  Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.	☐ Yes	∏ No		Conducted soil observation(s) (Attach boring logs) Two previous verifications (Attach boring logs) Not applicable (Holding tank(s), no drainfield) Unable to verify (See Comments/Explanation) 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	<i>C</i>	Comments/Explanation:
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*				
"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required)	Yes	□No	<u>A.</u>	Bottom of distribution media
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.			C.	Periodically saturated soil/bedrock  System separation
Any "no" answer above indicates the Failing to Protect Groundwater.	he syste	em is	*1	Required compliance separation*  May be reduced up to 15 percent if allowed by Local Drainance.
Operating Permit and Nitrogen B				
s the system operated under an Operating Perr s the system required to employ a Nitrogen BM		☐ Yes		
BMP=Best Management Practice(s) specific		☐ Yes		If "yes", B below is required
f the answer to both questions is "no",				need to be completed.
Commission of a self-self-				
Compliance criteria				
a. Operating Permit number:  Have the Operating Permit requirements be	een met?	?		☐ Yes ☐ No

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, 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.

Page 3 of 3

ZOMING PERMIN	APPLICATION ,	
FULL NAME Donald Cunny har	161-110-1101	DATE 5-82-3 APPROVE DENY
BIRTHDATE & DL # 8-17-62 MN91#C-552-14	19.061-104-3	PERMIT# 30409
MAIL ADDRESS 33550 Elmo are Stacy	MN 55079	PARCEL# 34-1-082400
911 ADDRESS SCAT TO G1S	<del></del>	PARCEL# <u>57 1-052,000</u> RECEIPT# 51,037
TOWNSHIP WOONER		CONFORMING SEPTIC
LEGAL DESCRIPTION WT 7BIK 3 : Und 1/4UD IN		
SECTION 26 TOWNSHIP 43 RANG	geraven	YES P# NO (NEW
(circle) RESIDENTIAL COMMERCIAL ACCESSORY BUILDING CONTRACTOR AND LICENSE NUMBER:	NEW BUILDING	ALTERATION
SIZE OF ALL BUILDINGS COVERED BY THIS APPLICATION 28	×22 Nex Go	arage
	XZ8 TIECK	,
	×24 1/01 ×28 0/101	on to whin 12 stre
will Remain a	Cound Septic	Sistem
COMMENTS: Z BORM -	it-grade	
		<u> </u>
- Orsian. Wayne Andres	en	
DATA FOR SEWER CONSTRUCTION: INSTALLER RYCKE RU	ile	_ #8EDROOMS/GPD_2/200
<del></del> -	ELOWTHIS LINE -	
	CLOW CHIO CHIE	
ZONING DISTRICT & FLOOD PLAIN	STRUCTURE SETBACK	DISTANCE REQUIREMENTS
all	(Measure from	eaves or overhang)
ZONING DISTRICT S/L a:	(Measure from OHW TO LAKE/RIVER/STRI	eaves or overhang) EAM 1001
ZONING DISTRICT S/L PIDE  LAKE/STREAM/RIVER NAME PIDE	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK	eaves or overhang)  EAM 100
ZONING DISTRICT S/L a:	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V	eaves or overhang)  EAM 100
ZONING DISTRICT S/L LAKE/STREAM/RIVER NAME PINE LAKE/RIVER ID NUMBER 1 - OOG	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK	eaves or overhang)  EAM 100
ZONING DISTRICT	OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF	eaves or overhang)  EAM 100  V 30 TWISTON SO COUNTY  ACK DISTANCES
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 301 SEPTIC SYSTEM SETBACK SETBACK TO STRUCTURES	eaves or overhang)  EAM 100  10  20 Turshp 50 Countr  ACK DISTANCES  10 100 K ZO' CRAFL
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30  SEPTIC SYSTEM SETBA SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15	eaves or overhang)  EAM 100  10  20 turshp 50 countr  CK DISTANCES  10 tork 20 dented
ZONING DISTRICT	OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30  SEPTIC SYSTEM SETBA SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK	eaves or overhang)  EAM 100  10  20 turshp 50 Countr  CK DISTANCES 10 100K ZO' CRAFE  10
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30  SEPTIC SYSTEM SETBA SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15	eaves or overhang)  EAM 100  10  20 turshp 50 Countr  CK DISTANCES 10 100K ZO' CRAFE  10
ZONING DISTRICT	CMeasure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30 SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-W	eaves or overhang)  EAM 100  10  20 turshp 50 Countr  CK DISTANCES 10 100K ZO' CRAFE  10
ZONING DISTRICT	CMeasure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30 SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-W	eaves or overhang)  EAM 100  10  20 Turshp 50 Countr  ACK DISTANCES  10 10 10 10 10 10 10 10 10 10 10 10 10 1
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-W	EAM 100  EAM 100  EAM 100  CK DISTANCES  101  101  CARBAGE DISP/HOT JUB
ZONING DISTRICT	(Megsure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30 SEPTIC SYSTEM SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-W	eaves or overhang)  EAM 100  10  20 Turshp 50 Countr  ACK DISTANCES  10 10 10 10 10 10 10 10 10 10 10 10 10 1
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO STRUCTURES OHW TO LAKE/RIVER 75 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V	GARBAGE DISP/HOT JUB
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30  SEPTIC SYSTEM SETBA SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V  A GOO INCHES ROCK WITH 9 INCHES ROCK BELO	GARBAGE DISP/HOT TUB YES NO
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30  SEPTIC SYSTEM SETBA SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V  A GOO INCHES ROCK WITH 9 INCHES ROCK BELO	GARBAGE DISP/HOT TUB  SELOW PIPE
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30  SEPTIC SYSTEM SETBA SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V  A GOO INCHES ROCK WITH 9 INCHES ROCK BELO	GARBAGE DISP/HOT TUB YES NO
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30  SEPTIC SYSTEM SETBA SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V  A GOO INCHES ROCK WITH 9 INCHES ROCK BELO	GARBAGE DISP/HOT TUB YES NO
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30  SEPTIC SYSTEM SETBA SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V  A GOO INCHES ROCK WITH 9 INCHES ROCK BELO	GARBAGE DISP/HOT TUB YES NO
ZONING DISTRICT	(Measure from OHW TO LAKE/RIVER/STRI PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V SETBACK TO BLUFF 30  SEPTIC SYSTEM SETBA SETBACK TO STRUCTURES OHW TO LAKE/RIVER 15 PROPERTY LINE SETBACK SETBACK TO ROAD R-O-V  A GOO INCHES ROCK WITH 9 INCHES ROCK BELO	GARBAGE DISP/HOT TUB YES NO

