

149

ZONING PERMIT APPLICATION

FULL NAME ROBERT ARNESEN TELE # 218-679-3575
 BIRTHDATE & DL # _____
 MAIL ADDRESS 40663 - 236th LANE
 911 ADDRESS AITKIN MN 56431
 TOWNSHIP HAZELTON
 LEGAL DESCRIPTION LOT 7 NORTH SHORE BEACH
 SECTION 25 TOWNSHIP 45 RANGE 27

OFFICE USE ONLY	
DATE	APPROVE / DENY
PERMIT# <u>311003</u>	
PARCEL# <u>11-1-107200</u>	
RECEIPT# <u>2698</u>	
CONFORMING SEPTIC	
YES P#	NO <u>NEW</u>

(circle) RESIDENTIAL COMMERCIAL ACCESSORY NEW BUILDING ALTERATION

BUILDING CONTRACTOR AND LICENSE NUMBER: _____
 SIZE OF ALL BUILDINGS COVERED BY THIS APPLICATION _____

Other/septic system

COMMENTS: SEPTIC UPDATE FOR NON-COMPLIANT SYSTEM

RECEIVED MAY 03 2004

DATA FOR SEWER CONSTRUCTION: INSTALLER AITKIN SEWER #BEDROOMS/GPD 3/450

DO NOT WRITE BELOW THIS LINE

ZONING DISTRICT & FLOOD PLAIN

ZONING DISTRICT S/1 mile lacs
 LAKE/STREAM/RIVER NAME 48-0002
 LAKE/RIVER ID NUMBER 60
 LAKE/RIVER/STREAM CLASSIF. _____
 PARCEL LOCATED IN FLOOD PLAIN? Y ___ N X
 10/100 YR FLOOD ELEVATION _____
 LOWEST FLOOR ELEVATION _____
 ELEV. CERTIFICATE REQUIRED Y ___ N ___
 BEFORE CONSTRUCTION Y ___ N ___
 AFTER CONSTRUCTION Y ___ N ___

STRUCTURE SETBACK DISTANCE REQUIREMENTS

(Measure from eaves or overhang)
 OHW TO LAKE/RIVER/STREAM 75'
 PROPERTY LINE SETBACK 10'
 SETBACK TO ROAD R-O-W 30' top 40'
 SETBACK TO BLUFF 30'

SEPTIC SYSTEM SETBACK DISTANCES

SETBACK TO STRUCTURES 10' tank 20' DF
 OHW TO LAKE/RIVER 75'
 PROPERTY LINE SETBACK 10'
 SETBACK TO ROAD R-O-W 10'

****ATTACH COPY OF ELEVATION CERTIFICATES****

SOIL BORINGS 2 SEPTIC DESIGN Other 3BDR GARBAGE DISP/HOT TUB YES ___ NO X
 PERK RATES _____ DEPTH TO RESTRICTING LAYER _____
 MIN.SIZE SEPTIC TANK _____ MIN.SIZE PUMP TANK _____
 DRAINFIELD: MINIMUM SQ.FT _____ WITH _____ INCHES ROCK BELOW PIPE
 MOUND: MINIMUM ROCK BED SQ.FT _____ WITH 9 INCHES ROCK BELOW PIPE
 MIN.UPSLOPE SAND WIDTH _____ MIN.DOWNSLOPE SAND WIDTH _____ END SAND WIDTHS _____
 RECOMMENDATIONS: _____

X Eric Larson
 SIGNATURE APPLICANT/AGENT
ERIC LARSON

\$ 300.00
 FEE

Missy
 RECEIVED BY

5/4/04
 DATE

EXPIRES IN ONE YEAR

Aitkin County Zoning, Courthouse — AITKIN, MINNESOTA 56431 — Telephone 218/927-7342

RECEIVED MAY 13 2004

AITKIN COUNTY ENVIRONMENTAL SERVICES

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

OPERATING PERMIT #: 149

FEE: \$50

PERMITTEE: Robert Arneson

PHONE: (218) 678-3575

ADDRESS: 40663 - 236th Lane
Aitkin, MN 56431-

ZONING PERMIT # 31603

PARCEL #: 11-1-107200

ISSUE DATE: 5/ 4/04

RENEW DATE: 12/31/05

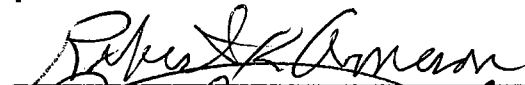
LEGALDESCRIPTION: Lot 7, North Shore Beach

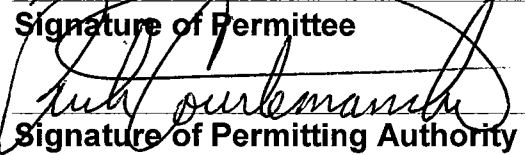
Aitkin County Environmental Services authorizes the Permittee to construct, install and operate a wastewater treatment and dispersal system located on the above described property in accordance with the requirements of this permit.

This permit is effective on the issuance date identified above.

This permit and the authorization to treat and disperse from the above system shall expire on the above expiration date. The Permittee is not authorized to discharge after the date of expiration. The Permittee shall submit such information and forms as required by Aitkin County Environmental Services no later than thirty (30) days prior to the expiration date. When the required information is submitted and approved by Aitkin County Environmental Services, the permit may be renewed. This permit is not transferable from owner to owner.

I hereby certify with my signature as the permittee that I understand the provisions of this permit including the maintenance and monitoring requirements. I agree to indemnify and hold Aitkin County harmless from all loss, damages, costs and charges that may be incurred by use of this system and if I fail to comply with the provisions of this Operating Permit. If I sell this property during the life of the permit, I will inform the new owner(s) of the permit requirements and the need to renew the permit.



Signature of Permittee


Signature of Permitting Authority

05/10/04
Date
5-13-04
Date

If You have any questions regarding this permit, including the specific permit requirements, permit reporting or permit compliance status, please contact Aitkin County Environmental Services at 218-927-7342.

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

This ISTS is a shallow pressure bed built in part of the existing drainfield. A guest cabin on site will have effluent redirected to the existing septic tank for the home. This existing tank will have a screened effluent pump installed to time dose into a 500 gallon per day Multi-Flo Aerobic treatment plant. Effluent will gravity flow from the Multi-Flo to a new 630 gallon pump tank. From there it will dose to the pressure bed. Reduction in separation, and thereby drainfield height allows this system to fit on this lot. No bedrooms =3, Flow 450 gal/day, Hydro loading=0.6 gpd/sqft, Cost \$10,100, Operation \$10/mo.

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this permits expiration date, the Permittee is authorized to discharge from the wastewater treatment unit to subsurface dispersal. No surface discharge is permitted. The following parameters must be monitored and the results must be found within the compliance limits.

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
Fecal Coliform	<1,000 cfu/100ml	Aerobic Tank Effluent	EVERY 6 MONTHS	Grab	ANNUALLY
Flow	450 gal/day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Aerobic Tank Function	Aerobic Tank	EVERY 6 MONTHS
Flow	Water Meter	MONTHLY
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL
Vegetative Cover	Dispersal System	ANNUAL

D. MONITORING AND REPORTING REQUIREMENTS:

Monitoring results obtained during each calendar year shall be submitted no later than December 31st of that year to:

Aitkin County Environmental Services
209 2nd Street NW
Aitkin, MN 56431

The monitoring reports shall be signed by the Permittee. Copies are to be retained by the Permittee.

The Permittee shall notify Aitkin County Environmental Services within thirty (30) days when monitoring results do not meet the monitoring plan requirements of this permit.

Monitoring plans may be modified as necessary and reapproved by Aitkin County Environmental Services.

Sampling and laboratory testing procedures shall be performed in accordance with Standard Methods and the testing shall be performed by a Minnesota Department of Health approved laboratory. All sampling and testing costs shall be the responsibility of the Permittee.

Monitoring will be done by Eric Larson

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate or lower water usage 2) Waste strength, if fecals exceed limit, add disinfection. If BOD = TSS, or FOG exceed limit reduce effluent strength. 3) If in the event that this system should fail and if there is no other ISTS option available, then Holding Tanks must be installed, to be pumped by a licensed Pumper with a contract.

F. SPECIAL REQUIREMENTS:

*** A WATER METER OR OTHER APPROVED DEVICE MUST BE INSTALLED AND READ ON A MONTHLY BASIS ***

DSPPRCL1

Display Parcel Description

5/04/04 10:56:59

Notes: No

Parcel number/Tax year: 11-1-107200
Owner(s): 542
ARNESON, ROBT K & JUDITH
40663 236TH LANE
AITKIN MN 56431

2005 Reference parcel: 00211019107200
Parcel type : RE Hold tax stmt:
Com district: 2 Misc1/2: 7-25-96
Escrow agent: 163 WELLS FEDERAL BANK
Mortgage hld:
UTA: Twp/City School AMBU **** *
011 0001 00 00 00 00

Taxpayer: 542 FALCO: 1 F.O.
ARNESON, ROBT K & JUDITH
40663 236TH LANE
AITKIN MN 56431

TIF district: 000 000
Lake#/name : 48-0002 MILLE LACS
Property adr: 40663 236th Ln
AITKIN

Alternate taxpayer:

Emergency# : 56431 -
Twp/City Plt: HAZELTON TWP 19
Sec/twp/rge : 25 45.0 27 Acres:
Plat: NORTH SHORE BEACH
Description: Lot/Block . :

LOT 7

Press Enter to continue or enter new parcel/tax year. 11-1-107200 2005
F1=Full desc F2=Trans hist F3=Exit F6=Prcl hist F7=Backward F9=Escrow hist
F12=Cancel F14=Phy Addr F17=Dsply Note

harmony equipment

6549 Keystone Road
Milaca, MN 56353

Phone: 320-983-2447 888-983-2447
Fax 320-983-2151

INDIVIDUAL SEWAGE SYSTEM DESIGN SUMMARY

Property Owner: Robert & Judy Arneson Phone: 218-678-3575

Address: 40663 - 236th Lane Township: Hazelton

City: Aitkin Zip: 56431 County: Aitkin

DESIGN USAGE

Single Family Home x Other _____

Number of Potential Bedrooms 3

Garbage Disposal no

Sewage Lift Pump no

SITE CHARACTERISTICS

Soil type fine sandy loam

Soil Sizing Factor 1.67

Depth to restrictive layer 27" 2.25' south end

PUMP INFORMATION

Pump GPM & TDH 25&5.1 into MF / 42&10.5 to bed

Cycles per day 48 into MF / 5 into bed

Gallons per cycle 9.5 to MF / 92.6 to bed

Perforation size & spacing 7/32" 2 1/2'

Number, spacing, & diameter of laterals 3 40" 2"

Forcemain Size 2"

CAPACITIES

Daily Water Use 450 Est x Calc _____

Septic Tank Capacity 1350 est

Pump Tank Capacity 630

MOUND SYSTEM

Dimension of Rock Base _____

Depth of Rock Below Pipe _____

Dimensions of Mound _____

% Slope of Soil Under Mound _____

Upslope Dike Width _____

Downslope Dike Width _____

Sideslope Dike Width _____

BED SYSTEM

Type of Bed pressurized

Maximum Depth of Bed 3" N end, 15" S end

Square Feet of Bed Required 750

Square Feet of Bed Proposed 750

Lineal Feet of Bed Proposed 62.5

APPROVAL

By  Date 3-25-04

Eric Larson License #1767

See additional information sheet if checked



reviewed @ 5-4-04

**Septic Design Additional Information
Multi-Flo with Pressure Bed Distribution
Overview of Installation**

Robert & Judy Arneson

This ISTS is to replace a non-compliant drainfield. A home and lightly used guest cabin are on the lot. Sewage from the guest cabin will be directed to the septic tank for the home. That tank will be equipped with a screened pump to time dose into a 500 gallon per day Multi-Flo Aerobic Treatment Plant. The dose pump will be set approximately 8" above the tank floor to assure pumping from the clear zone. Effluent will flow by gravity from the Multi-Flo into a 630 gallon pump tank. It will dose from there into a 750 square foot pressurized bed. The bed will be constructed in part over the existing drainfield. System designer will verify condition of the existing drainfield at time of construction and may require a digout if it is severely clogged with soil or biomat. The bed will be installed very shallow on the north end and run deeper at the south end due to existing slope. Overfill as necessary to protect against freezing and provide proper grading.

The guest cabin tanks will have additional cover soil and may need to be outfitted with appropriate risers and lids.

Additional Notes

Homeowner to verify all property lines.

Elevations are referenced to Bench Mark on concrete air conditioner pad east of home.

Installer to verify all elevations, dimensions, and ensure proper fall to pipes.

Trash trap dose pump shall be screened from potential solids with Orenco Effluent Screen ES 18 40 or similar.

Establish turf to prevent erosion and freezing.

Tanks are to be pumped through maintenance covers when serviced. Do not pump through inspection pipes.

Property Owners are responsible for recording water meter readings on a monthly or quarterly basis.

Property Owners accept the responsibility of all costs involved for servicing, monitoring, maintenance and mitigation of this system.

