

147

ZONING PERMIT APPLICATION

Permit # 31604

FULL NAME Larry Jorgensen TELE # 218 927-2070

BIRTHDATE & DL #

MAIL ADDRESS P.O. Box 321, Aitkin mn 56431

911 ADDRESS 43492 State Hwy 210, Aitkin mn 56431

TOWNSHIP Aitkin

LEGAL DESCRIPTION ~~Parcel 20000~~ NESW 1/4 Sec 28, Twp 27N, Rng 27E

SECTION 28 TOWNSHIP 47 RANGE 27

(circle) RESIDENTIAL COMMERCIAL ACCESSORY NEW BUILDING ALTERATION

BUILDING CONTRACTOR AND LICENSE NUMBER:

SIZE OF ALL BUILDINGS COVERED BY THIS APPLICATION

OFFICE USE ONLY

DATE 5-14-04 APPROVE / DENY

PERMIT# ~~31604~~ 31604

PARCEL# 01-0-0607601

RECEIPT# 2674

CONFORMING SEPTIC

YES P# other NO (NEW)

COMMENTS: ① Residence 40x22, ④ 20x7' Deck (no roof)
 ② Other septic system w/ op
 ③ Garage 24x30

per Variance 31469V
 Lift Cease & Desist order RPC dated 4-2004 4-29-04

DESIGNER D. Niesen

DATA FOR SEWER CONSTRUCTION: INSTALLER R. Kern #BEDROOMS/GPD 2/300

DO NOT WRITE BELOW THIS LINE

ZONING DISTRICT & FLOOD PLAIN

ZONING DISTRICT SIL

LAKE/STREAM/RIVER NAME Poor Farm

LAKE/RIVER ID NUMBER 1-0184

LAKE/RIVER/STREAM CLASSIF. NE

PARCEL LOCATED IN FLOOD PLAIN? Y ___ N

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 100

PROPERTY LINE SETBACK (10-ft./ 20-ft.)

SETBACK TO ROAD R-O-W (30-ft. Twp. / 50-ft. Co., State, Fed.)

SETBACK TO BLUFF (30-ft.)

SEPTIC SYSTEM SETBACK DISTANCES

SETBACK TO STRUCTURES (10-ft. Tank / 20-ft. Drainfield)

OHW TO LAKE/RIVER

PROPERTY LINE SETBACK (10-ft.)

SETBACK TO ROAD R-O-W (10-ft.)

ATTACH COPY OF ELEVATION CERTIFICATES

SOIL BORINGS 2 SEPTIC DESIGN Other (Peat) GARBAGE DISP/HOT TUB

PERK RATES DEPTH TO RESTRICTING LAYER YES ___ NO ___

MIN. SIZE SEPTIC TANK 1000 MIN. SIZE PUMP TANK 500

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 

SIGNATURE APPLICANT/AGENT

200 + 250 + 50 + 150

\$ 500 FEE

RPC RECEIVED BY

4-29-04 DATE

EXPIRES IN ONE YEAR

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

SUPPLEMENTAL DATA FOR LAND USE PERMITS

Page 1 of 2

*** COMPLETE BOTH SIDES ***

A. PLANNING CHECKLIST (required):

- | | YES | NO | ??? |
|---|-------------------------------------|-------------------------------------|--------------------------|
| 1. Are you aware of setback requirements and will your project meet them? <i>Note: Setback distances are taken from any projection of the building (i.e. overhangs, eaves, decks, etc.)</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Have you taken in consideration locations for future buildings, septic systems, decks, driveways, etc? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Are there any lowlands or wetlands on or near the site project? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Is there a steep slope or bluff on or near the site?
(If yes, complete Section D) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Will the project involve the clearing of trees or shrubs within the Shore Impact Zone of a lake or river? (If yes, complete Section D) ... | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Will the project involve grading, filling or landscaping within the shoreland district of a lake or river? (If yes, complete Section D)..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Is your property in a floodplain?
<i>If it is, the lowest floor (which includes basement or crawl space, regardless of a dirt floor) must be one foot (1') above the 100-year flood elevation. A benchmark established by a registered surveyor or licensed engineer may be required before granting a land use permit.</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

B. PRE-EVALUATION INSPECTION REQUEST (required):

Defining and staking the property lines, road right-of-ways, septic sites, and wells are the responsibility of the property owner. In some cases, a registered survey may be required to verify setbacks before granting a permit.

ALL PROPOSED DEVELOPMENT REQUESTS MUST BE CLEARLY STAKED AT ALL FOUR CORNERS IF APPLICABLE, IF STAKES ARE NOT PRESENT OR VISIBLE IT MAY RESULT IN ADDITIONAL FEES OR A DELAY IN THE PERMIT PROCESS.

The undersigned hereby makes application for a pre-evaluation permit inspection, agreeing that all setback information and delineation of property lines, well location, road setbacks, and development corners have been properly marked in accordance with the standards and requirements of the Aitkin County Ordinances.

Telephone Number between the hours of 8:00 A.M. and 4:00 P.M. 218-927-2070

Landowner: LARRY TORJENSEN Date: 4-29-04

Address: PO Box 321
AITKIN MN 56431

LANDOWNER SIGNATURE: X 

If you have any questions please contact the Planning and Zoning office at (218) 927-7342
Ordinances and Publications are available **FREE** online at: www.co.aitkin.mn.us

C. Directions to your Property (required):

From a major intersection: _____

2 1/2 MILES WEST Hwy 210 FROM AITKIN

D. NATURAL LANDSCAPE PROTECTION PLAN:

Complete this section only if you were directed to in Section A OR if you are working near a lake or stream.

1. Description of proposed construction: REBUILD EXISTING HOME
VARIANCE RECEIVED
2. Existing vegetative cover (e.g., forested, grass, shrub, lawn, etc.)? _____
3. Setback from the Ordinary High Water Level (OHW) for proposed construction? 99
4. How much excavation or fill work is being done inside the Shore Impact Zone (SIZ)?
(If excavation or fill work greater than 10 cu yds is being done, supply copy of Site review from SWCD)*
(The SIZ: Mississippi River & NE Lakes = 75 feet, RD & GD lakes = 50 feet, other waters-see ordinance)
5. How much excavation or fill work is being done outside the Shore Impact Zone (SIZ)?
(If excavation or fill work greater than 50 cu yds is being done, supply copy of Site review from SWCD)*
6. What percent slope of the land currently exists on the construction site?
(If the percent slope is greater than 20%, supply copy of Site review from SWCD)*
7. How much clearing of trees and shrubs will be done inside the Shore Impact Zone (SIZ)?
(If vegetation will be cleared in the SIZ, supply copy of Site review from SWCD)*
8. How will erosion be controlled during construction? _____
9. What will be done after construction to control erosion? _____

I have read the above and I understand the Natural Landscape Protection Plan as prepared. I hereby agree to implement this plan as part of the Land Use Permit.