EXPIRES IN ONE YEAR

FIELD EV	ALUATION SHEET	5-20-03
NAME DON CUNNINGHON PARCEL# 34-1-08/1800	TWP 43	# <u>30409</u> section 24
CHECK THE FOLLOWING PRIOR TO INS	PECTION	,
	NAME OF SITE	EVALUATOR
	NAME OF DESI	IGNER
	NAME OF INST	ALLER
LOT OF RECORD BEFORE 1-2	21-92 (SL) IR 1-10-95 (N	ISLA IE NO ALT SPTE?
SITE PLAN WITH SETBACK D		
ARE ISTS SITES PROTECTED		
DESIGN PERC TESTS		
NUMBER OF BEDROOMS (INC		•
CROSS SECTION SHEET		TRENCH DESIGN SHEET
MOUND DESIGN SHEET		OTHER OR PERFORM.
PRESSURE DISTRIBUTION SH	ŒET	PUMP CALC. TEST
WATER USE CALCULATIONS		-
GARBAGE DISPOSAL	нот т	
		PRIVATE SEE DEED/PLAT
NATURAL LANDSCAPI	E PROTECTION PLAN	
070 LYCTUS		
STAKING: BUILDINGS DRA	INFIELD, BO	RINGS, WELL
BUILDING SETBACKS: ROAD, SI	DE, REAR	, BLUFF
LAKE/RIVERCOMPLETE DURING SITE EVALUATION		t .
		ADVOC COLLEGES
BUILDINGS STAKEDDRAINFIELD WELL STAKED	STAKEDBUR	angs staked
WELL STAKED		
SETBACKS (MEASURE DISTANCE)		
DETERMINED (NEW DIGITALICE)	DRAINFIELD	HOUSE
FLOOD PLAIN	YES/NO)	YESON
WETLANDS	YES/NO	YES/NO)
LAKE, RIVER, PROTECTED WATERS	2/0/	5772
ROAD RIGHT OF WAY	301	7.50'
BLUFF	Alo	NA.
SIDE LOT LINE	107	1/1
REAR LOT LINE	.0%_	OK-
HOUSE OR OTHER STRUCTURE	DOUTUR ZODE	ruf
WELL	NONE	NONE
EASEMENTS		
NEIGHBORING WELL (S) TO ISTS	(2)	(4)
DRAINFIELD AREA DISTURBED		
CONFORMING SEPTIC SYSTEM:	YES /	NO If no, list reasons below.
COMMENTS OR PROBEMS (drainage, swale		
APPROVED: YES OR NO		
1. V.O.		~ 33 13
INSPECTORS NAME 11/1000	DATE <	5-22-03 # PICTURES

SOIL BORING LOGS AND SKETCH PLAN ON REVERSE SIDE

# Page 2 of 2 \*\*\* COMPLETE BOTH SIDES \*\*\*

	C. Directions to your Property (required):  From a major intersection:
	35000 47 to co Rd 18 E AST
	go must pine lake 1st Rd on Rt Follow
	P. Marian P. J. Marian P. Ma
$\triangle$	wad sline loke to y an wad go left to
$\mathcal{V}_{i}$	let Follow Arone to cake the 1st Rol on F
0	Down to mile Tost port Pretable Hover wish Gage yellow
(	D. NATURAL LANDSCAPE PROTECTION PLAN:  Complete this section only if you were directed to in Section A OR if you are working near a lake or stream.
	1. Description of proposed construction: 28 x 28 Applifon 2 Story 22x28
	44×10 feek on But 10×28 peek on Boell
١	2. Existing vegetative cover (e.g., forested, grass, shrub, lawn, etc.)?
	3 Setback from the Ordinary High Water Level (OHW) for proposed construction? 100 84
	4. How much excavation or fill work is being done inside the Shore Impact Zone (SIZ)?     OTUE (If excavation or fill work greater than 10 cu yds is being done, supply copy of Site review from SWCD*) (The SIZ: Mississippi River & NE Lakes = 75 feet, RD & GD lakes = 50 feet, other waters-see ordinance)
	5. How much excavation or fill work is being done outside the Shore Impact Zone (SIZ)? 49 V/65 (If excavation or fill work greater than 50 cu yds is being done, supply copy of Site review from SWCD)
	6. What percent slope of the land currently exists on the construction site? 2-3% (If the percent slope is greater than 20%, supply copy of Site review from SWCD)
	7. How much clearing of trees and shrubs will be done inside the Shore Impact Zone (SIZ)? Now (If vegetation will be cleared in the SIZ, supply copy of Site review from SWCD)
	8. How will erosion be controlled during construction? NO Servosión
	9. What will be done after construction to control exosion? Plant Gross shoulds
	Centler 7
	I have read the above and I understand the Natural Landscape Protection Plan as prepared. I hereby agree to implement this plan as part of the Land Use Permit.
	x Palle 5'2003 \1111 5-200
	Landowner Signature Date Zoning Official Da