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

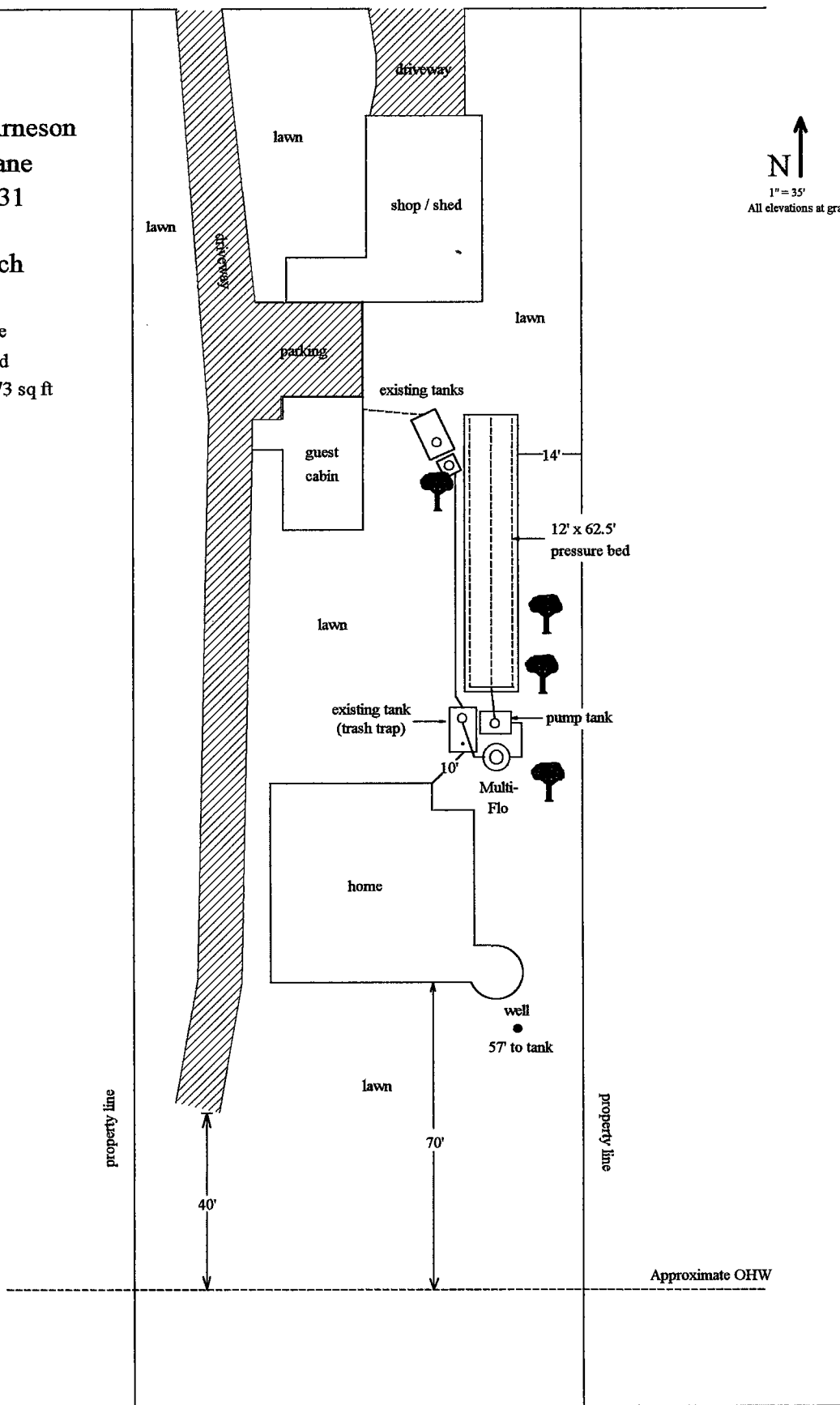
236th Lane

Robert & Judy Arneson
40663 - 236th Lane
Aitkin, MN 56431

Lot layout sketch

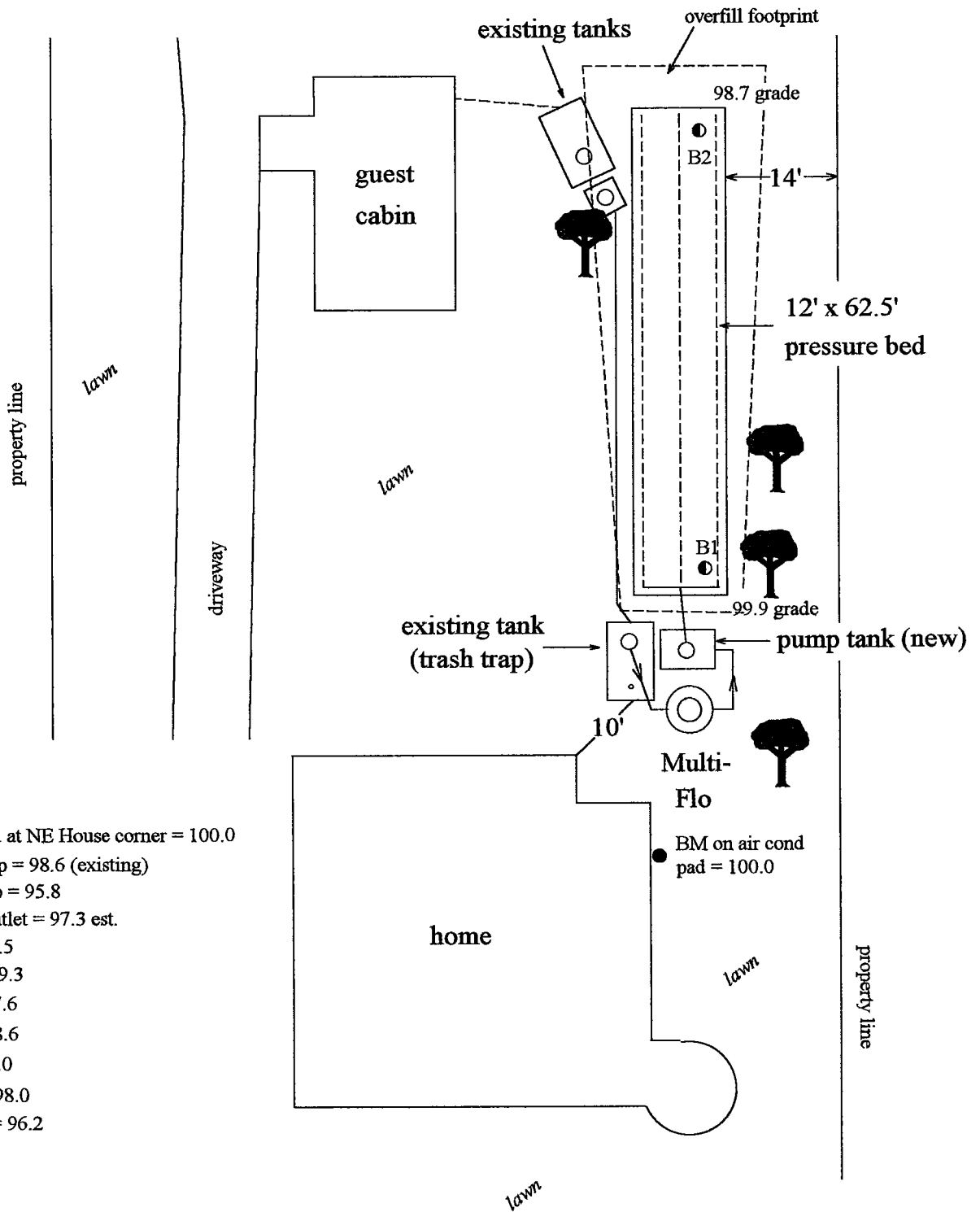
Lot Dimensions:
101' wide at the lake
102' wide at the road
by 315' deep = 31973 sq ft

N ↑
1" = 35'
All elevations at grade



Lake Mille Lacs

Robert & Judy Arneson
 40663 - 236th Lane
 Aitkin, MN 56431



Elevations:

- BM on air cond. pad at NE House corner = 100.0
- liquid level trash trap = 98.6 (existing)
- trash trap dose pump = 95.8
- guest cabin pump outlet = 97.3 est.
- Multi-Flo inlet = 99.5
- Multi-Flo outlet = 99.3
- restrictive layer = 97.6
- bottom rockbed = 98.6
- bottom laterals = 99.0
- pump tank outlet = 98.0
- dose pump to field = 96.2

PUMP SELECTION PROCEDURE

DOSE INTO MULTI-FLO

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

1. Determine pump capacity:

A. Gravity Distribution

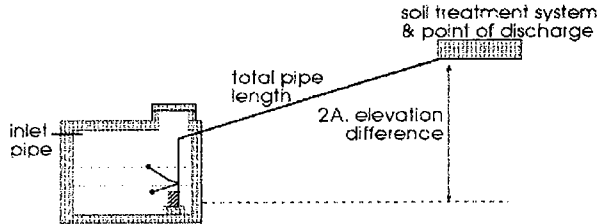
1. Minimum required discharge is 10 gpm

2. Maximum suggested discharge is 45 gpm

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: gpm



2. Determine head requirements:

A. Elevation difference between pump and point of discharge.

feet

B. Special head requirement? (See Figure - Special Head Requirements)

feet

Special Head Requirements	
Gravity Distribution	0ft
Pressure Distribution	5ft

C. Friction loss

1. Select pipe diameter 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 = ft/100 ft of pipe

flow rate gpm	nominal pipe diameter		
	1.5"	2"	3"
20	2.47	0.73	0.11
25	3.73	1.11	0.16
30	5.23	1.55	0.23
35	6.96	2.06	0.30
40	8.91	2.64	0.39
45	11.07	3.28	0.48
50	13.46	3.99	0.58
55		4.76	0.70
60		5.60	0.82
65		6.48	0.95
70		7.44	1.09

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

ft x 1.25 = feet

4. Calculate total friction loss by multiplying friction loss (C2)

by the equivalent pipe length (C3) and divide by 100.

FL = ft/100ft X ft / 100 = feet

D. Total head requirement is the sum of elevation difference (A), special head requirements (B), and total friction loss (C4).

ft + ft + ft

Total Head: feet

3. Pump Selection

1. A pump must be selected to deliver at least gpm (1A or B) with at least feet of total head (2D).

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

 (signature)

(license #)

(date)

PRETREATMENT WORK SHEET

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

number of bedrooms	Class I	Class II	Class III	Class IV
2	300	225	180	60%
3	450	300	218	of the
4	600	375	256	values
5	750	450	294	in the
6	900	525	332	Class I,
7	1050	600	370	II, or III
8	1200	675	408	columns.

1. FLOW

- A. Estimated 450 gpd (see figure A-1)
 measured x 1.5(safety factor) = 0 gpd
- B. SEPTIC TANK CAPACITY 1350 gallons (see figure C-1)

2. SOILS (Site evaluation data)

- C. Depth to restricting layer = 1.3 feet
- D. Texture fine sand Percolation rate MPI
- E. SSF 1.67 ft²/gpd (see downsizing or < 3ft figure)
- F. Land Slope 1 %

3. Pressure Distribution Trench Bottom Area

- H. For trenches with 6" of rock below the pipe, Area = Flow (1A) divided by SSF (2E) =
 $\frac{450 \text{ gpd}}{1.67 \text{ ft}^2/\text{gpd}} = 751.5 \text{ ft}^2$
- I. For trenches with 12" of rock below the pipe, Area = Flow (1A) divided by SSF (2E) x 0.8
 $\frac{450 \text{ gpd}}{1.67 \text{ ft}^2/\text{gpd}} \times 0.8 = \text{ } \text{ft}^2$

4. ORGANIC LOADING

- J. 1. Organic loading = flow (A) x estimated BOD in mg/L leaving the pretreatment unit x 8.35 / 1,000,000
 $\frac{450 \text{ gpd} \times 5 \text{ mg/L} \times 8.35}{1,000,000} = 0.018788 \text{ lbs BOD}$
2. System loading = organic loading (J1) / area (H or I)
 $\frac{0.0187875 \text{ lbs BOD}}{750.0 \text{ ft}^2} = 3E-05$
3. Check system loading rate on chart. Should be less than value.

5. ROCK VOLUME

- K. Rock depth below distribution pipe plus 0.5 foot times bottom area:
 = (Rock depth + 0.5 foot) x Area (H, I, J, K, L)
 $(0.5 \text{ ft} + 0.5 \text{ ft}) \times 750.0 \text{ ft}^2 = 750 \text{ ft}^3$
- L. Volume in cubic yards = volume in cubic feet divided by 27
 $750 / 27 = \text{cubic yards} = 28 \text{ yd}^3$
- M. Weight of rock in tons = cubic yards times 1.4
 $28 \times 1.4 = 39 \text{ tons}$

6. SYSTEM LENGTH

- N. Select width = 12 ft
- O. Divide bottom area by width: (H, I) divided by N = lineal feet
 $\frac{750.0 \text{ ft}^2}{12 \text{ ft}} = 63 \text{ lineal feet}$

7. LAYOUT

- Select an appropriate scale; one inch = 20 feet
- Show pertinent property boundaries, rights-of-way, easements.
- Show location of house, garage, driveway, and all other improvements, existing or proposed.
- Show location and layout of sewage treatment system, well and dimensions of all elevations, setbacks and separation distances.

8. SYSTEM LLR

- P. Draw a line downhill though soil treatment system drawn in layout.
 How many trenches does it cross? Add their widths together.
 width 1 + width 2 + width 3 +
 $12 \text{ ft} + \text{ } \text{ft} + \text{ } \text{ft} + \text{ } \text{ft} = 12 \text{ ft}$
- Q. Divide total trench width (P) by SSF (F) = gallons per foot
 $\frac{12 \text{ ft}}{1.67 \text{ ft}^2/\text{gpd}} = 7.2 \text{ gal/ft (Should be <12 gallons per foot)}$

Number of Bedrooms	Minimum Liquid Capacity	Liquid capacity with garbage disposal	Liquid capacity with disposable lift inside
2 or less	750	1125	1500
3 or 4	1000	1500	2000
5 or 6	1500	2250	3000
7, 8 or 9	2000	3000	4000

Downsizing Chart

Percolation Rate in Minutes per inch (MPI)	Soil Texture	Square feet per gallon per day	Organic loading pound per day per foot
Faster than 0.11	Coarse Sand	0.83	0.0020
0.1 to 0.5	Medium Sand	0.83	0.0015
0.1 to 0.5	Loamy Sand	0.83	0.0012
0.6 to 1.5	Fine Sand**	0.83	0.0011
1.6 to 3.0	Sandy Loam	0.83	0.0010
3.1 to 4.5	Loam	1.00	0.0007
4.6 to 6.0	Silt Loam	1.10	0.0006
6.1 to 12.0	Clay Loam (CL)	2.50	0.0005
Over 12.0	Silty CL Sandy CL Clay Clay	3.25	0.0003

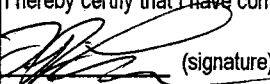
* Soil too coarse for sewage treatment. Use systems for rapidly permeable soils.
 ** Soil having 50% or more of fine sand plus very fine sand.
 *** Soil with too high a percentage of clay for installation of a standard in-ground system.

Less Than 3 feet of Separation Chart

percolation rate in minutes per inch (MPI)	Soil texture	Square feet per gallon per day	gallons per day per square foot
faster than 0.11	Coarse sand	0.83	1.20
0.1 to 0.5	Medium sand	0.83	1.20
0.1 to 0.5	fine sand**	1.67	0.90
0.6 to 1.5	sandy loam	1.67	0.75
1.6 to 3.0	loam	1.67	0.60
3.1 to 4.5	silt loam	2.00	0.50
4.6 to 6.0	Clay loam	2.50	0.45
over 6.1***	Sandy clay Silty clay Sandy clay Silty clay		

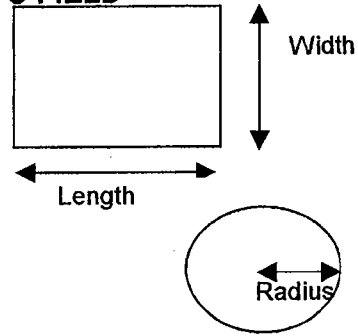
* Soil too coarse for sewage treatment. Use systems for rapidly permeable soils.
 ** Soil having 50% or more fine sand plus very fine sand.
 *** Soil with too high a percentage of clay for installation of a standard in-ground system.