X [Signature] _____ Date 4/29/04 Zoning Official _____ Date _____

The Aitkin County Soil and Water Conservation District (SWCD)
130 Southgate Center, Aitkin MN 56431 - Telephone (218) 927-6565 or swcd@mlecmmn.net

Larry Johnson

*Reat filter
2 Reat pads
going in*

Trench and Bed Worksheet

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

1. AVERAGE DESIGN FLOW

- A. Estimated gpd (see figure A-1)
or measured x 1.5 (safety factor) = gpd
- B. Septic tank capacity gallons

Number of Bedrooms	Class I	Class II	Class III	Class IV
2	300	225	180	80% of
3	450	300	218	the
4	600	375	256	values
5	750	450	294	in the
6	900	525	332	Class I,
7	1050	600	370	II or II
8	1200	675	408	columns

2. SOILS (Site evaluation data)

- C. Depth to restricting layer = feet
- D. Maximum depth of system Item C - 3 ft = feet
- E. Texture Percolation rate mpi
- F. SSF ft²/gpd (see figure D-15)
- G. % Land slope %

Perc Rate mpi	Soil Texture	SSF sq ft/gpd
< 0.1 *	Coarse sand	0.83
0.1- 5	Medium sand	0.83
	Loamy sand	
0.1- 5**	Fine sand	1.67
6 - 15	Sandy loam	1.27
16 - 30	Loam	1.67
31 - 45	Silt loam, silt	2.00
46 - 60	Clay loam, sandy clay or silty clay	2.20
61 - 120***	Clay, sandy or silty clay	4.20
>120****		

* No trench >25% of total system
 ** Soil with >50% fine sand particles
 *** A mound must be used
 **** An other or performance system

Number of Bedrooms	Minimum Capacity	Capacity with Garb. Disp.	Capacity with Disp. and Lift
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

percolation rate (minutes/inch)	soil texture	linear feet / gallon / day
Faster than 0.1 *	Coarse Sand	0.28
0.1 to 5	Medium Sand	
	Loamy Sand	
0.1 to 5	Fine Sand **	0.6
6 to 15	Sandy Loam	0.42
16 to 30	Loam	0.56
31 to 45	Silt Loam	0.67
	Silt	
46 to 60	Clay Loam (CL)	0.74
	Sandy CL	
	Silty CL	
slower than 60***	Clay	
	Sandy Clay	
	Silty Clay	

* Soil too coarse for seepage treatment.
 ** No systems for rapidly permeable soils.
 *** Soil having 50% or more fine sand & very fine sand.
 **** Soil with too high a percentage of clay for installation of a standard in-ground system.

3. TRENCH OR BED BOTTOM AREA

H. For trenches with 6 inches of rock below the pipe:

A x F = 300 gpd x 1.27 ft/gpd = 381.0 ft²

I. For trenches with 12 inches of rock below the pipe:

A x F x 0.8 = 300 gpd x 1.27 ft/gpd x 0.8 = 304.8 ft²

J. For trenches with 18 inches of rock below the pipe:

A x F x 0.66 = 300 gpd x 1.27 ft/gpd x 0.66 = 251.5 ft²

K. For trenches with 24 inches of rock below the pipe:

A x F x 0.6 = 300 gpd x 1.27 ft/gpd x 0.6 = 228.8 ft²

L. For gravity beds with 6 or 12 inches of rock below the pipe;

1.5 x A x F = 1.5 x 300 gpd x 1.27 ft/gpd = 571.5 ft²

M. For pressure beds with 6 or 12 inches of rock below the pipe:

A x F = 300 gpd x 1.27 ft/gpd = 381.0 ft²

4. DISTRIBUTION (Check all that apply)

<input checked="" type="checkbox"/>	Bed (<6% slope)	<input type="checkbox"/>	Drop Boxes (any slope)	<input checked="" type="checkbox"/>	Rock
<input type="checkbox"/>	Trenches	<input type="checkbox"/>	Distribution Box (<3%)	<input type="checkbox"/>	Chamber
<input checked="" type="checkbox"/>	Pressure	<input type="checkbox"/>	Gravity	<input type="checkbox"/>	Gravelless

5. SYSTEM WIDTH, LENGTH AND VOLUME

M. Select width = 6.0 ft

N. If using rock, divide bottom area by width: (H, I, J or K) divided by P = lineal feet

381.0 ft² / 6.0 ft = 63.5 lineal feet

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 ft + 0.5 ft) x 381.0 ft² = 381.0 ft³

Volume in cubic yards = volume in cubic feet divided by 27

381.0 / 27 = 14.1 yd³

Weight of rock in tons = cubic yards times 1.4

14.1 x 1.4 = 19.8 tons

O. If using 10" Gravelless Pipe, length = Flow (A) x Gravelless SSF (see figure D-9)

300.0 gpd x [] ft/gpd = 0.0 lineal feet

P. If using a Chamber (H, I, J, K [based on height of chamber slats] divided by width of chamber in ft)

[] ft² / [] ft = #DIV/0! lineal feet

7. LAWN AREA

Q. Select trench spacing, center to center = 6 feet

R. Multiply trench spacing by lineal feet R x Q = sq. ft. of lawn area

6 x 63.5 = 381 ft²

8. LAYOUT

Select an appropriate scale; one inch = 40 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

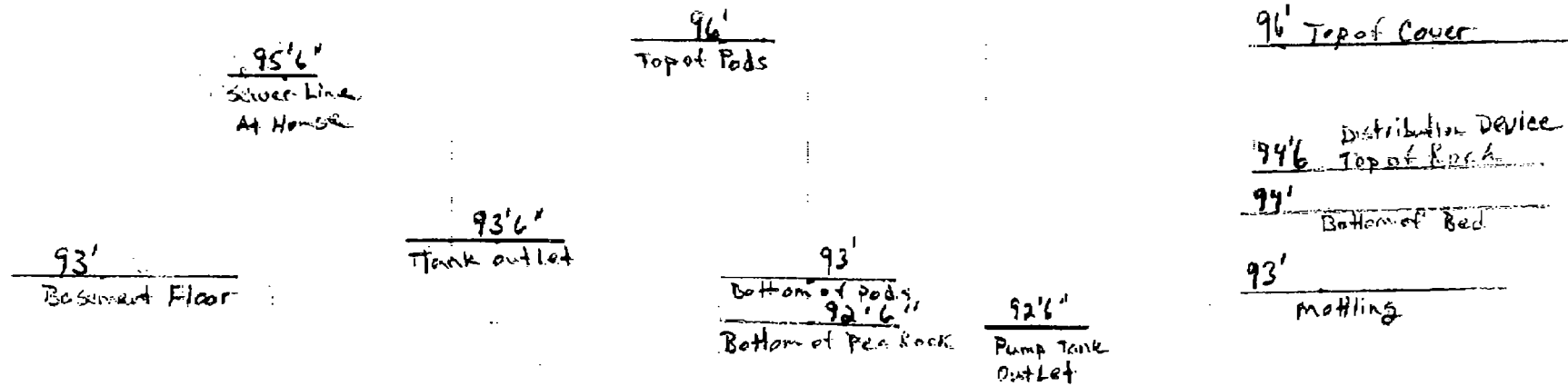
I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws

[Signature] (signature) 2581 (license #) 27 April 2004 (date)

Elevations - Larry Jorgensen Property

Bench Mark 100' Top of House Foundation

$\frac{1}{4}'' = 1'$



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Soil Borings Larry Jorgenson Property

Boring #1

0-12"	Loamy Sand Top Soil	10yr 3/2
12"-22"	Sandy Loam	10yr 5/6 w/ 5yr 4/4 Iron Stains From 12" → 14"
22"-30"	Sandy Loam	10yr 6/4
30"-42"	Sandy Loam	10yr 6/4 w/ 5yr 4/6 + 10yr 7/1 mottles
42"	Gravelly Sandy Loam Hard Pan	10yr 5/8

Boring #2

0-12"	Loamy Sand Top Soil	10yr 3/2
12"-22"	Sandy Loam	10yr 5/6 w/ 5yr 4/4 Iron Stains From 12" → 14"
22"-30"	Sandy Loam	10yr 6/4
30"-42"	Sandy Loam	10yr 6/4 w/ 5yr 4/6 + 10yr 7/1 mottles
42" →	Gravelly Sandy Loam Hard Pan	10yr 5/8



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Elevations - Larry Jorgensen Property

Bench Mark 100' Top of House Foundation

1/4" = 1'

95'6"
Sewer Line
At House

96'
Top of Peds

96' Top of Cover

94'6" Distribution Device
Top of HCCA

99'
Bottom of Bed

93'
Basement Floor

92'6"
Tank Outlet

93'
Bottom of Peds
92'6"
Bottom of Pea Bank

91'6"
Pump Tank
out Lot

93'
Mottling

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Soil Borings

Larry Jorgenson Property

Boring #1

0-12"	Loamy Sand	Top Soil	10yr 3/2
12"-22"	Sandy Loam		10yr 5/6 w/ 5yr 4/4
			Iron Stairs From 12" → 14"
22"-30"	Sandy Loam		10yr 6/4
30"-42"	Sandy Loam		10yr 6/4 w/ 5yr 4/6 • 10yr 7/1
			mottle's
42"	Gravelly Sandy Loam	Hard Pan	10yr 5/8