\*The Aitkin County Soil and Water Conservation District (SWCD)
130 Southgate Center, Aitkin MN 56431 - Telephone (218) 927-6565 or <a href="mailto:swcd@mlecmn.net">swcd@mlecmn.net</a>

## SUPPLEMENTAL DATA FOR LAND USE PERMITS.

Page 1 of 2

	*** COMPLETE BOTH SIDES ***			
A.	PLANNING CHECKLIST (required):	VEC	NO	200
1.	Are you aware of setback requirements and will your project meet them? Note: Setback distances are taken from	YES . 🔀		
2.	Have you taken in consideration locations for future buildings, septic systems, decks, driveways, etc?	×		
3.	Are there any lowlands or wetlands on or near the site project?	. 🗌	×	
4.	Is there a steep slope or bluff on or near the site?(If yes, complete Section D)	. 🗆	X	
5.	Will the project involve the clearing of trees or shrubs within the Shore Impact Zone of a lake or river? (If yes, complete Section D)		X	
6.	Will the project involve grading, filling or landscaping within the shoreland district of a lake or river? (If yes, complete Section D)		X	
If it abo	Is your property in a floodplain?			
<u>В</u> .	PRE-EVALUATION INSPECTION REQUEST (requi	red):		
	ining and staking the property lines, road right-of-ways, septic sites, and wells are the perty owner. In some cases, a registered survey may be required to verify setbacks be			
CO	L PROPOSED DEVELOPMENT REQUESTS MUST BE CLEARLY STAKED RNERS IF APPLICABLE, IF STAKES ARE NOT PRESENT OR VISIBLE IT DITIONAL FEES OR A DELAY IN THE PERMIT PROCESS.			
info	undersigned hereby makes application for a pre-evaluation permit inspection, agreein trmation and delineation of property lines, well location, road setbacks, and developm perly marked in accordance with the standards and requirements of the Aitkin County	ent come	rs have	
Tel	ephone Number between the hours of 8:00 A.M. and 4:00 P.M. $763-78$	<u>0-3</u>	<u>(42</u>	_
Lar	ndowner: Drate Chningham Date:	5-20	<u> ر</u> ٥ - ر	_
Ade	dress: 33550 Elmo Aug			_
	Steey MINNESTA			
				<del>-</del> ,
LA	NDOWNER SIGNATURE: X			_

If you have any questions please contact the Planning and Zoning office at (218) 927-7342
Ordinances and Publications are available FREE online at: <a href="https://www.co.aitkin.mn.us">www.co.aitkin.mn.us</a>

1110thlono



### Anderson Connections

Septic Design & Inspection

Invoice: 2418 October 21, 2002 MAY 16,242

Donald Cunningham 33550 Elmo Ave Stacy, MN 55079

Dear Mr. Cunningham:

I have completed the Septic design for your cabin/home site located in part of the Northwest Quarter of the Southeast Quarter, Section 26, Wagner Township, Aitkin County. I have sized the system for a two-bedroom home with two or more water-using appliances, but no garbage disposal. The soil treatment area will utilize an at-grade pressure distribution system. The septic tank will be a 1500 gallon combination tank. This will provide a 1000 gallon septic tank and a 500 gallon lift station to deliver liquid effluent to the treatment area. The pump required for this system must be able to deliver 20 gpm and provide at least 14 feet of head. This septic system is designed for the septic waste from the home. Clean water from footing drains or a sump pit must not enter this system.

Please review the flags I have placed on your property. The flags indicate the tank and soil treatment locations. I request that the property lines be verified to be more than ten feet from these flags.

Remember that homeowners are responsible for management of their septic system. Please take the time to read the "Homeowner's Manual" that I am including with your design. The manual includes many helpful hints for managing your new septic system. I thank you for your business, and I am sure you will be pleased with your new septic system.