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws

 (signature) 1767 (license #) 3/24/04 (date)

DOSING CHAMBER SIZING DOSE TO FIELD

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



1. Determine area

A. Rectangle area = L x W

ft x ft = 0 ft²

B. Circle area = 3.14 x radius²

3.14 x ² ft = 0.0 ft²

C. Get area from manufacture ft²

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 x 7.5 / 12 = 0 ft² x 7.5 / 12in/ft = 0 gallon per inch

23 gallons per inch Jacobson 630 gallon tank

**Legal Tank:
500 gallons or
100% the daily flow
or Alternating Pumps**

3. Calculate total tank volume

A. Depth from bottom of inlet pipe to tank bottom = in

B. Total tank volume = depth from bottom of inlet pipe to tank bottom(3A) x gal/in(2)
= 0 in x 0 gal/in = 0.0 gallons

4. Calculate gallons to cover pump (with 2-3 inches of water covering pump)

(Pump and block height + 2 inches) x gallon per inch

(14 + 2 in) x 23 gal/in = 368.0 gallons

number of bedrooms	Class I	Class II	Class III	Class IV
2	300	225	180	60%
3	450	300	218	of the
4	600	375	256	values
5	750	450	294	in the
6	900	525	332	Class I,
7	1050	600	370	II, or III
8	1200	675	408	columns.

5. Calculate total pumpout volume

A. Select pump size for 4-5 doses per day. Gallon per dose = gpd (see Figure A-1) / doses per day =

450 gpd / 5 doses/day = 90 gallons

B. Calculate drainback

1. Determine total pipe length 15.0 ft

2. Determine liquid volume of pipe, 0.17 gal/ft (see figure E-20)

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)

90 gallons + 2.6 gallons = 92.6

Pipe Diameter inches	Gallons per foot
1	0.045
1.25	0.078
1.5	0.11
2	0.17
2.5	0.25
3	0.38
4	0.66

6. Calculate float separation distance (using total pumpout volume)

Total pumpout volume(5C) / gal/inch(2)

92.6 gal / 23 gal/in = 4.0 inch

7. Calculate volume for alarm (typically 2 - 3 inches)

Alarm depth (inch) x gallon/inch(2) = 3 in x 23 gal/in = 69 gal

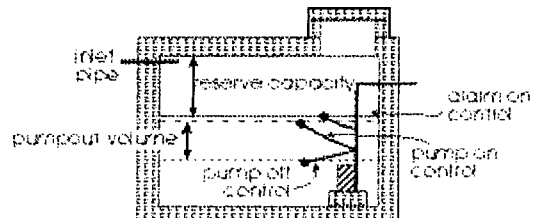
8. Calculate total gallons = gallons over pump(4) + gallons pumpout(5C) + gallons alarm(7)

368.0 gal + 92.6 gal + 69 gal = 529.6 gal

9. Total tank depth = total gallons(8) / gallon/in(2)

529.6 gallons / 23 gal/in = 23.0

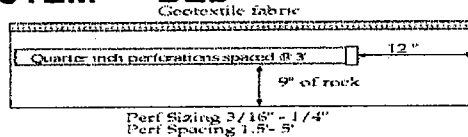
Recommended
Calculate reserve capacity (75% of the daily flow)
Daily flow x 0.75 = <u>450</u> x 0.75 = <u>337.5</u> gallons



I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws

(signature) 1767 (license #) 3/26/04 (date)

PRESSURE DISTRIBUTION SYSTEM BED



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

1. Select number of perforated laterals: 3
2. Select perforation spacing = 2.5 ft
3. Since perforations should not be placed closer than 1 foot to the edge of the rock layer (see diagram), subtract 2 feet from the rock layer length
 $\frac{62.5}{\text{rock layer length}} - 2 \text{ ft} = \underline{60.5} \text{ ft}$

E-4: Maximum allowable number of 1/4-inch perforations per lateral to guarantee <10% discharge variation

perforation spacing (feet)	1 inch	1.25 inch	1.5 inch	2.0 inch
2.5	8	14	18	28
3.0	8	13	17	26
3.3	7	12	16	25
4.0	7	11	15	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 = $\frac{60.5 \text{ ft}}{2.5 \text{ ft}} = \underline{24}$ 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.
 $\underline{24} \text{ spaces} + 1 = \underline{25}$ perforations/lateral

6. A. Total number of perforations = perforations per lateral (5) times number of laterals (1).
 $\underline{25} \text{ perfs/lat} \times \underline{3} \text{ laterals} = \underline{75}$ 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)
 $\underline{12} \text{ ft} \times \underline{62.5} \text{ ft} = \underline{750} \text{ ft}^2$
2. Square foot per perforation = Rock Bed Area / number of perfs (6)
 $\frac{750.0 \text{ ft}^2}{\underline{75} \text{ perfs}} = \underline{10.0} \text{ ft}^2/\text{perf}$

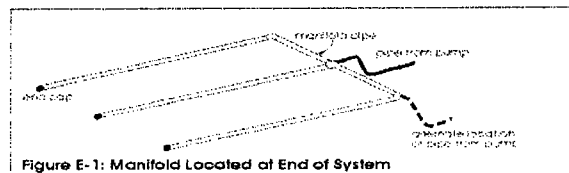
7. Determine required flow rate by multiplying the total number of perforations(6A) by flow per perforations (see figure E-6)
 $\underline{75} \text{ perfs} \times \underline{0.56} \text{ gpm/perf} = \underline{42} \text{ gpm}$

E-6: Perforation Discharge in gpm

head (feet)	perforation diameter (inches)			
	1/8	3/16	7/32	1/4
1.0 ^a	0.18	0.42	0.56	0.74
2.0 ^b	0.26	0.59	0.80	1.04
5.0	0.41	0.94	1.26	1.65

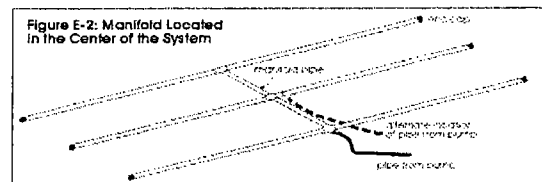
^a Use 1.0 foot for single-family homes.
^b Use 2.0 feet for grouting, etc.

8. 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 = 2 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.



I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

(signature)

1767 (license #)

3/26/04 (date)

PUMP SELECTION PROCEDURE

DOSE TO PRESSURE BED

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

1. Determine pump capacity:

A. Gravity Distribution

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

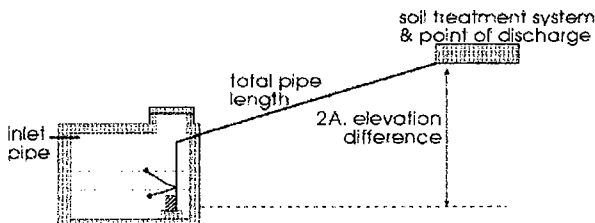
B. Pressure Distribution - see pressure design worksheet

Selected Pump Capacity: gpm

2. Determine head requirements:

A. Elevation difference between pump and point of discharge.

feet



B. Special head requirement? (See Figure - Special Head Requirements)

feet

Special Head Requirements	
Gravity Distribution	0ft
Pressure Distribution	5ft

C. Friction loss

1. Select pipe diameter 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= ft/100 ft of pipe

flow rate gpm	nominal pipe diameter		
	1.5"	2"	3"
20	2.47	0.73	0.11
25	3.73	1.11	0.16
30	5.23	1.55	0.23
35	6.96	2.06	0.30
40	8.91	2.64	0.39
45	11.07	3.28	0.48
50	13.46	3.99	0.58
55		4.76	0.70
60		5.60	0.82
65		6.48	0.95
70		7.44	1.09

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

ft x 1.25 = feet

4. Calculate total friction loss by multiplying friction loss (C2)

by the equivalent pipe length (C3) and divide by 100.

FL= ft/100ft X ft / 100 = feet

D. Total head requirement is the sum of elevation difference (A), special head requirements (B), and total friction loss (C4).

ft + ft + ft

Total Head: feet

3. Pump Selection

1. A pump must be selected to deliver at least gpm (1A or B) with at least feet of total head (2D).

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

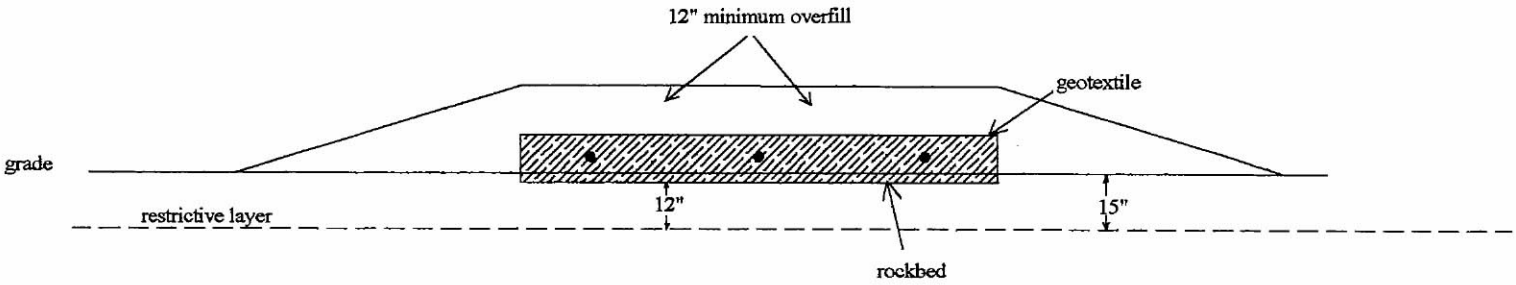
 (signature)

(license #)

(date)

Arneson cross section north end of pressure bed.

South end of bed only requires 7" of overfill.



/

**Soil Borings - Arneson
40663 - 236th Lane
Aitkin, MN 56431**

B1	0-3"	finesandyloam	singlegrain, loose	10YR 3/2
	3-23"	finesandyloam	singlegrain, loose	10YR 3/3
	23-33"	finesand	singlegrain, loose	10YR 4/3
	mottled at 27"			
B2	0-14"	finesandyloam	singlegrain, loose	10YR3/2
	14-20"	finesandyloam	singlegrain, loose	10YR 3/3
	20-28"	old drainfield		

Mixed / disturbed soils exist in the proposed new septic area. There is an old drainfield under part of the proposed new field. It is 20" below grade to the top of the rock. Cover soil is loose fine sandy loam and fine sand. No evidence of compaction was found.

ATTN: AITKIN COUNTY ZONING
RE: SHORELAND IMPERVIOUS CALC.

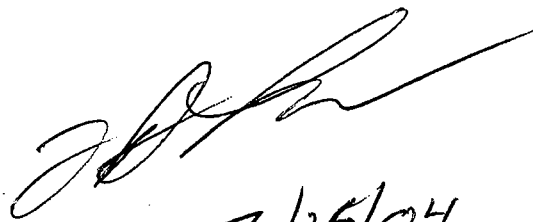
IMPERVIOUS SURFACE CALCULATION

DRIVEWAY TO SHOP	528
SHOP	1292
DRIVEWAY	2450
PARKING	563
HOUSE	1848
GUEST CABIN	624
SEPTIC SYSTEM 3 BAY X 190	<u>570</u>
	7865 FT ²

TOTAL LOT = 31,973 FT² X 25% =

7993 FT²

ALLOWED IMPERVIOUS = 7993 FT²
ACTUAL IMPERVIOUS 7865 FT²



3/26/04

Aitkin County Environmental Services

Application for an Operating Permit for Wastewater Treatment And Dispersal

Permittee: Robert & Judy Arneson

Parcel Number: 11-1-107200

Address: 40663 - 236th Lane
Aitkin, MN 56431

Legal Description: Lot 7, North Shore Beach, Section 25 T45 R27

Telephone # 218-678-3575

GIS Location _____

A. Description of Wastewater Treatment and Dispersal System:

This ISTS consists of a shallow pressurized bed built in part over the existing drainfield. A guest cabin on site will have effluent redirected to the existing septic tank for the home. This existing tank will have a screened effluent pump installed to time dose into a 500 gallon per day Multi-Flo Aerobic Treatment Plant. Effluent will gravity flow from the Multi-Flo to a new 630 gallon pump tank. From there it will dose to the pressure bed. Reduction in separation, and thereby drainfield height, allows this system to fit in the lot.

Number of Bedrooms = 3

Flow = 450 gallons per day

Hydraulic Loading Rate = 0.6 gpd/sqft

Organic Loading Rate = .000033 BOD/sqft

Estimated Cost of:

System Construction = \$10,100

Operation = \$10 per month

Monitoring & Servicing: first two years No Charge, after two years
\$150/yr

Testing = \$80 first year, then \$40/yr 2 years

Anticipated System Life = 25 - 30 years

B. Performance Standard Requirements:

During the period beginning on the date of the Operating Permit and lasting until the Permit's expiration date, the Permittee is authorized to discharge from the wastewater treatment unit to subsurface dispersal. No surface discharge is permitted. The following parameters must be monitored and the results must be found within the compliance limits.

Parameter	Compliance Limit	Sample Location	Sample Frequency	Sample Type	Reporting Frequency
Fecal Coliform	<1000 cfu/100ml	ATU / Pump Tank	Semi-annual 1st year		Annual
Flow	450 GPD	Water meter	Monthly	Record on log sheet	Annual

C. Maintenance Requirements:

Parameter	Location	Frequency
Daily Flow	Water Meter	Monthly (record on log sheet)
Sludge and scum level	Septic Tank	Annually
Pump, Alarms, Floats, etc.	Tanks	Annually
Multi-Flo	Multi-Flo	Semi-annually
Surfacing effluent, landscaping etc.	Total system	Annually

D. Monitoring and Reporting Requirements:

Monitoring results obtained during each calendar year shall be submitted no later than December 31st of that year to:

Aitkin County Environmental Services
209 - 2nd Street NW
Aitkin, MN 56341

The monitoring reports shall be signed by the Permittee. Copies are to be retained by the Permittee.

The Permittee shall notify Aitkin County Environmental Services within thirty (30) days when monitoring results do not meet the monitoring plan requirements of this permit.

Monitoring plans may be modified as necessary and reapproved by Aitkin County Environmental Services.

Sampling and laboratory testing procedures shall be performed in accordance with Standard Methods and the testing shall be performed by a Minnesota Department of Health approved laboratory. All sampling and testing costs shall be the responsibility of the Permittee.

Monitoring will be done by:

Eric Larson, 6549 Keystone Road, Milaca, MN 56353 320-983-2447 Lic #1767

E. Mitigation Plan:

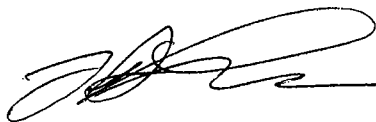
If surfacing occurs: reduce water use.

Waste strength: if fecals exceed limit, add disinfection.

If flow exceeds limit: reduce flow.

A replacement septic system could be constructed, or if this system were to fail and no other option is available, install holding tanks and enter into a pumping contract with a County approved septic pumper.

I hereby certify with my signature as the designer, that all data for the operating application is true and correct to the best of my knowledge.