Boring #2

0-12"	Loamy Sand	Top Soil	10yr 3/2
12"-22"	Sandy Loam		10yr 5/6 w/ 5yr 4/4 Iron Stairs
			From 12" → 14"
22"-30"	Sandy Loam		10yr 6/4
30"-42"	Sandy Loam		10yr 6/4 w/ 5yr 4/6 • 10yr 7/1
			mottle's
42" →	Gravelly Sandy Loam	Hard Pan	10yr 5/8

PUMP SELECTION PROCEDURE

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: 37 gpm

2. Determine head requirements:

A. Elevation difference between pump and point of discharge.

8 feet

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

5 feet

C. Friction loss

1. Select pipe diameter 2 in

2. Enter Figure E-9 with gpm (1A or B) and pipe diameter (C1)

Read friction loss in feet per 100 feet from Figure E-9

Friction loss = 2.64 ft/100 ft of pipe

3. Determine total pipe length from pump discharge to soil system discharge point.

Estimate by adding 25 percent to pipe length for fitting loss.

Equivalent pipe length times 1.25 = total pipe length

18 ft x 1.25 = 20 feet

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

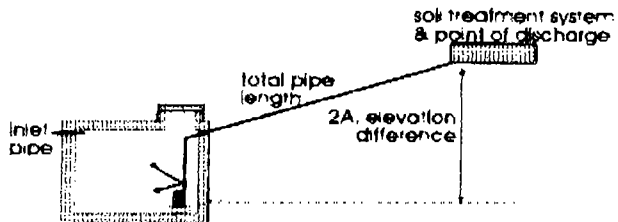
by the equivalent pipe length (C3) and divide by 100.

FL = $\frac{2.64 \text{ ft/100ft} \times 20 \text{ ft}}{100} = 0.5$ feet

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

8 ft + 5 ft + 0.5 ft

Total Head: 13.5 feet



Special Head Requirements	
Gravity Distribution	0ft
Pressure Distribution	5ft

E-9 Friction Loss in Plastic Pipe per 100 ft			
Flow Rate	nominal pipe diameter		
	1.5"	2.0"	3"
gpm			
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	0.3
40	8.91	2.64	0.39
45	11.07	3.28	0.48
50	13.46	3.99	0.58
55		4.76	0.7
60		5.6	0.82
65		6.48	0.95
70		7.44	1.09

3. Pump Selection

1. A pump must be selected to deliver at least 37 gpm (1A or B) with at least 13.5 feet of total head (2D).

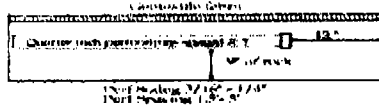
I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

[Signature] (signature) 2581 (license #) 27 April 2004 (date)

PRESSURE DISTRIBUTION SYSTEM

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

- Select number of perforated laterals: 2
- Select perforation spacing = 2.5 ft
- Since perforations should not be placed closer that 1 foot to the edge of the rock layer (see diagram), subtract 2 feet from the rock layer length
 $\frac{64}{\text{ft}} - 2 \text{ ft} = \underline{62} \text{ ft}$



- Determine the number of spaces between perforations. Divide the length (3) by perforation spacing (2) and round down to nearest whole number.
 $\text{Perforation spacing} = \frac{62 \text{ ft}}{2.5 \text{ ft}} = \underline{24}$
- 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.
 $\underline{24} \text{ spaces} + 1 = \underline{25} \text{ perforations/lateral}$

Perforation Spacing feet	Perforation Spacing			
	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

Head (feet)	Perforations diameter (inches)		
	3/16	7/32	1/4
1 ^a	0.42	0.56	0.74
2 ^b	0.59	0.80	1.04
5	0.94	1.26	1.65

a. Use 1.0 foot for single-family homes.
 b. Use 2.0 feet for anything else.

- A. Total number of perforations = perforations per lateral (5) times number of laterals (1).
 $\underline{25} \text{ perfs/lat} \times \underline{2} \text{ laterals} = \underline{50} \text{ perforations}$

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

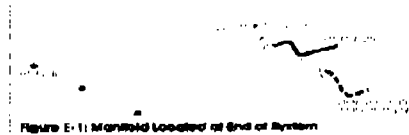
- Rock bed area = rock width (ft) x rock length (ft)
 $\underline{6} \text{ ft} \times \underline{64} \text{ ft} = \underline{384} \text{ ft}^2$
- Square foot per perforation = Rock Bed Area/number of perfs(6)
 $\frac{384.0 \text{ ft}^2}{50 \text{ perfs}} = \underline{7.7} \text{ ft}^2/\text{perf}$

- Determine required flow rate by multiplying the total number of perforations(6A) by flow per perforations (see figure E-6)
 $\underline{50} \text{ perfs} \times \underline{0.74} \text{ gpm/perf} = \underline{37.0} \text{ gpm}$

- 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

- 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 = 1 inches.



I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.
[Signature] (signature) 2581 (license #) 27 April 2004 (date)

3. TRENCH OR BED BOTTOM AREA

H. For trenches with 6 inches of rock below the pipe:

A x F = 300 gpd x 1.27 ft/gpd = 381.0 ft²

I. For trenches with 12 inches of rock below the pipe:

A x F x 0.8 = 300 gpd x 1.27 ft/gpd x 0.8 = 304.8 ft²

J. For trenches with 18 inches of rock below the pipe:

A x F x 0.68 = 300 gpd x 1.27 ft/gpd x 0.68 = 251.5 ft²

K. For trenches with 24 inches of rock below the pipe:

A x F x 0.6 = 300 gpd x 1.27 ft/gpd x 0.6 = 228.6 ft²

L. For gravity beds with 6 or 12 inches of rock below the pipe;

1.5 x A x F = 1.5 x 300 gpd x 1.27 ft/gpd = 571.5 ft²

M. For pressure beds with 6 or 12 inches of rock below the pipe;

A x F = 300 gpd x 1.27 ft/gpd = 381.0 ft²

4. DISTRIBUTION (Check all that apply)

<input checked="" type="checkbox"/>	Bed (<8% slope)	<input type="checkbox"/>	Drop Boxes (any slope)	<input checked="" type="checkbox"/>	Rock Chamber
<input type="checkbox"/>	Trenches	<input type="checkbox"/>	Distribution Box (<3%)	<input type="checkbox"/>	Gravelless
<input checked="" type="checkbox"/>	Pressure	<input type="checkbox"/>	Gravity		

5. SYSTEM WIDTH, LENGTH AND VOLUME

M. Select width = 6.0 ft

N. If using rock, divide bottom area by width: (H, I, J or K) divided by P = lineal feet

381.0 ft² / 6.0 ft = 63.5 lineal feet

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 ft + 0.5 ft) x 381.0 ft² = 381.0 ft³

Volume in cubic yards = volume in cubic feet divided by 27

381.0 / 27 = 14.1 yd³

Weight of rock in tons = cubic yards times 1.4

14.1 x 1.4 = 19.8 tons

O. If using 10" Gravelless Pipe, length = Flow (A) x Gravelless SSF (see figure D-9)

300.0 gpd x [] ft/gpd = 0.0 lineal feet

P. If using a Chamber (H, I, J, K) [based on height of chamber slats] divided by width of chamber in ft)

[] ft² / [] ft = #DIV/0! lineal feet

7. LAWN AREA

Q. Select trench spacing, center to center = 6 feet

R. Multiply trench spacing by lineal feet R x Q = sq. ft. of lawn area
6 x 63.5 = 381 ft²

8. LAYOUT

Select an appropriate scale; one inch = 40 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