Sincerely,

Wayne H. Anderson License # 1298

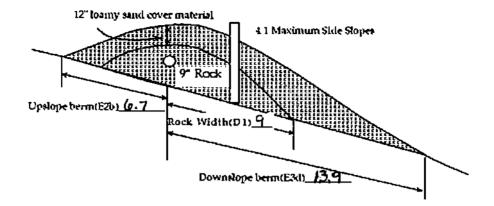
en: Homeowner's copy

Contractor's copy
Permitting agency copy

reviewed 5/20/03 KS

ATGRADE DESIGN WORKSHEET		ried Sewage Re	ovs in Got	ons per Do	*
All boxed rectangles must be entered, the rest will be calculated.	bedrooms 2 3	Closs I 300 450	Closs II 225 300	Cicas III 160 218 256	Cicss IV 60% of the values
A. Average Design Flowgpd (see figure A-1)	4 5 6 7 8	600 750 900 1050 1200	375 450 525 600 675	294 332 370 408	in the Closs I, II, or III columns.
or measured = measured amount x 1.5(safety factor) = gpd x 1.5 =	0 9	36 <u>q</u>			
B. Septic Tank Capacity C-1: Septic Tank C	Capacities tin g	Allons)			
1000 gallons (see figure C-1) Number of Bedrooms Min	omion Liquid Capacity	Liquid capacit garbage dusp	ty with I ,	aquid cap with dispo- lift insid	salde
C. Soils (refer to site evaluation)	750 1000	1125 1500 2250	1	1,500 2000	
1. Depth to restricting layer = 3 ft 7.8 or 9	1500 2000	3000		3000 4000	
2. Depth of percolation tests =ft	<b>-</b>				
3. Texture sandy loarn Percolation Rate	Impi	Grade Linear	Lordina	Rate (T T T	R)
4. Soil Sizing Factor (SSF) 1.27 ft²/gpd (see figure D-15)  5. Linear Loading Rate (LLR) 7 god/ft (see figure D-42)					
5. Linear Loading Rate (LLR) 7 gpd/ft (see figure D-42) 6. Land Slope 5 %	President Hate at 12" (MPI)	(0-13-1	Chapter		Uncer Loading Rate - LLR (ggst/l)
o. Land Glope [	France (Name o	11 Creme Send	No sacrura Layera di Jantu	···-	•
D. Rock Width		+	Carteral oct Redir Montestano	-	· ·
<ol> <li>Rock absorption width equals LLR(C5) times SSF(C4) =</li> </ol>	9) 105	Send Laterty Send Rint Serul*	Montestura Layera or Layera or	ruhar	
7 gpd/ft x1.27 $ft^2/gpd = 8.9 ft$	<u> </u>		Saturated Back	(1117)	5
E. System Size	61013	Sandy Loan	Serong for alrud No locker Conditi		7
System size     The height of the system 2 feet	ļ		Condit Condit Stranglish		<u>.</u>
Determine upslope width	(\$106E	Lown Sill Lown Sill Sindy Clay Low	No imitura	4 cymalia	•
a. Upslope multiplier based on percent land slope (see figure D-46)		Sindy Clay Lour Siny Clay Lour Clay Lour	Constitution of the second		
3.33	_ e0 iu (20)	Clay Sandy Clay Silty Clay	No legitive:	d Charles	1
<ul> <li>b. Upslope width = upslope multiplier(E2a) times system height (E1)</li> </ul>	Stower than t		Condu		1
3.33 ft x 2 ft = $6.66$ ft	Condition II Whith or Try on a	racture I actus brokumo			tro-flare or hadrack (- 4)
3. Determine downslope width 5		E-d vo	um LLR- 1		
a. Downslope multiplier based on percent land slope (see figure D-46)	Factor	Soil Charact (SSP) (> 3 ±		1)	
b. Downslope width = upslope multiplier(E3a) times system height (E1)  5 ft x 2 ft = 10.0 ft		ilen Rute iperinch Se	oli Texture		ing Factor feet / gallon (aqtt/ epd)
c. Rock absorption width (D1) + 5 feet 8.9 + 5 ft 13.9 ft	faster th	andr Ge	satse sand edium sand	GES	
d. Downslope width equals the larger of 3b and 3c 13.9 ft	61 to 5*	.   h	es sind amy used	1	
System width is the sum of upslope width(E2b) plus downslope width(E3d)	15 m 15 16 m 35 25 m 33 26 m 35		ndy Joan am I loam	1.27 1.27 1.47 2.60	
6.66 ft + 13.9 ft = 20.6 ft	36.00.60	· 의 이: [왕	l ay loam ndy day iy day	2.20	·
5. The rock layer length is the flow (A) divided by the LLR(C5)	ever 6L	10 150m	ay ndy clay	120	.
300 gpd / <u>7 gpd/ft = 42.9</u> ft	1.	(han 127   <sup>St</sup>	liveray		i
6. Total length is the sum of upstope width(E2b), rock layer length(E5)	pressure pressure in trans	stems for papidle distribution or the 25% ce the t	ry penneab c secial dist Otal system	1-52(1); riteu ikop 1-	nth
and upslope width (E2b)		th >25% or the t aving 50% or in and must be us alber or person			
	. "	AM SLOPE MULTIP			****
F. Rock Volume	Lind	UTSLOP		DOMEST	LOPE
Rock Area = Length(E5) x Width(D1+ 1ft)	Stope.	berat maltiplie berat slope rat	on ter	berm multi berm skape	pliers ter
42.9 ft x ( 8.9 ft + 1ft) = 423.9 ft <sup>2</sup>		<del> </del> -			
Multiply rock area(F1) by depth of rock(1ft) and divide by 2	l l	7-22 f0	Ì	F I	
because the shape is triangular	2 3	150 157		13 15	I .
$423.9 \text{ ft}^2 \times 10 \text{ ft}^2 = 211.9 \text{ ft}^2$	{}	16		L7	is
3. Volume in cubic yards = volume in cubic feet divided by 27	5	3.23 3.23	}	10 52	
F2/ 27 = cubic yards 211.9 / 27 = $\frac{7.8}{1.9}$ yd <sup>3</sup>	7	312		5.5	•
4. Weight of rock in tons = cubic yards times 1.4	5   9	100 291		14 42	
F3 x 1.4 = tons x 1.4 = tons	10	256	- }	4.0	ب- إ
	11	2.75	ĺ	7.1 7.5	
	<del></del>				