License #1767

3-25-04

Eric Larson 6549 Keystone Rd, Milaca, MN 56353 320-983-2447

RECEIVED MAY 04 2004
**MAINTENANCE SERVICE, MONITORING AND INSPECTION
CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM**

It is hereby agreed this 28 day of APRIL, 2004 by and between
SEPTIC CHECK (Inspector) and ROBERT ARNESON (client)

(Client) Name & Address

ROBERT ARNESON PARCEL # 11-1-107200

Street Address 40663 - 236th LANE

City, State, Zip AITKIN, MN 56431

That in consideration of the payments provided herein, the Inspector shall provide services to perform Preventative Maintenance, Monitoring and Inspection of the Individual Sewage Treatment System (ISTS) located at the property described in the Aitkin County Operating Permit.

Each inspection includes an examination of the ISTS followed by a written report to the client. This inspection report shall contain recommendations for operation and maintenance for failure-preventative measures, if any are deemed appropriate by the inspector and a list of recommended corrective measures or replacement parts. The Inspector is authorized to submit a copy of the report to the Aitkin County Environmental Services Department.

This contract does not assume any responsibilities or obligations, which are normally the responsibilities of the Client, as related to parts or labor and does not extend to cover any costs that may be associated with any recommendations made under this contract.

The Inspector can only contract or subcontract for parts or labor after authorization. Billings for service calls shall be made on a case by case basis. This contract only covers maintenance, monitoring and inspection services per current Aitkin County Operating Permit and does not cover alarm calls of any kind.

The Inspector shall be provided access to the site and the system in order to perform the following services:

SEPTIC TANK AND LIFT STATIONS INSPECTION

(check the boxes needed to fill the requirements of the Operating Permit)

Check septic tank and compartments for solids buildup and general appearance. If necessary, have tanks pumped (cost of pumping is the responsibility of the client).

Check effluent filter for buildup and clean, if applicable.

Check pumping system, including control panel and floats.

Record and date the readings of the elapsed time meter and cycle counter(s), if applicable.

Check dosing settings (in the control panel, if applicable).

Other: _____

**If the septic tank or lift stations need pumping to be in compliance with the operating permit the cost of the pumping is the responsibility of the Client.

TREATMENT DEVICE

Inspect pretreatment unit (aerobic tank, sand filter, etc.) per manufacturer's recommendations, if applicable.

Inspect and clean any parts per manufacturer's recommendations.

Inspect and clean laterals, if applicable.

Inspect the appearance of the wastewater inside the unit for color, turbidity and examination of odors.

Sample effluent per Operating Permit monitoring requirements.

(Cost of sampling and analysis is the responsibility of the Client)

Other: _____

DISPERSAL FIELD

Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)

If liquid level monitors are installed, levels will be observed and recorded.

Flush filters and clean cartridges, if applicable.

Check field control unit solenoid operations or manual control, if applicable.

Other: _____

In no event shall the Inspector be responsible for special or consequential damages, including but not limited to, loss of time, injury to personal property or any other consequential damages or incidental or economic loss due to equipment failure or for any other reason. This contract does not assume any responsibilities or obligations, which are normally, the responsibility of the Client or as, related to parts or labor and does not extend to cover any costs that may be associated with any recommendations made under this contract.

This contract shall be effective: Beginning WITH INSTALLATION
and Ending ANNUALLY RENEWED

Cost for Maintenance Service, Monitoring and Inspection Contract is:

\$ 0 /yr. For 2 years totaling \$ 0
\$150 ESTIMATED FOR YEAR 3

The Inspector agrees to provide inspection, monitoring and routine maintenance service only under this contract. The Client remedies for breach of this contract shall be limited to refund of any of the amounts paid in advance for service. This contract may be renewed 30 days from the ending date.

Payment for all services shall be paid PAID IN ADVANCE.

Client:

Inspector:

Sign: Robert K. Arneson

Sign: Eric R. Larson

Print: Robert K. Arneson

Print: ERIC R. LARSON

Date: 4/30/04

Date: 4/29/04

AITKIN COUNTY
CERTIFICATE OF COMPLIANCE/NOTICE OF NONCOMPLIANCE

This certificate of compliance/notice of noncompliance has been issued this _____ day of 7/12/04 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: _____
Lot 7 North Shore Beach

Section 25 Township 45 Range 27 Lake Milwaukee

PERMIT NO. 31603 Owner Name Robert Arneson

Address 40663 236th Lane Aitkin, MN 56431

Installer Name Cory Johnson

Type of System Inspected "other" multi flow pressure Bed

The ~~certificate of compliance~~ notice of noncompliance was based on, No 1 of the following:

- 1) Inspection of the installation or construction as in accordance with the above referenced permit and application design.
- 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.

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:

- 1) Statement of the findings of fact through inspections or investigations: _____
- 2) List of specific violations of Ordinance: _____
- 3) Requirements for correction or removal of violations: _____
- 4) Time schedule for compliance: _____

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.

INSPECTOR SIGNATURE *[Signature]*

**INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM
AITKIN COUNTY, MINNESOTA**

Township Hazelton Date of Inspection 6/17/04 Permit Number 31603
 Owner Robert Arneson Parcel Number 11-1-102200
 Project Address lot 7 North Shore Beach Installer Cory Johnson
 City _____ Zip Code _____ New _____ Repair

SETBACKS:

Buildings to tank(s) 10
 Buildings to drainfield 30
 Well(s) 50' or 100' 50'
 Lake/Creek/Wetland 150

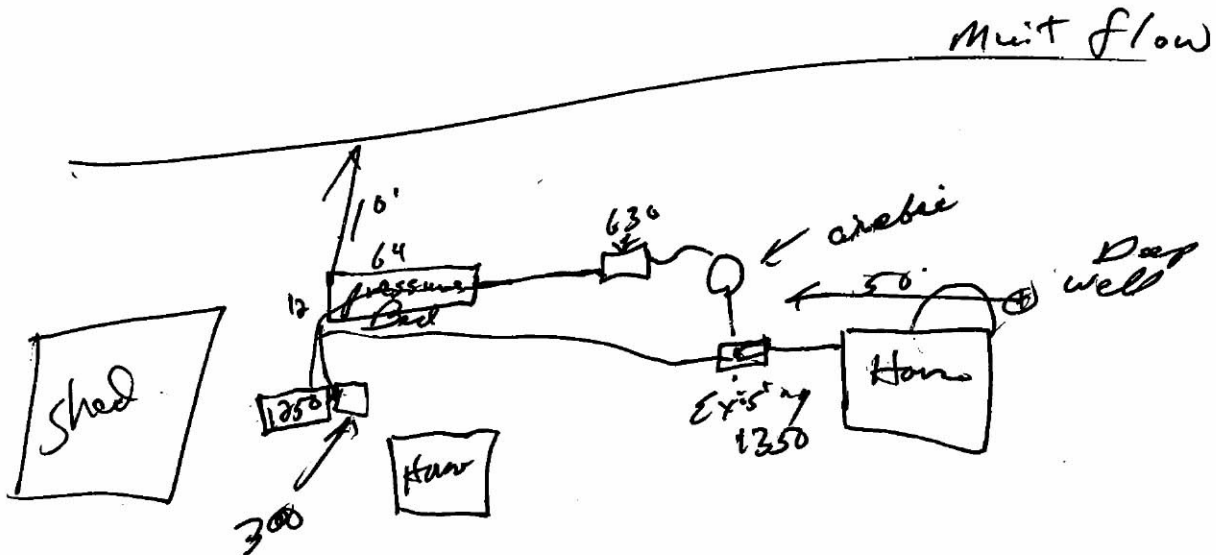
SEPTIC TANKS:

Liquid capacity Existing 1350
 Manufacturer & type Jac pre-cast
 Type of baffle Plastic
 Inspection pipes 1 1/4"
 Manholes access 1
 No. & height of risers 6"

MOUNDS:

Percent slope _____
 Upslope dike width _____
 Downslope dike width _____
 Sideslope dike width _____
 Drainfield rock below pipe _____
 Depth of sand below rock _____
 Perforation size & spacing 7/32 - 30"
 Pipe size & spacing 2" - 3' intervals
 Dimensions of rock bed _____
 Dimensions of sand base _____
 Final cover _____

DRAWING OF SYSTEM



DIST. or DROP BOX & TYPE

TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:

Trench depth 15'
 Trench length 64'
 Trench bottom width 12'
 Trench bottom level yes
 Trench spacing pressure bed
 Drainfield rock below pipe 9"
 Size of gravelless pipe -
 Depth of backfill 18"
 Absorption area: square feet _____
 lineal feet _____

PUMPS:

Tank capacity 630 - Existing
 Tank manufacturer & type Jac pre-cast
 No. & height of risers 12"
 Pump manufacturer & model# 1/2 Gould & AOS
 Horsepower & GPM 1/2 Gould 4/10 AOS
 Feet of head 8'
 Cycles per day 5
 Gallons per cycle 100
 Size of discharge line 2"
 Type of electrical hookup post Timed Dead
 Type & location of alarm 2'ac outdoor
 Cycle counter (commercial) _____

Inspector's Comments _____

Corrective Action Required _____

Inspector's Signature [Signature] Installer's Signature Cory R. Johnson
 White-County Yellow-Applicant Pink-Installer

Goble's Sewer Service

30731 Pioneer Ave
Aitkin, MN 56431

218-927-6175 800-713-5234

MPCA registered company
Company License Number 455

RECEIVED OCT 21 2003

11-1-107 200

Septic tank fact sheet:

System inspector or installer (Virginia)

Current septic tank owner: Robert Arneson

Address: 40663 236th LN. Aitkin, MN 56431

Phone number:

Tank Type: precast concrete septic and lift tanks

Approx. size (gallons): 1350/120

Approximate age in years: 13

Lift station: yes

Our procedure for inspecting a septic tank is as follows:

Open the access cover

Clean the septic and lift tanks removing all liquid and solids.

Do a fresh water rinse.(Not available during cold weather months.)

Take a look at the septic tank from the access opening; included is looking for cracks, breaks, or other signs of deterioration.

Check to see if the baffles are still in place.

Replace the access cover.

Defects are listed below:
NONE

Recommendations or comments:

#1 tank 6" down on inlet #2 manhole surface

Inspection performed by: Dan Swanson 10-15-3

Note: This is a septic tank fact sheet, not a complete sewer inspection form and does not replace a complete sewer inspection for transfer of property. In some instances, this form may be used in conjunction with a sewer inspection.

Aitkin County Environmental Services Planning and Zoning
209 Second Street NW
Aitkin, MN 56431
Phone: 218-927-7342
Fax: 218-927-4372



August 24, 2006

OLSON, ROGER & JUNE
40663 236TH LANE
AITKIN MN 56431

Dear Mr. and Mrs. Olson:

This letter is in regards to your septic system permit on parcel # 11-1-107200 with a legal description of NORTH SHORE BEACH, LOT 7.

Your septic system is considered an "other" septic system. It is not a standard septic system by Minnesota Pollution Control Agency standards. A 5-year operating permit renewal will now be required, instead of yearly \$50.00 operating permit. It will expire May 31, 2011.

If you have any questions about your septic system or about this operating permit, please contact our office or Septic Check. They are your MPCA licensed septic system designer.

Sincerely,

Missy Kingsley
Aitkin County Planning and Zoning

Encl.



RECEIVED AUG 21 2006

Septic Check,™ Inc.
Septic System Management Services

8-17-06

Terry Neff
Aitkin County Environmental Services
209 - 2nd Street NW
Aitkin, MN 56431

Terry,

Attached to this letter are the event counter or water meter readings we have on file. I also included the gallon per event multipliers for the customers you had asked for. If you need more information or have any questions please contact me at 320-983-2447.

Sincerely,

Brian Koski

Jan Paulson	12-12-04	999804
	5-23-05	000010
	5-30-06	000053

NOTE: This is not the homeowner's primary residence, as the meter readings indicate low water usage. The multiplier is 90 gallons per event.

Roger Olson	8-24-04	999808
	12-12-04	999908
	5-17-05	000112
	12-12-05	000331
	4-25-06	000339

139 gal

NOTE: The multiplier for this system is 120 gallons per event.

Blue Valley Sod	11-2-04	999810	
	12-17-04	999810	
	1-14-05	999810	
	5-26-05	002392	} - 35 gpd
	5-1-06	002522	

NOTE: When this system was installed the event counter was wired incorrectly by the electrician and was fixed as of 5-26-05. The multiplier is 90 gallons per event.

Helen Minor	7-21-05	999805
	5-1-06	999820

NOTE: Homeowner was not present for much of the time between these readings. The multiplier is 63 gallons per event.

Dave Fischer	12-8-03	2001	
	12-15-03	2157	
	12-29-03	2332	
	1-20-04	2658	
	2-3-04	2805	
	4-30-04	3986	} $5580 \times 10 = 55800 \div 391 = 143 \text{ gpd}$
	7-7-04	4917	
	12-18-04	7336	
	5-26-05	9566	

NOTE: These are water meter readings. Each click on the water meter equals 10 gallons.



Septic Check,™ Inc.

Septic System Management Services

12-7-06

Aitkin County Environmental Services
209 - 2nd Street NW
Aitkin, MN 56431

RE: Operating Permit for Parcel # 11-1-107200

Roger Olson
40663 - 236th Lane
Aitkin, MN 56431

Parameter	Compliance Limit	Actual
Fecal Coliform	<1000 CFU/100ml	160
Daily Flow	350 GPD	60 GPD

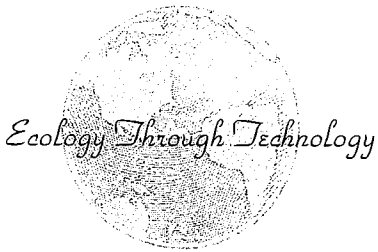
Brian Koski
Lic 2624

Septic Check, Inc.

Roger Olson

Protecting Your Investment and Everyone's Environment

6549 Keystone Rd. • Milaca, MN 56353
(320) 983-2447 • (320) 983-2151 Fax • (888) 983-2447 Toll Free



A.W. Research Laboratories Inc.

Analysis Report

May 09, 2006

REPORT TO:
SEPTIC CHECK INC.

INVOICE TO:
SEPTIC CHECK INC.

6549 KEYSTONE RD
MILACA MN 56353-

6549 KEYSTONE RD
MILACA MN 56353-

Date Sampled 5/3/2006
Time Sampled 10:35
Sample Type WW
Date Rcvd-Brnd: 5/3/2006
Time Rcvd-Brnd: 12:09
Sampled by: STEPHEN HASTY
Recv Temp: 5 C

LAKE/SITE #: ROGER OLSON

ANALYSIS - TEST(s)
COMMENTS

Analyzed Value	Public Health Limit	Analysis Date Analysis Time	Analyst	Brainerd Codes
----------------	---------------------	--------------------------------	---------	----------------

FECAL COLIFORM, COLONIES/100 ML-C	160	200 Colonies	5/3/2006 17:00	SO 80730B
-----------------------------------	-----	--------------	-------------------	-----------

APPROVED BY: *Sara Ostrowski*
LABORATORY DIRECTOR

A.W. Research Laboratories is Certified by the Minnesota Department of Public Health and follows approved methods and procedures. Minnesota Laboratory Certification # 027-035-135. Data generated using certified methods noted as -C, data generated using uncertified methods as -NC, and data generated using a method for which certification is unavailable -NA.