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

[Signature] (signature) 281 (license #) 27 April 2004 (date)

Trench and Bed Worksheet

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

1. AVERAGE DESIGN FLOW

- A. Estimated 300 gpd (see figure A-1)
 or measured x 1.5 (safety factor) = 0 gpd
- B. Septic tank capacity 1000 gallons

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

2. SOILS (Site evaluation data)

- C. Depth to restricting layer = 2.5 feet
- D. Maximum depth of system Item C - 3 ft = -0.5 feet
- E. Texture Sandy Loam Percolation rate 6 - 15 mpi
- F. SSF 1.27 ft²/gpd (see figure D-15)
- G. % Land slope 0 %

Perc Rate mpi	Soil Texture	SSF sq ft/gpd
< 0.1*	Coarse sand	0.83
0.1- 5	Medium sand	0.83
	Loamy sand	
0.1- 5**	Fine sand	1.87
6 - 15	Sandy loam	1.27
16 - 30	Loam	1.87
31 - 45	Silt loam, silt	2.00
46 - 60	Clay loam, sandy clay or silty clay	2.20
61 - 120***	Clay, sandy or silty clay	4.20
>120****		

* No trench >25% of total system
 ** Soil with >50% fine sand particles
 *** A mound must be used
 **** An other or performance system

Number of Bedrooms	Minimum Capacity	Capacity with Gerb. Disp.	Capacity with Disp. and Lift
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

percolation rate (inches/inch)	soil texture	inches/feet/gallon/day
Factor than 0.1	Coarse Sand	0.20
0.1 to 5	Medium Sand	0.20
	Loamy Sand	
0.1 to 5	Fine Sand**	0.6
6 to 15	Sandy Loam	0.82
16 to 30	Loam	0.56
31 to 45	Silt Loam	0.67
	Silt	
46 to 60	Clay Loam (CL)	0.74
	Sandy CL	
	Silty CL	
	Clay	
slower than 60***	Sandy Clay	
	Silty Clay	

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

Home Services by Niesen

Individual Sewage Treatment System Design

Property Owner(s): Larry Jorgenson
Address: Site Address 43492 St. Hwy 210 Aitkin MN 56431
Parcel #: 01-0-068000
Legal description: T47 R27 S28
Date: 27 April 2004
Time: 9:30 am

Weather Conditions: Partly Cloudy
Check all that apply: shoreland dwelling: wellhead prot. _____
New const. _____ existing: class V _____

Soil Classification: Cutaway Loamy Fine Sand
Unsuitable/Disturbed/Compacted: yes _____ no
Type of Observation: Probe _____ Pit _____ Boring
Vegetation Type: Wet _____ Dry Unknown _____
Slope Form: 0%

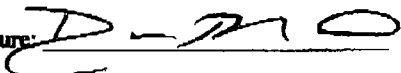
Drainage (select one) Good Fair _____ Ponding _____ Flooding _____
Flood Plain: yes _____ no
Elevation of Benchmark: 100 feet Location of Benchmark: top of building foundation
Depths Information: Standing water: _____ inches
Bedrock: _____ inches
Saturated Soil: 30" inches
Maximum Depth of System: 18" inches
Maximum Elevation of Bottom of System: 94" feet
Well casing Depth: Shallow feet

Soil Sizing Factor: 1.27
Linear Loading Rate: 6-15
Percolation Test Data: Was a perk test done? yes _____ no
Flow information: No. of Bedrooms: 2
Garbage Disposal: yes _____ no
Home Classification #: I II _____ III _____ IV _____
Design Flow: 300 gpd

I hereby certify that I have completed this work in accordance with applicable ordinances, rules and laws to the best of my abilities.

Name: Duane Niesen/ Home Services by Niesen License # 2581 Date: 27 April 2004

Address: 39045 650th Street Swatara MN 55785 Phone #: (218) 697-8104

Signature: 

AITKIN COUNTY ENVIRONMENTAL SERVICES

APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

PERMITTEE Larry Jorgensen PARCEL NUMBER 01-0-068000
 ADDRESS P.O. Box 321 309 Mimesak Ave N. Aitkin Mn. 56431
 LEGAL DESCRIPTION T47 R27 S28
 TELEPHONE # (218) 927-2070 GIS LOCATION _____

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM:
 (Attach ISTS site evaluation and design; estimated cost of system construction, operation, monitoring, service, component replacement, and management; anticipated system life, hydraulic and organic loading rates)

The system will be a Jacobson Precast 1600 compartment Tank with effluent pump through two vent filter pods then draining into a 630 gal precast pump tank and being pumped into a pressure bed

B. MONITORING PLAN AND REPORTING FREQUENCY:

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
FLOW	300 gpd	water meter on line into house from pump			
5-DAY BOD	140-220	pump tank	Annually	Effluent	
TOTAL NITROGEN	50-60	pump tank	Annually	Effluent	
TOTAL PHOSPHORUS					
TSS	45-65	pump tank	Annually	Effluent	
FATS, OILS AND GREASE					
FECAL COLIFORM					
SEPARATION DISTANCE					

Annual first years every 5 years after

Duane Nielsen of Home Services by Nielsen

will perform the monitoring of this septic system.

C. MAINTENANCE PLANS

PARAMETER	LOCATION	FREQUENCY
Buildup and Appearance	Septic Tank	Annually for first 2 years and once every 5 years after
Effluent Filter plugging	Septic Tank	Annually for first 2 years then owner responsibility thereafter
peat filter pods plugging	Peat Filters	Annually for first two years and once every five years thereafter

The maintenance will be performed in the Spring of 2005 and 2006 with an inspection and effluent sample being taken 2 weeks after installation

D. MITIGATION PLAN:

It is required that the Effluent be Tested After the system is in operation this requires testing of the effluent the cost is \$250.00 then after an effluent sample will again be taken the spring of 2005 and maintenance will be performed I recommend pumping the tank at that time also. In the Spring of 2006 we will again sample effluent and perform maintenance and we will pump again if needed

I hereby certify with my signature as the designer, that all data for the operating permit application is true and correct to the best of my knowledge. I agree to indemnify and hold Alkin County harmless from losses, damages, costs and charges that may be incurred by the County because of the information submitted with this application.

I don't think there will be anything to test, should check to know.
 I will bring to full service about April 5-6 PM

D. Nieer
Signature

2581
License Number

5 May 2003
Date

Duane Nieer
Name (please print)

39045 650th St
Address Sumner MN
55795

(218) 697-8104
Telephone #

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

It is hereby agreed this 5th day of May, 2004 by and between
Dwene Nielsen (Inspector) and Larry Jorgensen (client)

(Client) Name & Address

Larry Jorgensen

Street Address

P.O. Box 321 309 Minnesota Ave N.