Wayne Anderson	(signature)	1298	(license #)	_May 16, 2003(date)



Total Width(E4) 20.6	Upslope Width (E2b)  Upslope Width (E2b)  Rock Bed Width(D1) 9 Length(E5) 43  Downstope Width(E3d) 13.9
	m - 4 t

Total Length (E6) 56.2

PRESSURE DISTRIE	=:^ ^\/^===
	21   T     T
FREMINE MAIN	

VI boxed rectangles :	must be entered	, the rest will be	calculated

Select number of perforated laterals:
 1

2. Select perforation spacing = 2.5 ft

 Since perforations should not be placed closer that 1 foot to the edge of the rock layer (see diagram), subtract 2 feet from the rock layer length

43 - 2 ft = 41 frock tayer length

6-4: Maximu pertateral to				
perforation spacing (feet)	1 Inch	1.25 inch	1.5 inch	20inch
25	8	14	16	28
3.0	a	13	17	26
3.3	7	12	16	25
4.0	7	11	16	23
5.0	6	10	14	22

4 Determine the number of spaces between perforations.

Divide the length (3) by perforation spacing (2) and round down to nearest whole number.

Perforation spacing 41 ft / 2.5 ft = 16 spaces

5. Number of perforations is equal to one plus the number of perforation spaces (4).

\* Check figure E-4 to assure the number of perforations per lateral guarantees

< 10% discharge variation.

16 spaces + 1 =

17 perforations/lateral

A. Total number of perforations = perforations per lateral (5) times number of laterals (1).

17 perfs/ lat x 1 laterals = 17 perforations

B. Calculate the square footage per perforation. Should be 6-10 sqft/perf. Does not apply to at-grades.

1. Rock bed area = rock width (ft) x rock length (ft)

9 ft x 43 ft = 387 ft<sup>2</sup>

2. Square foot per perforation = Rock Bed Area / number of perfs (6)

 $387.0 \text{ ft}^2$  / 17 perfs = 22.8 ft<sup>2</sup>/perf

 Determine required flow rate by multiplying the total number of perforations(6A) by flow per perforations (see figure E-6)

17 perfs x 0.74 gpm / perfs 12.6 gpm

Q Use 1.0 fool for single-family hornes.
b Use 2.0 feet for anything also.

E-6: Perforation Discharge in apm

1/8

0.18

0.26

0.41

head

(feet)

1.0ª

2.05

5.0

perforation diameter

3/16

0.42

0.59

0,94

7/32

0.56

0.80

1.26

1/4

0.74

1.04

1.65

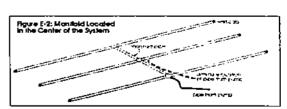
(inches)

 If laterals are connected to header pipe as shown in Figure E-1, to select minimum required lateral diameter, enter figure E-4 with perforation spacing (2) and number of perforations per lateral (5).

Select minimum diameter for perforated laterals =

1.5 inches

9. If perforated lateral system is attached to manifold pipe near the center, like Figure E-2, perforated lateral length (3) and number of perforations per lateral (5) will be approximately one half of that in step 8. Using these values, select minimum diameter for perforated lateral = inches.



Wayne Anderson (signature)

1298

(license #)

May 16, 2003

### **PUMP SELECTION PROCEDURE**

All boxed rectangles must be entered, the rest will be calculated.

4	Data-miles		
٦.	Determine	pump	capacity

- A. Gravity Distribution
- 1. Minimum required discharge is 10 gpm
- 2. Maximum suggested discharge is 45 gpm

1. A pump must be selected to deliver at least

13.1 feet of total head (2D).

with at least

For other establishments at least 10% greater than the water supply rate, but no faster than the rate at which effluent will flow out of the distribution device.

	B. Pressure Distribution - see pressure design worksheet  Selected Pump Capacity: 20 gpm	total pla length	8	R point	iment sy of disch	
2. A.	Determine head requirements:  Elevation difference between pump and point of discharge.  8 feet		alfere			
В.	Special head requirement? (See Figure - Special Head Requirements)  5 feet	Gravity	Head Required Distribution			Oft
C.	Friction loss  1. Select pipe diameter 2 in  2. Enter Figure E-9 with gpm (1A or B) and pipe diameter (C1)  Read friction loss in feet per 100 feet from Figure E-9  Friction loss= 0.73 ft/ 100 ft of pipe  3. Determine total pipe length from pump discharge to soil system discharge point.  Estimate by adding 25 percent to pipe length for fitting loss.  Equivalent pipe length times 1.25 = total pipe length  15 ft x 1.25 = 18.75 feet  4. Calculate total friction loss by multiplying friction loss (C2)  by the equivalent pipe length (C3) and divide by 100.  FL= 0.73 ft/100ft X 18.75 ft / 100 0.1 feet	E-9: Frictio	2.47 ( 3373555 5.23 6.96 ( 11.07	Plastic et minal diame 2" 0.73 1755 2.06 2.04	Pipe fer 3 0.11 0.169 0.23 0.30 0.48	<u>5ft</u>
D.	Total head requirement is the sum of elevation difference (A), special head requirements (B), and total friction loss (C4).  8 ft + 5 ft + 0.1 ft  Total Head:	60 65 70		3.99 426 5.60 6.48 7.44	0.58 0.82 0.95 1.09	
3.	Pump Selection					