Septic Check, Inc
 6549 Keystone Road
 Milaca, MN 56353
 320-983-2447
 www.septic-check.com

OP# 149

MAINTENANCE SERVICE REPORT

Year ending 12-31-2010

Owner: Roger Olson
 40663 - 236th Lane
 Aitkin, MN 56431

System ID: 19

County: Aitkin

Parcel ID: 11-1-107200

Site Address: 40663 - 236th Lane
 Aitkin, MN 56431

Water Usage

Service Date	Description	Prev Event	Current Event	Period Gallons	Gallons/day
4/26/2010	Standard Service	640	640	0.0	0.0
9/25/2010	standard service	640	640	0.0	0.0
				0.0	0.0
				0.0	#DIV/0!

Performance Requirements

Sample Date	Type	Permit Limit	Test Results
	Fecals Limit	1000 CFU/100ml	N/A CFU/100ml
	TSS Limit	N/A Mg/l	N/A Mg/L
	FOG Limit	N/A Mg/l	N/A Mg/l
	BOD Limit	N/A Mg/l	N/A Mg/l
	Gallon Per Day Limit	450	0.0

Maintenance Requirements

Septic Tank		Pump Tank		Alarms inspected		
Sludge	Scum	Sludge	Scum	Aerator	Trash Trap	Drainfield Pump
16	0	8	0	√	√	√

Treatment Unit

Trash Trap Pump		Drainfield Pump		Treatment Unit			
Amps	Oper.	Amps	Oper.	MLSS%	Aerator Amps	WeiPlate Cleaned	Filter Cleaned
√	√	√	√	15	2.1	√	√

Septic Check, Inc.

6549 Keystone Rd
Milaca, MN 56353

320-983-2447
Fax: 320-983-2151

PROPERTY INFORMATION

Roger Olson
 Location: 40663 236th Lane
 Aitkin
 PARCEL (APN): 11-1-107200
 Use: Residential, Single Family
 System Design Flow: 450
 GENERAL SYSTEM TYPE: Multi-Flo Pretreatment & Pressur
 Owner: Roger Olson

Mail To: Roger Olson
 40663 236th Lane
 Aitkin, MN
 56431

Fold
Here

ONSITE SEWAGE SYSTEM INSPECTION REPORT

Inspected: 05/03/2011 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Fold
Here

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

SERVICE INFORMATION

Company: Septic Check, Inc.	Work Performed By: Jared Deboer	Submitted 02/17/2012 by: Greg Sokoloski
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This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

ONSITE SEWAGE SYSTEM INSPECTION DETAIL

TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size		
Manufacturer: Local Manufacturer Model: Concrete		
This component was:	Fully Inspected	
All required baffles in place (N/A = No baffles required):	YES	
Effluent level within operational limits (if NO explain in comments)	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	0	
Compartment 1 Sludge accumulation (Inches, if other specify):	10	
Pumping recommended:	NO	
TANK: Pump Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size		
Manufacturer: Local Manufacturer Model: Concrete		
This component was:	Partially Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	N/A	
Compartment 1 Sludge accumulation (Inches, if other specify):	N/A	
Pumping recommended:	NO	
Pump: Effluent Pump Pump Tank #1 Pump		
This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #2 Est.1350 gal.		
Manufacturer: Local Manufacturer Model: Concrete		
This component was:	Fully Inspected	
All required baffles in place (N/A = No baffles required):	YES	
Effluent level within operational limits (if NO explain in comments)	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	0	
Compartment 1 Sludge accumulation (Inches, if other specify):	1	
Pumping recommended:	NO	
Pump: Effluent Pump Trash Trap #2 Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
Aerobic Treatment Unit: ATU, Manufacturer= Consolidated Treatment Systems - Multi-Flow FTP-0.5 500 GPD Multi-Flo		
Manufacturer: Consolidated Treatment Systems Model: Multi-Flow FTP-0.5		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments)	YES	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
ATU serviced per manufacturers requirements including cleaning of applicable filter(s):	YES	
Trash Compartment solids accumulation within operational limits per manufacturer (n/a = no trash compartment):	YES	
Aerobic Chamber solids accumulation within manufacturer operational limits (n/a = no aerobic chamber):	YES	
Clarifying Chamber solids accumulation within manufacturer operational limits (n/a = no clarifying chamber):	N/A	
Pumping recommended:	NO	
TANK: Pump Tank Effluent 630 gallon		
Manufacturer: Local Manufacturer		
This component was:	Fully Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	N/A	
Compartment 1 Sludge accumulation (Inches, if other specify):	N/A	
Pumping recommended:	NO	
Pump: Effluent Pump Effluent Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
Panel: Control - 2 Pumps Multi-Flo Panel		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	N/A	
Pump 1: off hours (override in parentheses - if present):	N/A	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	N/A	
Pump 1: Cycle Count (override in parentheses - if present):	N/A	
Pump 2: on minutes (override in parentheses - if present):	N/A	
Pump 2: off hours (override in parentheses - if present):	N/A	
Pump 2: gallons per dose (override in parentheses - if present):	N/A	
Pump 2: Cycle Count (override in parentheses - if present):	N/A	
Pump 2: ETM hours (override in parentheses - if present):	N/A	
Drainfield: Pressure Bed 12' X 62.5'		
This component was:	Partially Inspected	
Lateral lines flushed:	NO	
Average squirt height (if performed) (Feet, if other specify):	N/A	
Ponding Present:	NO	

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

Septic Check, Inc.

6549 Keystone Rd
Milaca, MN 56353

320-983-2447
Fax: 320-983-2151

PROPERTY INFORMATION

Roger Olson
Location: 40663 236th Lane
Aitkin
PARCEL (APN): 11-1-107200
Use: Residential, Single Family
System Design Flow: 450
GENERAL SYSTEM TYPE: Multi-Flo Pretreatment & Pressur
Owner: Roger Olson

Mail To: Roger Olson
40663 236th Lane
Aitkin, MN
56431

Fold
Here

ONSITE SEWAGE SYSTEM INSPECTION REPORT

Inspected: 11/10/2011 - Inspection Type: ROUTINE - Correction Status: Other - see comments

Fold
Here

COMMENTS & GENERAL INSPECTION NOTES

Deficiencies Noted: deficiencies must be corrected to ensure proper longevity of the Onsite Sewage System.

No flow data. I will check/install a new event counter during the next site visit.

Multi-flo solids accumulation not within manufacturer operational limits. pumping is suggested at 30% settleability. system is currently at 35-40%.

Aerator alarm is actuated but aerator is ok. New alarm sensor was installed on 01/06/12.

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

SERVICE INFORMATION

Company:
Septic Check, Inc.

Work Performed By:
Greg Sokoloski

Submitted 02/17/2012 by:
Greg Sokoloski

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

ONSITE SEWAGE SYSTEM INSPECTION DETAIL

TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size		
Manufacturer: Local Manufacturer Model: Concrete		
This component was:	Fully Inspected	
All required baffles in place (N/A = No baffles required):	YES	
Effluent level within operational limits (if NO explain in comments)	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	1	
Compartment 1 Sludge accumulation (Inches, if other specify):	1	
Pumping recommended:	NO	
TANK: Pump Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size		
Manufacturer: Local Manufacturer Model: Concrete		
This component was:	Partially Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	N/A	
Compartment 1 Sludge accumulation (Inches, if other specify):	N/A	
Pumping recommended:	NO	
Pump: Effluent Pump Pump Tank #1 Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #2 Est.1350 gal.		
Manufacturer: Local Manufacturer Model: Concrete		
This component was:	Fully Inspected	
All required baffles in place (N/A = No baffles required):	YES	
Effluent level within operational limits (if NO explain in comments)	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	0	
Compartment 1 Sludge accumulation (Inches, if other specify):	0	
Pumping recommended:	NO	
Pump: Effluent Pump Trash Trap #2 Pump		
This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
Aerobic Treatment Unit: ATU, Manufacturer= Consolidated Treatment Systems - Multi-Flow FTP-0.5 500 GPD Multi-Flo		
Manufacturer: Consolidated Treatment Systems Model: Multi-Flow FTP-0.5		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments)	YES	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
ATU serviced per manufacturers requirements including cleaning of applicable filter(s):	YES	
Trash Compartment solids accumulation within operational limits per manufacturer (n/a = no trash compartment):	YES	
Aerobic Chamber solids accumulation within manufacturer operational limits (n/a = no aerobic chamber):	NO	See Comments
Clarifying Chamber solids accumulation within manufacturer operational limits (n/a = no clarifying chamber):	N/A	
Pumping recommended:	NO	
TANK: Pump Tank Effluent 630 gallon		
Manufacturer: Local Manufacturer		
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	
Pump: Effluent Pump Effluent Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
Panel: Control - 2 Pumps Multi-Flo Panel		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	N/A	
Pump 1: off hours (override in parentheses - if present):	N/A	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	N/A	
Pump 1: Cycle Count (override in parentheses - if present):	N/A	
Pump 2: on minutes (override in parentheses - if present):	N/A	
Pump 2: off hours (override in parentheses - if present):	N/A	
Pump 2: gallons per dose (override in parentheses - if present):	N/A	
Pump 2: Cycle Count (override in parentheses - if present):	639	
Pump 2: ETM hours (override in parentheses - if present):	N/A	
Drainfield: Pressure Bed 12' X 62.5'		
This component was:	Partially Inspected	
Lateral lines flushed:	NO	
Average squirt height (if performed) (Feet, if other specify):	N/A	
Ponding Present:	NO	

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

11-1-107200

OP# 149
P# 31603

2/1/2013

Septic Check

6074 Keystone Rd
Milaca, MN 56353

320-983-2447
Fax: 320-983-2151

PROPERTY INFORMATION

Roger Olson
Location: 40663 236th Lane
Aitkin
PARCEL (APN): 11-1-107200
Use: Residential, Single Family
System Design Flow: 450
GENERAL SYSTEM TYPE: Multi-Flo Pretreatment & Pressur
Owner: Roger Olson

Mail To: Roger Olson
40663 236th Lane
Aitkin, MN
56431

Fold
Here

ONSITE SEWAGE SYSTEM INSPECTION REPORT

Fold
Here

Inspected: 11/09/2012 - Inspection Type: ROUTINE - Correction Status: Corrections in progress

COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

The event counter is not operating properly. It either has a bad connection or it needs replaced. It will be inspected further in the Spring of 2013.

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

SERVICE INFORMATION

Company: Septic Check	Work Performed By: Dean Nelson	Submitted 02/01/2013 by: Dean Nelson
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This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

ONSITE SEWAGE SYSTEM INSPECTION DETAIL

TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size		
Manufacturer: Local Manufacturer Model: Concrete		
This component was:	Fully Inspected	
All required baffles in place (N/A = No baffles required):	YES	
Effluent level within operational limits (if NO explain in comments)	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	SKIM	
Compartment 1 Sludge accumulation (Inches, if other specify):	1	
Pumping recommended:	NO	
TANK: Pump Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size		
Manufacturer: Local Manufacturer Model: Concrete		
This component was:	Fully Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	0	
Compartment 1 Sludge accumulation (Inches, if other specify):	0.5	
Pumping recommended:	NO	
Pump: Effluent Pump Pump Tank #1 Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	NO	
TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #2 Est.1350 gal.		
Manufacturer: Local Manufacturer Model: Concrete		
This component was:	Fully Inspected	
All required baffles in place (N/A = No baffles required):	YES	
Effluent level within operational limits (if NO explain in comments)	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	2	
Compartment 1 Sludge accumulation (Inches, if other specify):	5	
Pumping recommended:	NO	
Pump: Effluent Pump Trash Trap #2 Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	NO	
Aerobic Treatment Unit: ATU, Manufacturer= Consolidated Treatment Systems - Multi-Flow FTP-0.5 500 GPD Multi-Flow		
Manufacturer: Consolidated Treatment Systems Model: Multi-Flow FTP-0.5		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments)	YES	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
ATU serviced per manufacturers requirements including cleaning of applicable filter(s):	YES	
Trash Compartment solids accumulation within operational limits per manufacturer (n/a = no trash compartment):	YES	
Aerobic Chamber solids accumulation within manufacturer operational limits (n/a = no aerobic chamber):	YES	
Clarifying Chamber solids accumulation within manufacturer operational limits (n/a = no clarifying chamber):	YES	
Pumping recommended:	NO	
TANK: Pump Tank Effluent 630 gallon		
Manufacturer: Local Manufacturer		
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	
Pump: Effluent Pump Effluent Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	NO	
Panel: Control - 2 Pumps Multi-Flow Panel		
This component was:	Partially Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	13 SEC	
Pump 1: off hours (override in parentheses - if present):	8 MIN	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	N/A	
Pump 1: Cycle Count (override in parentheses - if present):	N/A	
Pump 2: on minutes (override in parentheses - if present):	N/A	
Pump 2: off hours (override in parentheses - if present):	N/A	
Pump 2: gallons per dose (override in parentheses - if present):	N/A	
Pump 2: Cycle Count (override in parentheses - if present):	639	
Pump 2: ETM hours (override in parentheses - if present):	N/A	
Drainfield: Pressure Bed 12' X 62.5'		
This component was:	Partially Inspected	
Lateral lines flushed:	NO	
Average squirt height (if performed) (Feet, if other specify):	N/A	
Ponding Present:	NO	

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

SAMPLING REPORT

2/1/2013

Location: 40663 236th Lane
Aitkin
11-1-107200

Owner: Roger Olson
Use: Single Family

Service Company:

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

11/09/2012 sample entered by :Dean Nelson

Notes: The event counter is not operating properly and will be fixed in the Spring of 2013.

ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Effluent Pump Effluent Pump	Effluent	Flow	450 GPD	0 GPD

This report indicates certain characteristics of the sample taken at the time of visit. In no way is this report a guarantee of operation or future performance.