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: Read water meter

**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: Sampling cost will be \$150⁰⁰ per year

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 2 weeks After system Installation 2004
and Ending Spring (April), 2006

Cost for Maintenance Service, Monitoring and Inspection Contract is:

\$250⁰⁰ /yr. For 3 years totaling \$ ~~750~~ 750⁰⁰
Two hundred fifty dollars *seven hundred fifty dollars*

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 At time of Inspection

Client:

Inspector:

Sign: [Signature]

Sign: [Signature]

Print: LARRY JOGENSEN

Print: Duane Niesen

Date: 5-6-04

Date: 5 May 2004

AITKIN COUNTY
CERTIFICATE OF COMPLIANCE/NOTICE OF NONCOMPLIANCE

This certificate of compliance/notice of noncompliance has been issued this _____ day of 6/3/05 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: _____
NE SW 255

Section 28 Township 47 Range 27 Lake Poor Farm

PERMIT NO. 31604 Owner Name Garry Jorgensen

Address P.O. Box 321 Aitkin, MN 56431

Installer Name Red Kern

Type of System Inspected other system w/ pre/pods
meter installed

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

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 Aitkin Date of Inspection 11/12/04 Permit Number 31604
 Owner Jerry Jurgensen Parcel Number 01-0-06760
 Project Address NE SW 1255 Installer Red Kern
 City _____ Zip Code _____ New _____ Repair

SETBACKS:

Buildings to tank(s) 60
 Buildings to drainfield 10'
 Well(s) 50' or 100' 50'
 Lake/Creek/Wetland 150'

SEPTIC TANKS:

Liquid capacity 1860 Combo
 Manufacturer & type Jac pre-cast
 Type of baffle Plastic
 Inspection pipes 1-4" 1-6"
 Manholes access 2
 No. & height of risers 30" 30"

MOUNDS:

Percent slope _____
 Upslope dike width _____
 Downslope dike width _____
 Sideslope dike width _____
 Drainfield rock below pipe _____
 Depth of sand below rock _____
 Perforation size & spacing _____
 Pipe size & spacing _____
 Dimensions of rock bed _____
 Dimensions of sand base _____
 Final cover _____

DIST. or DROP BOX & TYPE _____

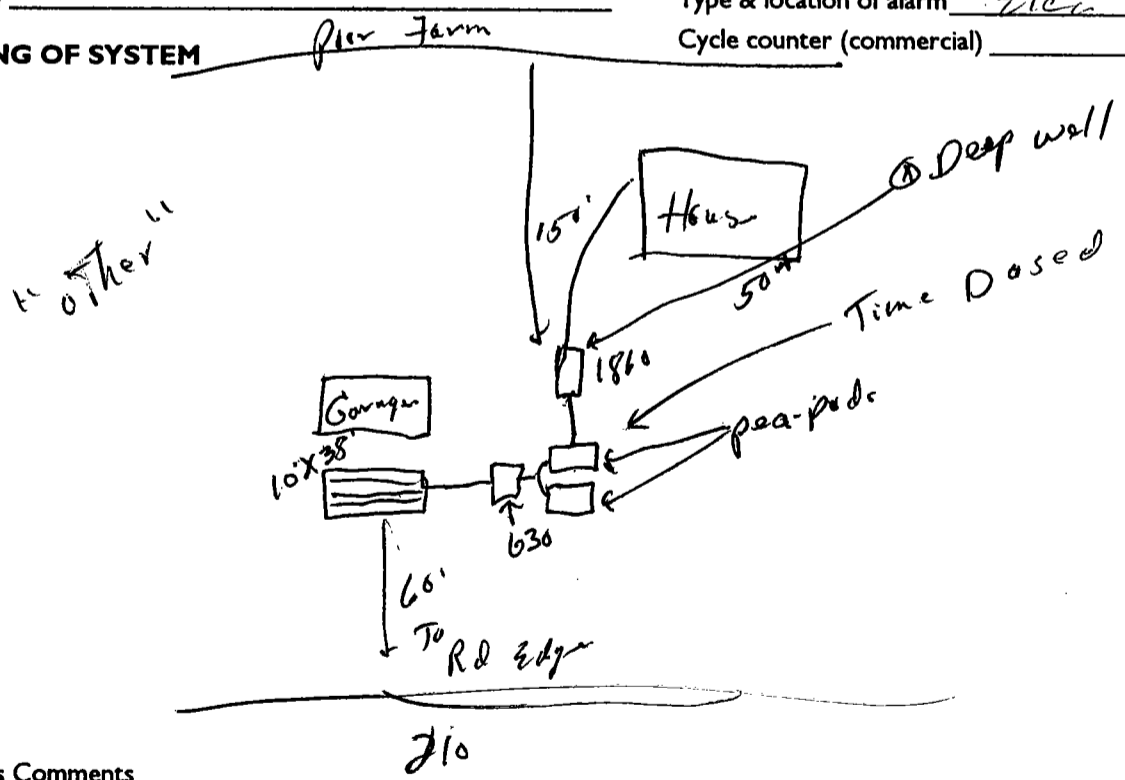
TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:

Trench depth 12"
 Trench length 38
 Trench bottom width 10
 Trench bottom level yes
 Trench spacing pressure
 Drainfield rock below pipe 9"
 Size of gravelless pipe _____
 Depth of backfill 12"
 Absorption area: square feet 380'
 lineal feet _____

PUMPS:

Tank capacity 630
 Tank manufacturer & type Jac pre-cast
 No. & height of risers 30"
 Pump manufacturer & model# Hyd-Zoller 98
 Horsepower & GPM 1/3 - 1/2 - 50"
 Feet of head 8
 Cycles per day 5
 Gallons per cycle 100
 Size of discharge line 2"
 Type of electrical hookup POST
 Type & location of alarm Elev
 Cycle counter (commercial) _____

DRAWING OF SYSTEM



Inspector's Comments _____

Corrective Action Required _____

Inspector's Signature [Signature] White-County
 Installer's Signature [Signature] Yellow-Applicant
 Pink-Installer

31604



AITKIN COUNTY ENVIRONMENTAL SERVICES

RECEIVED MAY 14 2004

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

OPERATING PERMIT #: 147

FEE: 50

PERMITTEE: Larry Jorgensen

PHONE: (218) 927-2070

ADDRESS: P.O. Box 321
Aitkin, MN 56431-

ZONING PERMIT # 31604

PARCEL #: 01-0-067601

ISSUE DATE: 5/ 3/04

RENEW DATE: 12/31/05


LEGALDESCRIPTION:


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

5/12/04
Date
5-14-04
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

System gravity flows into a 1860 combo tank with effluent pump charging 2 -Peat Filter then draining into a 630 gal pump tank into a pressure bed.

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
BOD5	< 220 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
Flow	300 gal / day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Total Nitrogen	< 60 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
TSS	< 65 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
Inspect Effluent Filters	Peat Filter	ANNUAL
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL
Surface Discharge	Dispersal System	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 Duane Niesen

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate, lower water usage, install pretreatment or increase absorption area. 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 *** Monitor after one year and every five years there-after.

Permit # 31404

July 1, 2009

To; Aitkin County Planning & Zoning

From; Larry Jorgensen

Subject: Operating Permit #147 Parcel ID# 01-0-067601

Please note that I no longer own the property as in recent days Grand Timber Bank of Mc Gregor has taken possession of the property. The property since the time of the permit HAS NOT been occupied as during that time the property was vacant and up for sale; hence your office just made notice of that until such time as it was to be sold wherein the permit and documentation, etc. would then take place upon residing on property Presumably this would continue to be your practice.

The contact at Grand Timber Bank is Jon Passer at PO Box 220, Mc Gregor, MN 55760 or 218-768-2410.

Regards,



Larry Jorgensen

AITKIN COUNTY ENVIRONMENTAL SERVICES

JUL 27 2009

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

OPERATING PERMIT #: 147

*Renewed to
3 year O.P.
Paid
check #
004733*

FEE: \$100

PERMITTEE: Grand Timber Bank

PHONE: (218) 927-2070

ADDRESS: P.O. Box 220
McGregor, MN 55760-

ZONING PERMIT # 31604

PARCEL #: 01-0-067601

ISSUE DATE: 5/31/2009

RENEW DATE: ~~5/31/2010~~

5/31/2012

LEGAL DESCRIPTION: NE-SW LESS N900 FT AND LESS 1.38 AC

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 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

Asst. V.P.

7-24-09
Date


Signature of Permitting Authority

8/24/09
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

System gravity flows into a 1860 combo tank with effluent pump charging 2 -Peat Filter then draining into a 630 gal pump tank into a pressure bed.

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 FREQUENC
BOD5	< 220 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
Flow	300 gal / day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Total Nitrogen	< 30 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
TSS	< 65 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
Inspect Effluent Filters	Peat Filter	ANNUAL
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL
Surface Discharge	Dispersal System	ANNUAL
Vegetative Cover	Dispersal System	ANNUAL

D. MONITORING AND REPORTING REQUIREMENTS:

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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 Duane Niesen

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate, lower water usage, install pretreatment or increase absorption area. 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 *** Monitor after one year and every five years there-after.