I hereby certify that I have	completed this work in ac	cordance with all applic	cable ordinances, rule	s and laws,	
Wayne Anderson	(signature)	1298	(license #)	May 16, 2003	

gpm (1A or B)

20

All boxed rectangles must be entered, the rest will be calculated.			Width
1. Determine area			$\downarrow$
A. Rectangle area = L x W  6			<b>Y</b>
6 ft x 3.33 ft = 19.98 ft Ler  B. Circle area = 3.14 x radius <sup>2</sup>	igth		
$3.14 \times 10^{2} \text{ft} = 0.0 \text{ ft}^{2}$			. )
C. Get area from manufacture			Radius
2. Calculate gallons per inch			
There are 7.5 gallons per cubic foot of volume, therefore multiply the area (1A, B or C)			
times the conversion factor and divide by 12 inches per foot to calculate gallon per inch.  Surface area $\times 7.5 / 12 = 19.98 \text{ ft}^2 \times 7.5 / 12 \text{ inches}$ = 12.4875 gallon per inch		Lec	gal Tank:
			gallons or
Calculate total tank volume		100% ដ	he daily flow
Depth from bottom of inlet pipe to tank bottom     40 in		or Alteri	лаting Pumps
B. Total bank volume = depth from bottom of inlet pipe to bank bottom(3A) x gal/in(2)  = 40 in x 12.4875 gal/in = 499.5 gallons		ogo flows to Gostone p	or Day
2	Closs 300	228 1/	ssill Close/V 50 60%
4. Calculate gallons to cover pump (with 2-3 inches of water covering pump)  (Pump and block height + 2 inches) x gallon per inch	600 750	1 375 : 25	18 cime So voxes 96 mane
$( 16 + 2 in) \times 12.4875 $ gaVin = 224.8 gallons $\frac{6}{7}$	900 1050	) 525 00 600 3	02 Cloral, 70 1,ar3i
5. Calculate total pumpout volume	1200	0 675 3	DE COUTES.
A. Select pump size for 4-5 doses per day. Gallon per dose = gpd (see Figure A-1) / doses per d	ay=		
gallons B. Calculate drainback			
Determine total pipe length     15.0  ft			
Determine liquid volume of pipe, 0.17 gal/ft (see figure E-20)     Drainback quantity = 15.0 ft (5B1) x 0.17 gal/ft(5B2) 2.6 v		E-20: Volume	of Liquid in Pipe
3. Drainback quantity = 15.0 ft (5B1) x 0.17 gal/ft(5B2) 2.6 v  C. Total pump out volume = dose volume(5A) + drainback (5B3)		Pipe Diamete	er Gallons per foot
60 gallons +2.6gallons =62.6		1 1.25	0.045 0.078
6. Calculate float separation distance (using total pumpout volume)		1.5	0.11 0.17
Total pumpout volume(5C) / gal/inch(2)		2.5	0.25
82.6 gal / <u>12.4875</u> gal/in = <u>5.0</u> inch		3 4	0.38 0.66
7. Calculate volume for alarm (typically 2 - 3 inches)			
	.975	gal	
Control to the land to the control of the control o			
8. Calculate total gailons = gallons over pump(4) + gallons pumpout(5C) + gallons alarm(7)  224.8 gal + 62.6 gal + 24.975 gal = 312.3 gal			
<u> </u>		<del>jimut,</del>	3
9. Total tank depth = total gallons(8) / gallon/in(2) 312.3 gallons / 12.4875 gal/in = 25.0 মেণ্ড :		<u>anconéi</u>	3
	(i)  es	erve coposity	alam an
Recommended Calculate reserve capacity (75% of the daily flow)	rije [	\$	E Dimper
Daily flow x 0.75 = 300 x 0.75 = 225 gallons	) [] []	2003/01 30 gm	සි පිටිත්වක් සි
	<u> Pingan</u>		<u>31</u>
11. 12. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	l lov-		<del></del>
I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and	IMS		
Wayne Anderson (signature) 1298 (license #) May	16, 2003	<u>!</u>	1