Septic Check

6074 Keystone Rd
Milaca, MN 56353

320-983-2447
Fax: 320-983-2151

PROPERTY INFORMATION

Roger Olson
Location: 40663 236th Lane
Aitkin
PARCEL (APN): 11-1-107200
Use: Residential, Single Family
System Design Flow: 450
GENERAL SYSTEM TYPE: Multi-Flo Pretreatment & Pressur
Owner: Roger Olson

Mail To: Roger Olson
40663 236th Lane
Aitkin, MN
56431

Fold
Here

ONSITE SEWAGE SYSTEM INSPECTION REPORT

Inspected: 07/24/2012 - Inspection Type: ROUTINE - Correction Status: Other - see comments

Fold
Here

COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

The event counter on the effluent pump is not operating properly and should be replaced. The event counter will be replaced at the next service visit, pending owner approval. Please contact Brian to discuss the repair. 218-428-0391

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

SERVICE INFORMATION

Company:
Septic Check

Work Performed By:
Dean Nelson

Submitted 08/27/2012 by:
Dean Nelson

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

ONSITE SEWAGE SYSTEM INSPECTION DETAIL

TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Partially Inspected	
All required baffles in place (N/A = No baffles required):	YES	
Effluent level within operational limits (if NO explain in comments)	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	na	
Compartment 1 Sludge accumulation (Inches, if other specify):	na	
Pumping recommended:	YES	

TANK: Pump Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Partially Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	na	
Compartment 1 Sludge accumulation (Inches, if other specify):	na	
Pumping recommended:	YES	

Pump: Effluent Pump Pump Tank #1 Pump

This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	na	

TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #2 Est.1350 gal.

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Partially Inspected	
All required baffles in place (N/A = No baffles required):	YES	
Effluent level within operational limits (if NO explain in comments)	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	na	
Compartment 1 Sludge accumulation (Inches, if other specify):	na	
Pumping recommended:	YES	

Pump: Effluent Pump Trash Trap #2 Pump

This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	na	

Aerobic Treatment Unit: ATU, Manufacturer= Consolidated Treatment Systems - Multi-Flow FTP-0.5 500 GPD Multi-Flo

Manufacturer: Consolidated Treatment Systems Model: Multi-Flow FTP-0.5

This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments)	YES	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
ATU serviced per manufacturers requirements including cleaning of applicable filter(s):	YES	
Trash Compartment solids accumulation within operational limits per manufacturer (n/a = no trash compartment):	YES	
Aerobic Chamber solids accumulation within manufacturer operational limits (n/a = no aerobic chamber):	YES	
Clarifying Chamber solids accumulation within manufacturer operational limits (n/a = no clarifying chamber):	YES	
Pumping recommended:	YES	

TANK: Pump Tank Effluent 630 gallon

Manufacturer: Local Manufacturer

This component was:	Partially Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	na	
Compartment 1 Sludge accumulation (Inches, if other specify):	na	
Pumping recommended:	YES	

Pump: Effluent Pump Effluent Pump

This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	na	

Panel: Control - 2 Pumps Multi-Flo Panel

This component was:	Partially Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	na	
Pump 1: off hours (override in parentheses - if present):	na	
Pump 1: gallons per dose (override in parentheses - if present):	na	
Pump 1: ETM hours (override in parentheses - if present):	na	
Pump 1: Cycle Count (override in parentheses - if present):	na	
Pump 2: on minutes (override in parentheses - if present):	na	
Pump 2: off hours (override in parentheses - if present):	na	
Pump 2: gallons per dose (override in parentheses - if present):	na	
Pump 2: Cycle Count (override in parentheses - if present):	640	
Pump 2: ETM hours (override in parentheses - if present):	na	

Drainfield: Pressure Bed 12' X 62.5'

This component was:	Partially Inspected	
Lateral lines flushed:	YES	
Average squirt height (if performed) (Feet, if other specify):	na	
Ponding Present:	NO	

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

Septic Check

Renew
2016

OP 149
P 31603

7/16/2013

6074 Keystone Rd
Milaca, MN 56353

320-983-2447
Fax: 320-983-2151



PROPERTY INFORMATION

Roger Olson
Location: 40663 236th Lane
Aitkin
Tax ID: 11-1-107200

Use: Residential, Single Family
System Design Flow: 450
GENERAL SYSTEM TYPE: MF Res Maint 2 NO TEST

Owner: Roger Olson

Mail To: Roger Olson
40663 236th Lane
Aitkin, MN
56431

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ONSITE SEWAGE SYSTEM INSPECTION REPORT

Fold
Here

Inspected: 05/23/2013 - Inspection Type: ROUTINE - Correction Status: All corrections made

Company:
Septic Check

Work Performed By:
Jared Deboer

Submitted 07/16/2013 by:
Brian Koski

COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

Replaced float and electrical outlet for pump at guest cabin.

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: Trash Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Partially Inspected
All required baffles in place (N/A = No baffles required):	YES
Effluent level within operational limits (if NO explain in comments)	YES
Compartment 1 Scum accumulation (Inches, if other specify):	n/a
Compartment 1 Sludge accumulation (Inches, if other specify):	n/a
Pumping recommended:	NO

TANK: Pump Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Partially Inspected
Compartment 1 Scum accumulation (Inches, if other specify):	n/a
Compartment 1 Sludge accumulation (Inches, if other specify):	n/a
Pumping recommended:	NO

Pump: Effluent Pump Pump Tank #1 Pump

This component was:	Partially Inspected
Controls functioning:	YES
Tested gallons per minute flow:	n/a

TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #2 Est.1350 gal.

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Partially Inspected
All required baffles in place (N/A = No baffles required):	YES
Effluent level within operational limits (if NO explain in comments)	YES
Compartment 1 Scum accumulation (Inches, if other specify):	n/a
Compartment 1 Sludge accumulation (Inches, if other specify):	n/a
Pumping recommended:	NO

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

Pump: Effluent Pump Trash Trap #2 Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	n/a	
Aerobic Treatment Unit: ATU, Manufacturer= Consolidated Treatment Systems - Multi-Flo FTP-0.5 500 GPD Multi-Flo		
Manufacturer: Consolidated Treatment Systems Model: Multi-Flo FTP-0.5		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments)	YES	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
ATU serviced per manufacturers requirements including cleaning of applicable filter(s):	YES	
Trash Compartment solids accumulation within operational limits per manufacturer (n/a = no trash compartment):	YES	
Aerobic Chamber solids accumulation within manufacturer operational limits (n/a = no aerobic chamber):	YES	
Clarifying Chamber solids accumulation within manufacturer operational limits (n/a = no clarifying chamber):	YES	
Pumping recommended:	NO	
TANK: Pump Tank Effluent 630 gallon		
Manufacturer: Local Manufacturer		
This component was:	Partially Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	n/a	
Compartment 1 Sludge accumulation (Inches, if other specify):	n/a	
Pumping recommended:	NO	
Pump: Effluent Pump Effluent Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	n/a	
Panel: Control - 2 Pumps Multi-Flo Panel		
This component was:	Partially Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	n/a	
Pump 1: off hours (override in parentheses - if present):	n/a	
Pump 1: gallons per dose (override in parentheses - if present):	n/a	
Pump 1: ETM hours (override in parentheses - if present):	n/a	
Pump 1: Cycle Count (override in parentheses - if present):	n/a	
Pump 2: on minutes (override in parentheses - if present):	n/a	
Pump 2: off hours (override in parentheses - if present):	n/a	
Pump 2: gallons per dose (override in parentheses - if present):	n/a	
Pump 2: Cycle Count (override in parentheses - if present):	n/a	
Pump 2: ETM hours (override in parentheses - if present):	n/a	
Drainfield: Pressure Bed 12' X 62.5'		
This component was:	Partially Inspected	
Lateral lines flushed:	NO	
Average squirt height (if performed) (Feet, if other specify):	n/a	
Ponding Present? If YES explain in comments:	NO	

Septic Check

6074 Keystone Rd
Milaca, MN 56353

320-983-2447
Fax: 320-983-2151

PROPERTY INFORMATION

Roger Olson
Location: 40663 236th Lane
Aitkin
Tax ID: 11-1-107200

Use: Residential, Single Family
System Design Flow: 450
GENERAL SYSTEM TYPE: MF Res 2 w test 5 yr

Owner: Roger Olson

Mail To: Roger Olson
40663 236th Lane
Aitkin, MN
56431

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ONSITE SEWAGE SYSTEM INSPECTION REPORT

Inspected: 01/16/2014 - Inspection Type: ROUTINE - Correction Status: No corrections made

Company:
Septic Check

Work Performed By:
Scott Shelito

Submitted 01/21/2014 by:
Ann Flann

COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

Alarm horn does not work.

GENERAL SITE & SYSTEM CONDITIONS

ONSITE SEWAGE SYSTEM INSPECTION DETAIL

TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Not Inspected	
All required baffles in place (N/A = No baffles required):		
Effluent level within operational limits (if NO explain in comments):		
Compartment 1 Scum accumulation (Inches, if other specify):		
Compartment 1 Sludge accumulation (Inches, if other specify):		
Pumping recommended:		

TANK: Pump Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Fully Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	skim	
Compartment 1 Sludge accumulation (Inches, if other specify):	6"	
Pumping recommended:	NO	

Pump: Effluent Pump Pump Tank #1 Pump

This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	

TANK: Trash Tank, Manufacturer= Local Manufacturer - Concrete #2 Est.1350 gal.

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Not Inspected	
All required baffles in place (N/A = No baffles required):		
Effluent level within operational limits (if NO explain in comments):		
Compartment 1 Scum accumulation (Inches, if other specify):		
Compartment 1 Sludge accumulation (Inches, if other specify):		
Pumping recommended:		

Pump: Effluent Pump Trash Trap #2 Pump

This component was:	Not Inspected	
Controls functioning:		
Tested gallons per minute flow:		

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

Aerobic Treatment Unit: ATU, Manufacturer= Consolidated Treatment Systems - Multi-Flo FTP-0.5 500 GPD Multi-Flo
Manufacturer: Consolidated Treatment Systems Model: Multi-Flo FTP-0.5

This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
ATU serviced per manufacturers requirements including cleaning of applicable filter(s):	YES	
Trash Compartment solids accumulation within operational limits per manufacturer (n/a = no trash compartment):	N/A	
Aerobic Chamber solids accumulation within manufacturer operational limits (n/a = no aerobic chamber):	YES	
Clarifying Chamber solids accumulation within manufacturer operational limits (n/a = no clarifying chamber):	YES	
Pumping recommended:	NO	

TANK: Pump Tank Effluent 630 gallon

Manufacturer: Local Manufacturer

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	

Pump: Effluent Pump Effluent Pump

This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	

Panel: Control - 2 Pumps Multi-Flo Panel

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	N/A	
Pump 1: off hours (override in parentheses - if present):	N/A	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	N/A	
Pump 1: Cycle Count (override in parentheses - if present):	N/A	
Pump 2: on minutes (override in parentheses - if present):	30 sec	
Pump 2: off hours (override in parentheses - if present):	20 min	
Pump 2: gallons per dose (override in parentheses - if present):	N/A	
Pump 2: Cycle Count (override in parentheses - if present):	379	
Pump 2: ETM hours (override in parentheses - if present):	N/A	

Drainfield: Pressure Bed 12' X 62.5'

This component was:	Fully Inspected	
Lateral lines flushed:	NO	
Average squirt height (if performed) (feet, if other specify):	N/A	
Ponding present? If YES explain in comments:	NO	

SAMPLING REPORT

1/21/2014

Location: 40663 236th Lane
Aitkin
11-1-107200

Owner: Roger Olson
Use: Single Family

Service Company:

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

01/16/2014 sample entered by :Ann Flann

Notes:

ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Effluent Pump Effluent Pump	Effluent	Flow	450 GPD	200.0

This report indicates certain characteristics of the sample taken at the time of visit. In no way is this report a guarantee of operation or future performance.

Septic Check

DP #149

2016 renewal

6074 Keystone Rd
Milaca, MN 56353

320-983-2447
Fax: 320-983-2151

PROPERTY INFORMATION

Roger Olson
Location: 40663 236th Lane
Aitkin
Tax ID: 11-1-107200

Use: Residential, Single Family
System Design Flow: 450
GENERAL SYSTEM TYPE: MF Res 2 w test 5 yr

Owner: Roger Olson

Mail To: Roger Olson
40663 236th Lane
Aitkin, MN
56431

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ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 12/01/2014 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company: Septic Check

Work Performed By: Scott Shelito

Submitted 12/02/2014 by: Angie Stafford

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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: Pump Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Fully Inspected
Compartment 1 Scum accumulation (Inches, if other specify):	0
Compartment 1 Sludge accumulation (Inches, if other specify):	7
Pumping recommended:	NO

Pump: Effluent Pump Pump Tank #1 Pump

This component was:	Fully Inspected
Controls functioning:	YES
Tested gallons per minute flow:	N/A

Aerobic Treatment Unit: ATU, Manufacturer= Consolidated Treatment Systems - Multi-Flo FTP-0.5 500 GPD Multi-Flo

Manufacturer: Consolidated Treatment Systems Model: Multi-Flo FTP-0.5

This component was:	Fully Inspected
Effluent level within operational limits (if NO explain in comments):	YES
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES
ATU serviced per manufacturers requirements including cleaning of applicable filter(s):	YES
Trash Compartment solids accumulation within operational limits per manufacturer (n/a = no trash compartment):	N/A
Aerobic Chamber solids accumulation within manufacturer operational limits (n/a = no aerobic chamber):	YES
Clarifying Chamber solids accumulation within manufacturer operational limits (n/a = no clarifying chamber):	YES
Pumping recommended:	NO

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

TANK: Pump Tank Effluent 630 gallon

Manufacturer: Local Manufacturer

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	
Pump: Effluent Pump Effluent Pump		
This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
Panel: Control - 2 Pumps Multi-Flo Panel		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	20 sec	
Pump 1: off hours (override in parentheses - if present):	30 min	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	N/A	
Pump 1: Cycle Count (override in parentheses - if present):	N/A	
Pump 2: on minutes (override in parentheses - if present):	N/A	
Pump 2: off hours (override in parentheses - if present):	N/A	
Pump 2: gallons per dose (override in parentheses - if present):	N/A	
Pump 2: Cycle Count (override in parentheses - if present):	1049	
Pump 2: ETM hours (override in parentheses - if present):	N/A	
Drainfield: Pressure Bed 12' X 62.5'		
This component was:	Fully Inspected	
Lateral lines flushed:	NO	
Average squirt height (if performed) (feet, if other specify):	N/A	
Ponding present? If YES explain in comments:	NO	

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

Septic Check

6074 Keystone Rd
Milaca, MN 56353

320-983-2447
Fax: 320-983-2151

PROPERTY INFORMATION

Roger Olson
Location: 40663 236th Lane
Aitkin
Tax ID: 11-1-107200

Use: Residential, Single Family
System Design Flow: 450
GENERAL SYSTEM TYPE: MF Res 2 w test 5 yr

Owner: Roger Olson

Mail To: Roger Olson
40663 236th Lane
Aitkin, MN
56431

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 07/11/2014 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:
Septic Check

Work Performed By:
Scott Shelito

Submitted 09/25/2014 by:
Angie Stafford

COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

GENERAL SITE & SYSTEM CONDITIONS

ONSITE SEWAGE SYSTEM INSPECTION DETAIL

TANK: Pump Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Fully Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	N/A	
Compartment 1 Sludge accumulation (Inches, if other specify):	N/A	
Pumping recommended:	NO	