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW
Aitkin, Minnesota 56431

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



August 26, 2009

RE: Renewed Operating Permit

To Whom It May Concern:

This letter is to inform you that your Operating Permit (No. 147) has been renewed until May 31, 2012. You should note that all renewal dates that were formerly on December 31 have been moved forward to allow your Operation and Maintenance provider suitable time to complete the monitoring report.

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,

Pete Gansen
Aitkin County Planning & Zoning and
Environmental Services

GRAND TIMBER BANK

STRENGTH • TRUST • SECURITY

July 24, 2009

JUL 27 2009

Aitkin County Planning and Zoning
209 Second Street NW
Aitkin, MN 56431

01-0-067601

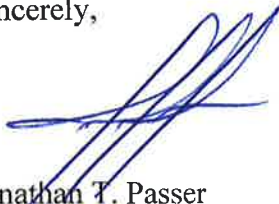
RE: Parcel 01-0-067601

Dear Pete:

This letter is to inform you of the situation for the above mentioned parcel. Grand Timber Bank has recently taken possession of this property and understands that there is a septic system on it that needs a permit. At this time no one is living in this home and no one has used this sewer up and to this point. We have spoken with Jerry Farley, a local sewer installer and designer, and he has stated that we should request that you move the one year permit to a three year permit as no one will be using this sewer unless the property is sold and at that point that person would be monitoring the sewer.

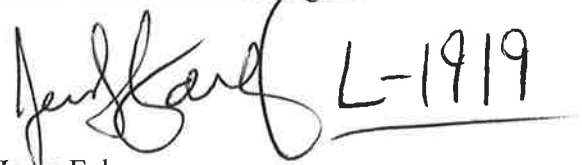
Enclosed you will find a check in the amount of \$100.00, as requested by Aitkin County, to cover the cost of renewing the permit. Please contact me to let me know if this is a visible plan. I can be reached at Grand Timber Bank at 218-768-2410.

Sincerely,



Jonathan T. Passer
Asst. Vice President

Sewer Installer and Designer



Jerry Faley

JTP:rs
Enclosure

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW
Aitkin, Minnesota 56431

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



August 26, 2009

RE: Renewed Operating Permit

To Whom It May Concern:

This letter is to inform you that your Operating Permit (No. 147) has been renewed until May 31, 2012. You should note that all renewal dates that were formerly on December 31 have been moved forward to allow your Operation and Maintenance provider suitable time to complete the monitoring report.

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,

Pete Gansen

Pete Gansen
Aitkin County Planning & Zoning and
Environmental Services

Septic Check

6074 Keystone Rd
Milaca, MN 56353

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

PROPERTY INFORMATION

Mike Patnode
Location: 43492 State Hwy 210
Aitkin
PARCEL (APN): 01-0-067601

Use: Residential, Single Family
System Design Flow: 300
GENERAL SYSTEM TYPE: Peat modules to pressure bed
Owner: Mike Patnode

Mail To: Mike Patnode
43492 State Hwy 210
Aitkin, MN
56431

Fold
Here

ONSITE SEWAGE SYSTEM INSPECTION REPORT

Inspected: 11/01/2012 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Fold
Here

COMMENTS & GENERAL INSPECTION NOTES**No Deficiencies Noted**

Peat was mixed by using a pitch fork. Effluent filter was cleaned.

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 12/05/2012 by:
Brian Koski

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: Septic Tank - 2 Compartment 1860 Gallon Combination Tank w/effluent filter		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments)	YES	
All required baffles in place (N/A = No baffles required):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	3"	
Compartment 1 Sludge accumulation (Inches, if other specify):	3"	
Compartment 2 Scum accumulation (Inches, if other specify):	0"	
Compartment 2 Sludge accumulation (Inches, if other specify):	0"	
Pumping recommended:	NO	
Media Filter: Peat Filter, Manufacturer= Bord na Mona - Puraflo Peat Filter 1		
Manufacturer: Bord na Mona Model: Puraflo		
This component was:	Fully Inspected	
Floats set and functioning properly:	YES	
Lateral lines flushed:	NO	
Pod bottom cleaned	NO	
Filter media at levels per manufacturer recommendations	YES	
Filter media condition per manufacturer recommendations	YES	
Average squirt height (if performed) (Feet, if other specify):	n/a	
Ponding Present:	NO	
Wastewater distributed equally throughout pod as designed	YES	
Sampling results within limits	YES	
Media Filter: Peat Filter, Manufacturer= Bord na Mona - Puraflo Peat Filter 2		
Manufacturer: Bord na Mona Model: Puraflo		
This component was:	Fully Inspected	
Floats set and functioning properly:	YES	
Lateral lines flushed:	NO	
Pod bottom cleaned	NO	
Filter media at levels per manufacturer recommendations	YES	
Filter media condition per manufacturer recommendations	YES	
Average squirt height (if performed) (Feet, if other specify):	n/a	
Ponding Present:	NO	
Wastewater distributed equally throughout pod as designed	YES	
Sampling results within limits	YES	
Panel: Control - 1 Pump Peat Dose Panel Time Dose		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	1 min	
Pump 1: off hours (override in parentheses - if present):	2 hours	
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):	5026	
Pump: Effluent Pump Peat Dose Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	n/a	
TANK: Pump Tank 630 Gallon Pump Tank		
This component was:	Partially 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 Drainfield Dose Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	n/a	
Drainfield: Pressure Bed 10' x 38' pressure Bed		
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

12/19/2012

Location: 43492 State Hwy 210
Aitkin
01-0-067601
Owner: Mike Patnode
Use: Single Family

Service Company:
Septic Check
6074 Keystone Rd
Milaca, MN 56353
320-983-2447
Laboratory: Pace An.

11/01/2012 sample entered by : Brian Koski

Notes: Recent water meter readings are as follows: 10/21/12 - 4813, 11/11/12 - 5026, 11/18/12 - 5090, 12/5/12 - 5246.

ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump Peat Dose Panel Time Dose	Effluent	Flow	300 GPD	91.4
Pump Tank 630 Gallon Pump Tank	Effluent	Total N	60 mg/l	54.5
Pump Tank 630 Gallon Pump Tank	Effluent	BOD	220 mg/l	Non-detect
Pump Tank 630 Gallon Pump Tank	Effluent	TSS	65 mg/l	15.0

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.



PH 31604

EXPERT SERVICE, LASTING VALUE

DEC 21 2012

12/19/2012

Aitkin County Environmental Services
209 Second Street NW
Aitkin, MN 56431

RE: Operating Permit for Parcel #, PID 01-0-067601, Permit # 147 ^{OP}

Mike Patnode,
43492 State Hwy 210
Aitkin, MN 56431

Aitkin County Environmental Services,

Septic Check has completed a service visit and sampled the effluent per the operating permit for the property owner listed above. The system meets all the requirements of the Aitkin County Operating Permit. Based on the sample results, the condition of the system, and the expected use of the system, I recommend that the operating permit renewal requirement be extended to every 5 years or eliminated indefinitely. Standard annual maintenance will still be completed for the property owner by Septic Check.

If Aitkin County has any questions regarding the performance or the results of the maintenance activities, please reach us at 888-983-2447.