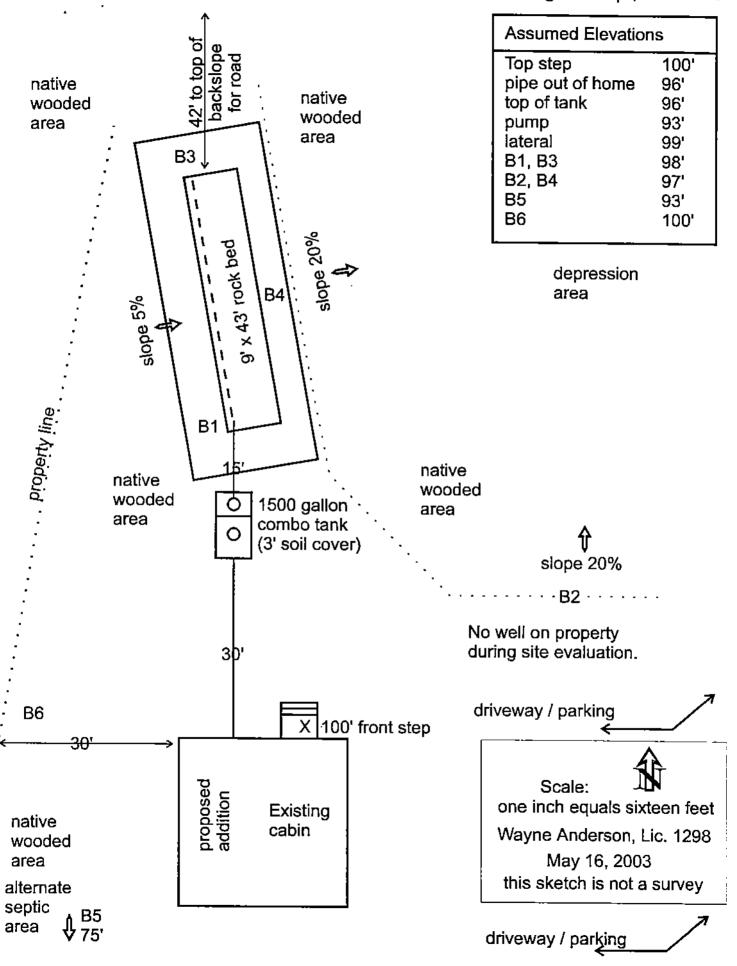
DOSING CHAMBER SIZING

#2418 Donaki Cunningham May 16, 2003

	DEPTH	DEPTH TEXTURE MATRIX	MATRIX	MOTTLEB	STRUC	STRUCTURE	CONSIBTENCE	Roors	NOTES
				CONTRAST	SHAPE G	GRADE		:	
	-9	Topsoil	7.5YR2/2		Blocky	Moderate	Friable	Yes	
BORING	38	Sand	7.5YR4/4		Granular	Weak	Loose	Yes	
<u>#</u> 1	40"	Sand	7.5YR4/4	Distinct 7.5YR5/6	Granular	Weak	Loose	Yes	
	.,\$	Topsoil	7.5YR2/2		Blocky	Moderate	Friable	Yes	
BORING	22"	Sand Loam	7.5YR4/4		Blocky	Moderate	Friable	Yes	
#	36"	Fine Sand	7.5YR4/4		Granular	Weak	Loose	Yes	
	38"	Sand	7.5YR4/4		Granular	Weak	Pose	Yes	Rocky
									unable to penetrate rock
	G	Topsoil	7.5YR2/2		Blocky	Moderate	Friable	Yes	
BORING	18"	Sand Loam	7.5YR4/4		Blocky	Moderate	Friable	Yes	
#3	36"	Sand	7.5YR4/4		Granular	Weak	Loose	Yes	Rocky
									unable to penetrate rock
	9	Topsail	7.5YR2/2		Blocky	Moderate	Friable	Yes	
BORING	28-	Ѕапд Цоаш	7.5YR4/4		Blocky	Moderate	Friable	Yes	
<b>#</b>	36	Fine Sand	7.5YR4/4		Granular	Weak	Loose	Yes	
	45*	Sand	7.5YR4/4		Granular	Weak	Loose	Yes	Rocky
									unable to penetrate rock
		Topsoil	7.5YR2/2		Blocky	Moderate	Friable	Yes	
BONING	36"	Silt Loam	7.5YR4/4		Blocky	Moderate	Friable	Yes	
<b>5</b>	44"	S. S. L.	7.5YR4/4	Distinct 7.5YR6/6	Blocky	Moderate	Friable	Yes	(sandy silt loam)
	9	Topsoil	7.5YR2/2		Blocky	Moderate	Friable	Yes	
BORING	<b>5</b> 6"	Sand	7.5YR4/4		Granular	Weak	Loose	Yes	rocky
9 #	. <b>54</b> "	Sand	7.5YR4/4		Granular	Weak	Loose	Yes	no rocks
									ended boring