Pump: Effluent Pump Pump Tank #1 Pump

This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	

Aerobic Treatment Unit: ATU, Manufacturer= Consolidated Treatment Systems - Multi-Flo FTP-0.5 500 GPD Multi-Flo

Manufacturer: Consolidated Treatment Systems Model: Multi-Flo FTP-0.5

This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
ATU serviced per manufacturers requirements including cleaning of applicable filter(s):	YES	
Trash Compartment solids accumulation within operational limits per manufacturer (n/a = no trash compartment):	N/A	
Aerobic Chamber solids accumulation within manufacturer operational limits (n/a = no aerobic chamber):	YES	
Clarifying Chamber solids accumulation within manufacturer operational limits (n/a = no clarifying chamber):	YES	
Pumping recommended:	NO	

TANK: Pump Tank Effluent 630 gallon

Manufacturer: Local Manufacturer

This component was:	Fully Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	N/A	
Compartment 1 Sludge accumulation (Inches, if other specify):	N/A	
Pumping recommended:	NO	

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

Pump: Effluent Pump Effluent Pump		
This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
Panel: Control - 2 Pumps Multi-Flo Panel		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	20 sec.	
Pump 1: off hours (override in parentheses - if present):	30 min.	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	N/A	
Pump 1: Cycle Count (override in parentheses - if present):	N/A	
Pump 2: on minutes (override in parentheses - if present):	N/A	
Pump 2: off hours (override in parentheses - if present):	N/A	
Pump 2: gallons per dose (override in parentheses - if present):	N/A	
Pump 2: Cycle Count (override in parentheses - if present):	790	
Pump 2: ETM hours (override in parentheses - if present):	N/A	
Drainfield: Pressure Bed 12' X 62.5'		
This component was:	Fully Inspected	
Lateral lines flushed:	NO	
Average squirt height (if performed) (feet, if other specify):	N/A	
Ponding present? If YES explain in comments:	NO	

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING
209 Second Street, NW Room# 100
Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372

*Need meter readings
and \$200 for 2017*

Past Due Renewal As Of: 5 /31/2016

Re: Operating Permit # 149
Zoning Permit # 31603
Parcel ID# 11-1-107200

Roger & June Olson

Dear Permittee:

This letter is to remind you that the Operating Permit for the septic system at the above mentioned parcel of land has expired. The enclosed Operating Permit was issued as part of the permit for your septic system and must be renewed.

The Operating Permit for the current renewal period has been enclosed. If there are no changes to the Operating Permit, please submit the following to the County Office:

- the signed Operating Permit Contract
- the \$100 permit renewal fee
- the results of performance and maintenance activities
- a table of your water usage

We have checked all boxes above for information we have received. Please note, only complete applications will be accepted.

If your designer finds the system is operating in conformance with the Operating Permit, please have him/her submit a letter requesting to have the Operating Permit renewed for a longer period or to request terminating the Operating Permit. Our Office will determine if this is possible.

The performance and life expectancy of this septic system is dependent on regular monitoring and maintenance of all parts of the system. Your compliance with the Operating Permit will ensure continued performance of the system. Failure to perform the monitoring and maintenance of this system could cause costly repairs and/or replacement of this system. In addition, failure to comply with the monitoring, maintenance and reporting of the septic system is a violation of the Aitkin County Subsurface Sewage Treatment System Ordinance and could be prosecuted by the County Attorney's Office.

All information required must be submitted to this Office ASAP. We are notifying you to give you sufficient time to contact your designer and make any necessary changes, have samples taken and tested, tanks pumped, and any other activities that were required to meet the requirements of your permit.

Please contact our office with any questions regarding the renewal of this permit.

Sincerely,

Aitkin County Planning & Zoning

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



3/17/2016

Roger & June Olson
40663 236th Lane
Aitkin, MN 56431-

Re: Operating Permit # 149
Zoning Permit #31603
Parcel ID#11-1-107200

Dear Permittee:

Enc Larson SVC provider 5 yr

This letter is to remind you that the Operating Permit for the septic system at the above mentioned parcel is due for renewal this year. The enclosed Operating Permit was issued as part of the permit for your septic system and must be renewed.

The Operating Permit for the current renewal period has been enclosed. If there are no changes to the Operating Permit, please submit the following to the County Office:

- the signed Operating Permit Contract
- the \$100 permit renewal fee
- the results of performance and maintenance activities
- a table of your water usage

We have checked all boxes above for information we have received. Please note, only complete applications will be accepted.

If your designer finds the system is operating in conformance with the Operating Permit, please have him/her submit a letter requesting to have the Operating Permit renewed for a longer period or to request terminating the Operating Permit. Our Office will determine if this is possible.

The performance and life expectancy of this septic system is dependent on regular monitoring and maintenance of all parts of the system. Your compliance with the Operating Permit will ensure continued performance of the system. Failure to perform the monitoring and maintenance of this system could cause costly repairs and/or replacement of this system. In addition, failure to comply with the monitoring, maintenance and reporting of the septic system is a violation of the Aitkin County's Subsurface Sewage Treatment System Ordinance and could be prosecuted by the County Attorney's Office.

All information required must be submitted to this Office by the expiration date referenced on your Operating Permit. We are notifying you to give you sufficient time to contact your designer and make any necessary changes, have samples taken and tested, tanks pumped, and any other activities that were required to meet the requirements of your permit.

Please contact our office with any questions regarding the renewal of this permit.

Sincerely,

Aitkin County Planning & Zoning

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



4/18/2017

Roger & June Olson
40663 236th Lane
Aitkin, MN 56431-

Re: Operating Permit # 149
Zoning Permit #31603
Parcel ID#11-1-107200

Dear Permittee:

This letter is to remind you that the Operating Permit for the septic system at the above mentioned parcel is due for renewal this year by May 31st . The enclosed Operating Permit was issued as part of the permit for your septic system and must be renewed.

The Operating Permit for the current renewal period has been enclosed. If there are no changes to the Operating Permit, please submit the following to the County Office:

- the signed Operating Permit Contract
- \$100 permit renewal fee (\$150 fee after May 31st)
- the results of performance and maintenance activities
- a table of your water usage

\$200 (2016 to 2017
fee)

We have checked all boxes above for information we have received. Please note, only complete applications will be accepted.

If your designer finds the system is operating in conformance with the Operating Permit, please have him/her submit a letter requesting to have the Operating Permit renewed for a longer period or to request terminating the Operating Permit. Our Office will determine if this is possible.

The performance and life expectancy of this septic system is dependent on regular monitoring and maintenance of all parts of the system. Your compliance with the Operating Permit will ensure continued performance of the system. Failure to perform the monitoring and maintenance of this system could cause costly repairs and/or replacement of this system. In addition, failure to comply with the monitoring, maintenance and reporting of the septic system is a violation of the Aitkin County's Subsurface Sewage Treatment System Ordinance and could be prosecuted by the County Attorney's Office.

All information required must be submitted to this Office by the expiration date referenced on your Operating Permit. We are notifying you to give you sufficient time to contact your designer and make any necessary changes, have samples taken and tested, tanks pumped, and any other activities that were required to meet the requirements of your permit.

Please contact our office with any questions regarding the renewal of this permit.

Sincerely,

Aitkin County Planning & Zoning

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



Past Due Renewal As Of: 5 /31/2017

6/5/2017

Roger & June Olson

40663 236th Lane

Aitkin, MN 56431-

Re: Operating Permit # 149

Zoning Permit # 31603

Parcel ID# 11-1-107200

This letter is to remind you that the Operating Permit for the septic system at the above mentioned parcel of land has expired. The enclosed Operating Permit was issued as part of the permit for your septic system and must be renewed.

The Operating Permit for the current renewal period has been enclosed. If there are no changes to the Operating Permit, please submit the following to the County Office:

- the signed Operating Permit Contract
- the \$100 permit renewal fee
- the results of performance and maintenance activities
- a table of your water usage

We have checked all boxes above for information we have received. Please note, only complete applications will be accepted.

If your designer finds the system is operating in conformance with the Operating Permit, please have him/her submit a letter requesting to have the Operating Permit renewed for a longer period or to request terminating the Operating Permit. Our Office will determine if this is possible.

The performance and life expectancy of this septic system is dependent on regular monitoring and maintenance of all parts of the system. Your compliance with the Operating Permit will ensure continued performance of the system. Failure to perform the monitoring and maintenance of this system could cause costly repairs and/or replacement of this system. In addition, failure to comply with the monitoring, maintenance and reporting of the septic system is a violation of the Aitkin County Subsurface Sewage Treatment System Ordinance and could be prosecuted by the County Attorney's Office.

All information required must be submitted to this Office ASAP. We are notifying you to give you sufficient time to contact your designer and make any necessary changes, have samples taken and tested, tanks pumped, and any other activities that were required to meet the requirements of your permit.

Please contact our office with any questions regarding the renewal of this permit.

Sincerely,

A handwritten signature in cursive script that reads "Kaleas".

Aitkin County Planning & Zoning

**Aitkin County Environmental Services
Planning and Zoning
209 Second Street NW
Room 100
Aitkin, MN 56431
Phone: 218-927-7342
Fax: 218-927-4372**



January 19, 2018

OLSON, ROGER & JUNE
40663 236TH LANE
AITKIN MN 56431

Parcel ID # 11-1-107200
Permit # 31603
Operating permit # 149

Dear Permittee:

According to our records your operating permit was not renewed in 2017. None of the renewal requirements of your operating permit were received.

You will receive a letter prior to May 31, 2018 outlining the renewal requirements of your operating permit. **If all renewal requirements are not received by May 31, 2018 this issue will result in the issuance of a certificate of noncompliance and/or a citation.**

If you have any questions, please contact us at (218) 927-7342.

Sincerely,

Kalea S.

Planning and Zoning
Environmental Services

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



*Sent add'l ltr 1-19-18
Must renew!*

2/26/2018

Roger & June Olson
40663 236th Lane
Aitkin, MN 56431-

*check w/
septic check*

Re: Operating Permit # 149
Zoning Permit #31603
Parcel ID#11-1-107200

*3/12/18 rec'd OP contract \$ 5100 -
mailed \$100 back*

Dear Permittee:

This letter is to remind you that the Operating Permit for the septic system at the above mentioned parcel is due for renewal this year by May 31st . The enclosed Operating Permit was issued as part of the permit for your septic system and must be renewed.

The Operating Permit for the current renewal period has been enclosed. If there are no changes to the Operating Permit, please submit the following to the County Office:

- the signed Operating Permit Contract
- \$100 permit renewal fee (\$150 fee after May 31st)
- the results of performance and maintenance activities
- a table of your water usage

We have checked all boxes above for information we have received. Please note, only complete applications will be accepted.

If your designer finds the system is operating in conformance with the Operating Permit, please have him/her submit a letter requesting to have the Operating Permit renewed for a longer period or to request terminating the Operating Permit. Our Office will determine if this is possible.

The performance and life expectancy of this septic system is dependent on regular monitoring and maintenance of all parts of the system. Your compliance with the Operating Permit will ensure continued performance of the system. Failure to perform the monitoring and maintenance of this system could cause costly repairs and/or replacement of this system. In addition, failure to comply with the monitoring, maintenance and reporting of the septic system is a violation of the Aitkin County's Subsurface Sewage Treatment System Ordinance and could be prosecuted by the County Attorney's Office.

All information required must be submitted to this Office by the expiration date referenced on your Operating Permit. We are notifying you to give you sufficient time to contact your designer and make any necessary changes, have samples taken and tested, tanks pumped, and any other activities that were required to meet the requirements of your permit.

Please contact our office with any questions regarding the renewal of this permit.

Sincerely,

Aitkin County Planning & Zoning

**Aitkin County Environmental Services
Planning and Zoning**

209 2nd St NW
Room 100
Aitkin MN 56431
Phone 218-927-7342
Fax 218-927-4372

March 12, 2018

ROGER & JUNE OLSON
40663 236TH LANE
AITKIN MN 56431


Operating permit # 149
Zoning permit # 31603
Parcel ID # 11-1-107200

Our office has received your signed operating permit contract and renewal fee of \$100.00. We cannot accept the \$100.00 renewal fee until a monitoring report by a licensed service provider and table of water usage has been received. Once you submit the monitoring report and table of water usage, please resubmit the \$100.00 renewal fee. All renewal requirements must be received by May 31, 2018. Failure to renew your operating permit can result in the issuance of a certificate of noncompliance or a citation.

If you have any questions or need additional help, please don't hesitate to contact us at 218-927-7342.

Sincerely,
Kalea S.
Planning & Zoning

Enclosed: check #26095 in the amount of \$100.00

1-4-19 emailed
septic check to
follow up.
2-27-19
Emailed Angie, owner
Canceled
Service w/ 
Septic Check 7-13-15.
NOT renewed in
2016, 2017, 2018

**AITKIN COUNTY ENVIRONMENTAL SERVICES
OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL RENEWAL**

ISSUANCE DATE: 5 /31/2018
RENEWAL PERIOD: ANNUALLY

OPERATING PERMIT #: 149
ZONING PERMIT #: 31603
PARCEL #: 11-1-107200

PERMITTEE: Roger & June Olson

TELEPHONE: (218) 678-3575

MAILING ADDRESS:
40663 236th Lane
Aitkin, MN 56431-

PROPERTY ADDRESS:
40663 236th Ln.
Aitkin, MN 56431

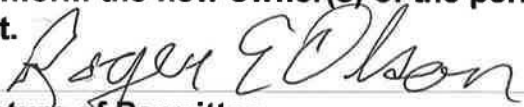
LEGAL DESCRIPTION: Lot 7, North Shore Beach


Aitkin County Environmental Services authorizes the Permittee to operate a wastewater treatment and dispersal system located on the above described property in accordance with the requirements of this permit.

This permit is effective on the issuance date identified above.

This permit and the authorization to treat and disperse from the above system is valid through the renewal period identified above. The Permittee is not authorized to discharge after the renewal period. The Permittee shall submit such information and forms as required by Aitkin County Environmental Services no later than thirty (30) days prior to the expiration date. When the required information is submitted and approved by Aitkin County Environmental Services, the permit may be renewed. This permit is not transferable from owner to owner.

I hereby certify with my signature as the permittee that I understand the provisions of this permit including the maintenance and monitoring requirements. I agree to indemnify and hold Aitkin County harmless from all loss, damages, costs and charges that may be incurred by use of this system and if I fail to comply with the provisions of this Operating Permit. If I sell this property during the life of the permit, I will inform the new owner(s) of the permit requirements and the need to renew the permit.


Signature of Permittee


Date

Signature of Permitting Authority

Date

If you have any questions regarding this permit, including the specific permit requirements, permit reporting or permit compliance status, please contact Aitkin County Environmental Services at 218-927-7342.