Thank you,

Brian Koski

CC. Mike Patnode

12-21-12
per Terry - ok
to move to 5yr. * Note:
Septic Check must adhere
to annual maintenance

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



4/10/2019

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431-

Re: Operating Permit # 147
Zoning Permit #31604
Parcel ID#01-0-067601

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) + \$100 for 2018
- the results of performance and maintenance activities *NORMAL*
- a table of your water usage

We have checked all boxes above for information we have received. Please note, only *4220 GAL FROM MAY 2017 TIL NOW* 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
OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL RENEWAL**

House +
Store

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

OPERATING PERMIT #: 147
ZONING PERMIT #: 31604
PARCEL #: 01-0-067601

PERMITTEE: Michael & Gretchen Patnode

TELEPHONE:

MAILING ADDRESS:
43492 State Hwy 210
Aitkin, MN 56431-

PROPERTY ADDRESS:
43492 State Hwy 210
Aitkin, MN 56431

LEGAL DESCRIPTION: NE-SW LESS N900 FT AND LESS 1.38 AC

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.

x Michael Patnode
Signature of Permittee

5/30/19
Date

Shannon W.
Signature of Permitting Authority

5-30-19
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.

Invoice #47841 (05/30/2019)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) App. # App-2019-004554, UID # 197878

Aitkin Pet & Farm Supply Inc

(218) 927-7342

108 AirPark Drive, 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 05/30/2019 1:33 PM \$100		\$100.00	x 2	\$200.00	
Grand Total					
				Total	\$200.00
Payment #45143					
Method:	Check		6727		
Date:	05/30/2019	Note:	108 Air Park Drive, Aitkin		
Made By:	Aitkin Pet & Farm Supply Inc				
Confirmed By:	Shannon Westerlund				

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

Michael & Gretchen Patnode

43492 State Hwy 210

Aitkin, MN 56431-

Re: Operating Permit # 147

Zoning Permit # 31604

Parcel ID# 01-0-067601

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 \$150 late 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

AITKIN COUNTY ENVIRONMENTAL SERVICES

JUL 27 2009

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

OPERATING PERMIT #: 147

Renewal to

FEE: \$100

PERMITTEE: Grand Timber Bank

3 year O.P.

PHONE: (218) 927-2070

ADDRESS: P.O. Box 220
McGregor, MN 55760-

*Paid
check #
004733*

ZONING PERMIT # 31604

PARCEL #: 01-0-067601

ISSUE DATE: 5/31/2009

RENEW DATE: ~~5/31/2010~~

5/31/2012

LEGAL DESCRIPTION: NE-SW LESS N900 FT AND LESS 1.38 AC

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 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]
Signature of Permittee

7-24-09
Date

[Signature]
Signature of Permitting Authority

8/24/09
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

System gravity flows into a 1860 combo tank with effluent pump charging 2 -Peat Filter then draining into a 630 gal pump tank into a pressure bed.

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 FREQUENC
BOD5	< 220 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
Flow	300 gal / day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Total Nitrogen	< 30 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
TSS	< 65 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
Inspect Effluent Filters	Peat Filter	ANNUAL
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL
Surface Discharge	Dispersal System	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 Duane Niesen

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate, lower water usage, install pretreatment or increase absorption area. 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 *** Monitor after one year and every five years there-after.



PH 31604

EXPERT SERVICE, LASTING VALUE

DEC 21 2012

12/19/2012

Aitkin County Environmental Services
209 Second Street NW
Aitkin, MN 56431

RE: Operating Permit for Parcel #, PID 01-0-067601, Permit # 147 ^{OP}

Mike Patnode,
43492 State Hwy 210
Aitkin, MN 56431

Aitkin County Environmental Services,

Septic Check has completed a service visit and sampled the effluent per the operating permit for the property owner listed above. The system meets all the requirements of the Aitkin County Operating Permit. Based on the sample results, the condition of the system, and the expected use of the system, I recommend that the operating permit renewal requirement be extended to every 5 years or eliminated indefinitely. Standard annual maintenance will still be completed for the property owner by Septic Check.

If Aitkin County has any questions regarding the performance or the results of the maintenance activities, please reach us at 888-983-2447.

Thank you,

Brian Koski

CC. Mike Patnode

12-21-12
per Terry - ok * Note:
to move to 5yr.
Septic Check must adhere
to annual maintenance

Septic Check

6074 Keystone Rd
Milaca, MN 56353

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

PROPERTY INFORMATION

Mike Patnode
Location: 43492 State Hwy 210
Aitkin
PARCEL (APN): 01-0-067601

Use: Residential, Single Family
System Design Flow: 300
GENERAL SYSTEM TYPE: Peat modules to pressure bed
Owner: Mike Patnode

Mail To: Mike Patnode
43492 State Hwy 210
Aitkin, MN
56431

Fold
Here

ONSITE SEWAGE SYSTEM INSPECTION REPORT

Inspected: 11/01/2012 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Fold
Here

COMMENTS & GENERAL INSPECTION NOTES**No Deficiencies Noted**

Peat was mixed by using a pitch fork. Effluent filter was cleaned.

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 12/05/2012 by:
Brian Koski

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: Septic Tank - 2 Compartment 1860 Gallon Combination Tank w/effluent filter		
This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments)	YES	
All required baffles in place (N/A = No baffles required):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	3"	
Compartment 1 Sludge accumulation (Inches, if other specify):	3"	
Compartment 2 Scum accumulation (Inches, if other specify):	0"	
Compartment 2 Sludge accumulation (Inches, if other specify):	0"	
Pumping recommended:	NO	
Media Filter: Peat Filter, Manufacturer= Bord na Mona - Puraflo Peat Filter 1		
Manufacturer: Bord na Mona Model: Puraflo		
This component was:	Fully Inspected	
Floats set and functioning properly:	YES	
Lateral lines flushed:	NO	
Pod bottom cleaned	NO	
Filter media at levels per manufacturer recommendations	YES	
Filter media condition per manufacturer recommendations	YES	
Average squirt height (if performed) (Feet, if other specify):	n/a	
Ponding Present:	NO	
Wastewater distributed equally throughout pod as designed	YES	
Sampling results within limits	YES	
Media Filter: Peat Filter, Manufacturer= Bord na Mona - Puraflo Peat Filter 2		
Manufacturer: Bord na Mona Model: Puraflo		
This component was:	Fully Inspected	
Floats set and functioning properly:	YES	
Lateral lines flushed:	NO	
Pod bottom cleaned	NO	
Filter media at levels per manufacturer recommendations	YES	
Filter media condition per manufacturer recommendations	YES	
Average squirt height (if performed) (Feet, if other specify):	n/a	
Ponding Present:	NO	
Wastewater distributed equally throughout pod as designed	YES	
Sampling results within limits	YES	
Panel: Control - 1 Pump Peat Dose Panel Time Dose		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	1 min	
Pump 1: off hours (override in parentheses - if present):	2 hours	
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):	5026	
Pump: Effluent Pump Peat Dose Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	n/a	
TANK: Pump Tank 630 Gallon Pump Tank		
This component was:	Partially 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 Drainfield Dose Pump		
This component was:	Partially Inspected	
Controls functioning:	YES	
Tested gallons per minute flow:	n/a	
Drainfield: Pressure Bed 10' x 38' pressure Bed		
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

12/19/2012

Location: 43492 State Hwy 210
Aitkin
01-0-067601

Owner: Mike Patnode
Use: Single Family

Service Company:

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

Laboratory: Pace An.

11/01/2012 sample entered by : Brian Koski

Notes: Recent water meter readings are as follows: 10/21/12 - 4813, 11/11/12 - 5026, 11/18/12 - 5090, 12/5/12 - 5246.

ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump Peat Dose Panel Time Dose	Effluent	Flow	300 GPD	91.4
Pump Tank 630 Gallon Pump Tank	Effluent	Total N	60 mg/l	54.5
Pump Tank 630 Gallon Pump Tank	Effluent	BOD	220 mg/l	Non-detect
Pump Tank 630 Gallon Pump Tank	Effluent	TSS	65 mg/l	15.0

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.

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



6-21-17 Mark Ritter pulled sample.