# ANDERBON CONNECTIONS, LIC. #1298

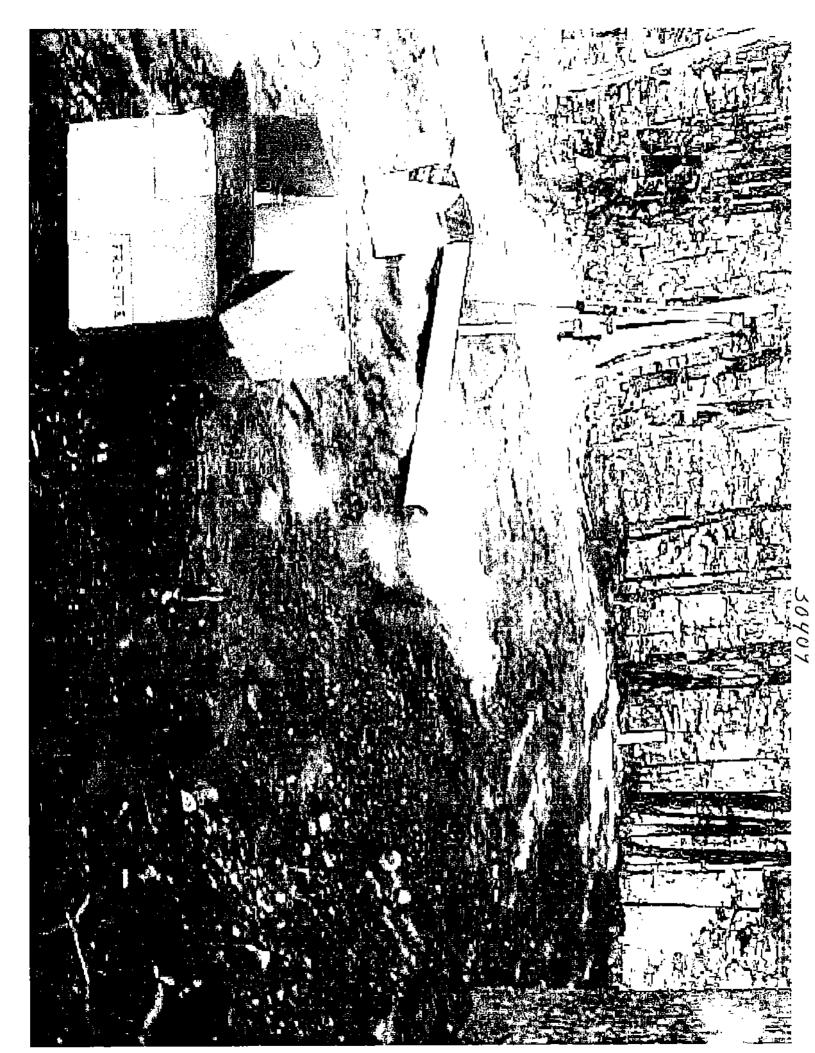
Donald Cunningham, Part of NW 1/4 of SE 1/4, Sec. 26, Wagner Twp., Pine Co.



# AITKIN COUNTY CERTIFICATE OF COMPLIANCE/NOTICE OF NONCOMPLIANCE

This certificate of compliance/notice of noncompliance has been issued this
day of 6/9/6.3 to certify compliance\noncompliance with
Aitkin County's Individual Sewage Treatment System and Wastewater Ordinance No.
1 The premises covered by this certificate are legally described as:
1+2 RIKE & Und /4/OT in owtlet A Ridge haven
Section 26 Township 43 Range 22 Lake Pine /a Re
PERMIT NO 30409 Owner Name Daniel Curning ham
Address 33550 Elmo ave, Stary, mn. 55079
Installer Name Rojer Revier
Type of System Inspected
The certificate of compliance/notice of noncompliance was based on, No _ t of the
following:
Inspection of the installation or construction as in accordance with the
above referenced permit and application design.
above reletenced permit and application design.
2) Review of as-built plans submitted in accordance with Subdivision 4.21 C.
2) Review of as-built plans submitted in accordance with subdivision 4.21 C.
Of Aitkin County's Individual Sewage Treatment System and Wastewater
Ordinance No. 1.
test and the distribution of the attended evotors in in personnellance with
If the above permitted individual sewage treatment system is in noncompliance with
Aitkin County's Individual Sewage Treatment System and Wastewater Ordinance No.
1, then the following shall serve as a Notice of Violation:
Statement of the findings of fact through inspections or
investigations:
List of specific violations of Ordinance:
3) Requirements for correction or removal of violations:
<u> </u>
4) Time schedule for compliance:
<del></del>
Failure to correct or remove the above violations will result in this matter being
turned over to the Aitkin County Attorney's Office for further legal action which
may result in revocation of licenses or registrations, fine's and/or
imprisonment.
· · · · · · · · · · · · · · · · · · ·
INDDECTOR CICNATURE IN TIME
INSPECTOR SIGNATURE for Julius
c:\wp61\terry.dir\certform.doc





# INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM AITKIN COUNTY, MINNESOTA

Township (Nag Nex Date of	Date of Inspection 6/9/0-3 Permit Number 30409
Owner Druedd Cuning ham	Parcel Number 3 4-1" 08964
Project Address Lot 2 BIK 3 + Und 1/4 10	+ and by lotin outlot A Installer Repair Rejour
City Zip Code	New Repair
	DIST. or DROP BOX & TYPE
	TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD: Trench depth Trench bottom width Trench bottom width Trench bottom level Trench spacing Drainfield rock below pipe Size of gravelless pipe Depth of backfill Absorption area: square feet Ineal feet Ineal feet Depth of sextilines for fisers gets I ank capacity The Repower & GPM 1/10 - SB Horsepower & GPM 1/10 - SB Horsepower & GPM 1/10 - SB Type of electrical hookup 1/10 st Type of electrical hookup 1/10 st Type & location of alarm Cycle counter (commercial)  Type \$\frac{1}{2} \text{ for ck}  fo
had by Grube Josi	(cari