OP 149
 P# 31603

Septic Check

6074 Keystone Rd
 Milaca, MN 56353

320-983-2447
 Fax: 320-983-2151

Mail To: Roger Olson
 40663 236th Lane
 Aitkin, MN
 56431

PROPERTY INFORMATION

Roger Olson
 Location: 40663 236th Lane
 Aitkin
 Tax ID: 11-1-107200
 Use: Residential, Single Family
 System Design Flow: 450
 GENERAL SYSTEM TYPE: MF Res 2 w test 5 yr
 Owner: Roger Olson

Fold Here

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 05/11/2015 - Inspection Type: ROUTINE - Correction Status: Corrections in progress

Company:
 Septic Check

Work Performed By:
 Torrey Boser

Submitted 06/04/2015 by:
 Angie Stafford

Fold Here

COMMENTS & GENERAL INSPECTION NOTES

No Deficiencies Noted

Septic Check recommends that all the tanks be pumped out. Also the red cap on the multi-flo needs to be replaced, the inspection pipe at the North end of the drain field needs to be repaired. Customer had stated he saw surfacing effluent. I ran the pump to check for leaking in the drain field area, I did not see any. I believe the laterals were frozen and that was where the effluent was ejecting the water. There are dogs fenced inside the drain field and tanks area, I would recommend the dogs be moved to a different location.

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: Pump Tank, Manufacturer= Local Manufacturer - Concrete #1 Unknown Size

Manufacturer: Local Manufacturer Model: Concrete

This component was:	Fully Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	6"	
Compartment 1 Sludge accumulation (Inches, if other specify):	8"	
Pumping recommended:	YES	

Pump: Effluent Pump Pump Tank #1 Pump

This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	

Aerobic Treatment Unit: ATU, Manufacturer= Consolidated Treatment Systems - Multi-Flo FTP-0.5 500 GPD Multi-Flo

Manufacturer: Consolidated Treatment Systems Model: Multi-Flo FTP-0.5

This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
ATU serviced per manufacturers requirements including cleaning of applicable filter(s):	YES	
Trash Compartment solids accumulation within operational limits per manufacturer (n/a = no trash compartment):	YES	
Aerobic Chamber solids accumulation within manufacturer operational limits (n/a = no aerobic chamber):	YES	
Clarifying Chamber solids accumulation within manufacturer operational limits (n/a = no clarifying chamber):	YES	
Pumping recommended:	YES	

TANK: Pump Tank Effluent 630 gallon		
Manufacturer: Local Manufacturer		
This component was:	Fully Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	0	
Compartment 1 Sludge accumulation (Inches, if other specify):	8"	
Pumping recommended:	YES	
Pump: Effluent Pump Effluent Pump		
This component was:	Fully Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	N/A	
Panel: Control - 2 Pumps Multi-Flo Panel		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	20 MIN	
Pump 1: off hours (override in parentheses - if present):	30 HRS	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	N/A	
Pump 1: Cycle Count (override in parentheses - if present):	N/A	
Pump 2: on minutes (override in parentheses - if present):	N/A	
Pump 2: off hours (override in parentheses - if present):	N/A	
Pump 2: gallons per dose (override in parentheses - if present):	N/A	
Pump 2: Cycle Count (override in parentheses - if present):	1355	
Pump 2: ETM hours (override in parentheses - if present):	N/A	
Drainfield: Pressure Bed 12' X 62.5'		
This component was:	Fully Inspected	
Lateral lines flushed:	NO	
Average squirt height (if performed) (feet, if other specify):	N/A	
Ponding present? If YES explain in comments:	NO	

This report indicates certain characteristics of the onsite sewage system at the time of visit. In no way is this report a guarantee of operation or future performance.

SEPTIC SYSTEM REVIEW FOR
Roger Olson
Parcel # 11-1-107200
Operating permit #149

Property located in Hazelton Township

May 28, 2019

The above mentioned property has a water meter installed on it. On Aug 2018 the meter reading was 795,560. On May 2019 the meter reading was 848,460 with a difference of 49,300 gallons. So at 49,300 gallons divide by 270 days = 182 gallons per day average.

The system is set up for 450 gallons per day so I believe that we can put this system on a 5 year operating permit.

The tanks, effluent filter, pumps, floats, alarms and control panel will still be inspected ever year.

We have entered into a Maintenance, Monitoring and Inspection Contract with said property owner.

Sincerely,



Mark P. Ritter
Ritter Sewer & Excavating, Inc.

Analysis Report

May 31, 2019

REPORT TO:

Ritter Sewer & Excavating
 Mark Ritter
 34753 390th Place
 Aitkin MN 56431

INVOICE TO:

Ritter Sewer & Excavating
 Mark Ritter
 34753 390th Place
 Aitkin MN 56431

Date Rcvd-Brnd: 5/23/2019
 Time Rcvd-Brnd: 13:45

Sampled By: Mark P. Ritter
 Sample Type: WW
 Recv Temp°C: 3.0 on ice

LOCATION:

Roger Olson - Op#149

SITE / ANALYTE	Sample Date/Time	Analyzed Value	Units	Reporting Limit	Analytical Method	Analysis Date/Time	Analyst	Code #
Lift Tank to Drainfield	5/23/2019 @ 11:45							
Biochemical Oxygen Demand, 5 Day		3	mg/L	2	SM 5210 B-2011	5/24/19 10:31	CJS	020484
Fecal Coliform		100	MPN/100mL	1	COLILERT-18 (FECAL COLI.)	5/23/19 15:01	CJS	020484
Residue-Nonfilterable (TSS)		2.2	mg/L	1	USGS I-3765-85	5/28/19 14:00	CJS	020484

Approved By:



Date Approved: 5/31/2019

Sara Ahlers, Laboratory Director

A.W. Research Laboratories, Inc. is Certified by the Minnesota Department of Public Health and follows approved methods and procedures. Minnesota Laboratory Certification # 027-035-135. All data generated using certified methods noted as -C, all data generated using non-certified methods noted as -NC, and all analytes for which certification is unavailable - NA. The results above relate only to the samples tested. This report must not be reproduced, except in full, without the written approval of the laboratory. We appreciate your feedback, please email us at awlab@awlab.com with questions or comments. Thank you!

~End of Analysis Report~

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING
209 Second Street, NW Room# 100
Aitkin, Minnesota 56431

PH: (218) 927-7342
FX: (218) 927-4372



Past Due Renewal As Of: 5 /31/2019

8/29/2019

Roger & June Olson
40663 236th Lane
Aitkin, MN 56431-

Re: Operating Permit # 149
Zoning Permit # 31603
Parcel ID# 11-1-107200

This letter is to remind you that the Operating Permit for the septic system at the above mentioned parcel of land has expired. The enclosed Operating Permit was issued as part of the permit for your septic system and must be renewed.

If there are no changes to the Operating Permit, please submit the following to the County Office by October 15, 2019.

- the signed Operating Permit Contract
- the \$100 operating permit renewal fee
- the results of performance and maintenance activities
- a table of your water usage/meter reading

We have checked all boxes above for information we have received. Please note, only complete applications will be accepted.

If your designer finds the system is operating in conformance with the Operating Permit, please have him/her submit a letter requesting to have the Operating Permit renewed for a longer period or to request terminating the Operating Permit. Our Office will determine if this is possible.

The performance and life expectancy of this septic system is dependent on regular monitoring and maintenance of all parts of the system. Your compliance with the Operating Permit will ensure continued performance of the system. Failure to perform the monitoring and maintenance of this system could cause costly repairs and/or replacement of this system. In addition, failure to comply with the monitoring, maintenance and reporting of the septic system is a violation of the Aitkin County Subsurface Sewage Treatment System Ordinance and could be prosecuted by the County Attorney's Office.

All information required must be submitted to this Office by October 15, 2019. We are notifying you to give you sufficient time to contact your maintainer and make any necessary changes, have samples taken and tested, tanks pumped, and any other activities that were required to meet the requirements of your permit.

Please contact our office with any questions regarding the renewal of this permit.

Sincerely,

Aitkin County Planning & Zoning

Invoice #48801 (09/11/2019)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) App. # App-2019-005146, UID # 198860

Roger & June Olson

(218) 678-3575

na@na.com

40663 236th Lane, Aitkin, mn 56431

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

Charge		Cost	Quantity	Total	Note
Operating Permit Renewal added 09/11/2019 11:04 AM \$100		\$100.00	x 1	\$100.00	
Grand Total					
				Total	\$100.00
Payment #45767					
Method:	Credit Card or Electronic Check				
Date:	09/11/2019	Note:	Auto-generated by payment update		
Made By:					
Confirmed By:	Value Payment Systems				

**AITKIN COUNTY ENVIRONMENTAL SERVICES
OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL RENEWAL**

ISSUANCE DATE: 5 /31/2019
RENEWAL PERIOD: ANNUALLY

OPERATING PERMIT #: 149
ZONING PERMIT #: 31603
PARCEL #: 11-1-107200

PERMITTEE: Roger & June Olson

TELEPHONE: ⁶¹²⁻⁶⁷⁰⁻⁴⁴⁹⁸
~~(248) 678-3575~~

MAILING ADDRESS:
40663 236th Lane
Aitkin, MN 56431-

PROPERTY ADDRESS:
40663 236th Ln.
Aitkin, MN 56431

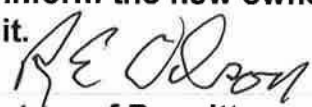
LEGAL DESCRIPTION: Lot 7, North Shore Beach

Aitkin County Environmental Services authorizes the Permittee to operate a wastewater treatment and dispersal system located on the above described property in accordance with the requirements of this permit.

This permit is effective on the issuance date identified above.

This permit and the authorization to treat and disperse from the above system is valid through the renewal period identified above. The Permittee is not authorized to discharge after the renewal period. The Permittee shall submit such information and forms as required by Aitkin County Environmental Services no later than thirty (30) days prior to the expiration date. When the required information is submitted and approved by Aitkin County Environmental Services, the permit may be renewed. This permit is not transferable from owner to owner.

I hereby certify with my signature as the permittee that I understand the provisions of this permit including the maintenance and monitoring requirements. I agree to indemnify and hold Aitkin County harmless from all loss, damages, costs and charges that may be incurred by use of this system and if I fail to comply with the provisions of this Operating Permit. If I sell this property during the life of the permit, I will inform the new owner(s) of the permit requirements and the need to renew the permit.


Signature of Permittee

Date


Signature of Permitting Authority

Date

If you have any questions regarding this permit, including the specific permit requirements, permit reporting or permit compliance status, please contact Aitkin County Environmental Services at 218-927-7342.

**MAINTENANCE SERVICE, MONITORING AND INSPECTION
CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM**

It is hereby agreed this 1st day of August, 2019 by and between
Mark P. Ritter (Inspector) and Roger Olson (client)

(Client) Name & Address Roger Olson

Street Address 40663 236th Lane

City, State, Zip Aitkin MN 56431

That in consideration of the payments provided herein, the Inspector shall provide services to perform Preventative Maintenance, Monitoring and Inspection of the Individual Sewage Treatment System (ISTS) located at the property described in the Aitkin County Operating Permit.

Each inspection includes an examination of the ISTS followed by a written report to the client. This inspection report shall contain recommendations for operation and maintenance for failure-preventative measures, if any are deemed appropriate by the inspector and a list of recommended corrective measures or replacement parts. The Inspector is authorized to submit a copy of the report to the Aitkin County Environmental Services Department.

This contract does not assume any responsibilities or obligations, which are normally the responsibilities of the Client, as related to parts or labor and does not extend to cover any costs that may be associated with any recommendations made under this contract.

The Inspector can only contract or subcontract for parts or labor after authorization. Billings for service calls shall be made on a case by case basis. This contract only covers maintenance, monitoring and inspection services per current Aitkin County Operating Permit and does not cover alarm calls of any kind.

The Inspector shall be provided access to the site and the system in order to perform the following services:

SEPTIC TANK AND LIFT STATIONS INSPECTION

(check the boxes needed to fill the requirements of the Operating Permit)

Check septic tank and compartments for solids buildup and general appearance. If necessary, have tanks pumped (cost of pumping is the responsibility of the client).

Check effluent filter for buildup and clean, if applicable.

Check pumping system, including control panel and floats.

Record and date the readings of the elapsed time meter and cycle counter(s), if applicable.

Check dosing settings (In the control panel, if applicable).

Other: _____

****If the septic tank or lift stations need pumping to be in compliance with the operating permit the cost of the pumping is the responsibility of the Client.**

TREATMENT DEVICE

Inspect pretreatment unit (aerobic tank, sand filter, etc.) per manufacturer's recommendations, if applicable.

Inspect and clean any parts per manufacturer's recommendations.

Inspect and clean laterals, if applicable.

Inspect the appearance of the wastewater inside the unit for color, turbidity and examination of odors.

Sample effluent per Operating Permit monitoring requirements.

(Cost of sampling and analysis is the responsibility of the Client)

Other: _____

DISPERSAL FIELD

Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)

If liquid level monitors are installed, levels will be observed and recorded.

Flush filters and clean cartridges, if applicable.

Check field control unit solenoid operations or manual control, if applicable.

Other: _____

In no event shall the Inspector be responsible for special or consequential damages, including but not limited to, loss of time, injury to personal property or any other consequential damages or incidental or economic loss due to equipment failure or for any other reason. This contract does not assume any responsibilities or obligations, which are normally, the responsibility of the Client or as, related to parts or labor and does not extend to cover any costs that may be associated with any recommendations made under this contract.

This contract shall be effective: Beginning August, 2019
and Ending August, 2023

Cost for Maintenance Service, Monitoring and Inspection Contract is:

\$ 150.00 /yr. For 5 years totaling \$ 750.00

The Inspector agrees to provide inspection, monitoring and routine maintenance service only under this contract. The Client remedies for breach of this contract shall be limited to refund of any of the amounts paid in advance for service. This contract may be renewed 30 days from the ending date.

Payment for all services shall be paid upon per invoicing

Client: Return copy

Inspector:

Sign: RE Olson

Sign: Mark P. Ritter

Print: Roger E Olson

Print: Mark P. Ritter

Date: 8-24-18

Date: Aug 19-2019

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



9/11/2019

Re: Operating Permit #149
Zoning Permit # 31603
Parcel #11-1-107200

Roger & June Olson
40663 236th Lane
Aitkin, MN 56431-

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2024 and the Operating Permit renewal period has been moved to a 5 YEAR based on the recommendation from your Operating and Maintenance provider.

Please adhere to your monitoring and maintenance contract including monitoring your water use. Failure to do so would violate the agreement to operate your system and could void the operating permit. You should contact your Operation and Maintenance provider directly with questions that you may have during the year.

Thank you for your good stewardship and we hope that your system continues to operate well, protecting groundwater for you and the environment.

Sincerely,

Shannon W.

Aitkin County Planning & Zoning