4/18/2017

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431-

Re: Operating Permit # 147
Zoning Permit #31604
Parcel ID#01-0-067601

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

Kalea Suihkonen

OP 147

From: Mar Ritter [rittersewer@hotmail.com]
Sent: Wednesday, June 21, 2017 6:17 AM
To: Kalea Suihkonen
Subject: Re: Mike Patnode

Follow Up Flag: Follow up
Flag Status: Flagged

Kalea, We pulled sewage sample yesterday out at Mike Patnodes and checked over the system, when we get results i will get them to you. Can you send me all the septic info you have on the system. Thanks Mark

From: Mar Ritter <rittersewer@hotmail.com>
Sent: Thursday, June 15, 2017 3:07:14 PM
To: Kalea Suihkonen
Subject: RE: Mike Patnode

Not yet but we did. Talk about it soon

Sent from my Verizon, Samsung Galaxy smartphone

----- Original message -----

From: Kalea Suihkonen <kalea.suihkonen@co.aitkin.mn.us>
Date: 6/15/17 12:36 PM (GMT-06:00)
To: 'Mar Ritter' <rittersewer@hotmail.com>
Subject: Mike Patnode

Mark,

Have you been out to inspect Mike Patnode's system for his operating permit renewal? He called on the 26th and said he'd be having you out.

Thanks!

Kalea Suihkonen
Aitkin County Planning & Zoning
209 2nd St NW Rm 100
Aitkin, MN 56431
218-927-7342

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



2/26/2018

*MUST receive monitoring
and fully renew*

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431-

Re: Operating Permit # 147
Zoning Permit #31604
Parcel ID#01-0-067601

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 Second Street NW
Room 100
Aitkin, MN 56431
Phone: 218-927-7342
Fax: 218-927-4372**



June 18, 2018

PAST DUE RENEWAL AS OF 5/31/2018

PATNODE, MICHAEL R & GRETCHEN K
43492 STATE HWY 210
AITKIN MN 56431

Parcel ID # 01-0-067601
Permit # 31604
Operating permit # 147

Dear Permittee:

Your operating permit is overdue as of May 31, 2018.

You must submit the following by August 1, 2018:

- The signed operating permit contract
- \$150.00 late operating permit renewal fee
- Results of performance and maintenance activities by a licensed service provider
- Table of your water usage

If all renewal requirements are not received by August 1, 2018, this issue may result in the issuance of a citation and/or a notice of noncompliance. If you have any questions, please contact us at (218) 927-7342.

Sincerely,

Kalea S.

Planning and Zoning
Environmental Services

*7/23 MIKE called. Still need
all renewal info.*

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



April 11, 2019

PAST DUE RENEWAL AS OF 5/31/2018

PATNODE, MICHAEL R & GRETCHEN K
43492 STATE HWY 210
AITKIN MN 56431

Parcel ID # 01-0-067601
Permit # 31604
Operating permit # 147

Dear Permittee:

According to our records your operating permit was not renewed in 2017 and 2018. None of the renewal requirements of your operating permit were received.

Enclosed is a reminder letter outlining the annual renewal requirements of your operating permit for 2019.

This is the final notice you will receive. **If all renewal requirements are not received by May 31, 2019 this issue will result in the issuance of a citation and/or a notice of noncompliance.**

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

Sincerely,

Shannon W.

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



4/10/2019

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431-

Re: Operating Permit # 147
Zoning Permit #31604
Parcel ID#01-0-067601

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) + \$100 for 2018
- 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



Past Due Renewal As Of: 5 /31/2019

8/29/2019

Michael & Gretchen Patnode

43492 State Hwy 210

Aitkin, MN 56431-

Re: Operating Permit # 147

Zoning Permit # 31604

Parcel ID# 01-0-067601

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 \$150 late 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

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second St NW Room# 219

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



4/7/2020

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

Re: Operating Permit # 147
Zoning Permit #31604
Parcel ID#01-0-067601

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 (enclosed)
- \$150 permit renewal fee (\$200 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 & Zoning**

307 Second St NW, Room 219
Aitkin MN 56431
Phone (218) 927-7342
Fax (218) 927-4372
aitkinpz@co.aitkin.mn.us



April 8, 2020

PATNODE, MICHAEL R & GRETCHEN K
43492 STATE HWY 210
AITKIN MN 56431

Parcel ID # 01-0-067601
Zoning Permit # 31604
Operating Permit # 147

Dear Permittee:

According to our records, your operating permit was not renewed in 2019. The following renewal requirements of your operating permit were not received:

- The results of performance and maintenance activities
- A table of your monthly water usage

Enclosed is a letter outlining the renewal requirements of your operating permit for 2020. **If all renewal requirements are not received by May 31, 2020, this issue may result in the issuance of a certificate of noncompliance and/or a citation issued by our office, which requires a mandatory court appearance.**

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

Sincerely,

Shannon W.

Planning and Zoning
Environmental Services

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second St. NW, Room 219

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372

aitkinpz@co.aitkin.mn.us



9/3/2020

Past Due Renewal As O5 /31/2020

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

Re: Operating Permit # 147
Zoning Permit # 31604
Parcel ID# 01-0-067601

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 10, 2020. We have checked all boxes for information we have received. Please note, only complete applications will be accepted.

- the signed Operating Permit Contract
- \$200 operating permit fee (\$50 late fee applied)
- results of performance and maintenance activities
- a table of your water usage/meter readings

If your maintainer 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 May 1, 2020. 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

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second St NW Room# 219

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



4/6/2021

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

Re: Operating Permit # 147
Zoning Permit #31604
Parcel ID#01-0-067601

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 (enclosed)
- \$150 permit renewal fee (\$200 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 & ZONING

307 Second St. NW, Room 219

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372

aitkinpz@co.aitkin.mn.us



10/27/2021

Final Past Due Renewal As Of: 5 /31/2021

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

*moved from 5 year
to Annual Renewal.
Deficiencies to correct!*

Re: Operating Permit # 147
Zoning Permit # 31604
Parcel ID# 01-0-067601

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 November 30, 2021. We have checked all boxes for information we have received. Please note, only complete applications will be accepted.

- 11-10-21 the signed Operating Permit Contract
- \$200 Operating Permit Renewal Fee (\$50 late fee applied)
- 11-17-21 results of performance and maintenance activities
- a table of your water usage/meter readings

If your service provider/inspector finds the system is operating in conformance with the Operating Permit, please have them 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 November 30, 2021. We are notifying you to give you sufficient time to contact your service provider/inspector and make any necessary changes, have samples taken and tested, tanks pumped, and any other activities that are 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

SEPTIC SYSTEM REVIEW FOR
Michael Patnode
Parcel # 01-0-067601
Operating permit #147

Property located in Aitkin Township

November 15, 2021

The above mentioned property has an elapsed time meter installed on it. On August 2017 the meter reading was 240.34. On May 2021 the meter reading was 5,183.53 with a difference of 4,943.19 hrs. I believe that the meter is not working correctly and needs to be replaced. The sewage sample (see attached) are not coming in under where the parameter where set in the permit application also.

The system is not working properly and need some repairs done to it so I believe that we can put this system on a 1 year operating permit only.

Sincerely,



Mark P. Ritter
Ritter Sewer & Excavating, Inc.

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

System gravity flows into a 1860 combo tank with effluent pump charging 2 -Peat Filter then draining into a 630 gal pump tank into a pressure bed.

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this 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 FREQUENC
TSS	< 65 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
Total Nitrogen	< 30 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
BOD5	< 220 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
Flow	300 gal / day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY

✓ OK
 ✓ very high
 ✓ OK
 Don't have any

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
Inspect Effluent Filters	Peat Filter	ANNUAL
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL
Surface Discharge	Dispersal System	ANNUAL
Vegetative Cover	Dispersal System	ANNUAL

✓
 ✓
 ✓
 ✓
 ✓
 ✓

D. MONITORING AND REPORTING REQUIREMENTS:

Peat modes are holding water at some inspection dates!!
 Control panel to peat modes not working properly!!!
 Pump/alarm circuit to drainfield not working properly at some inspection dates also!!

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

Aitkin County Environmental Services
307 2nd Street NW, Room 219
Aitkin, MN 56431

The monitoring reports shall be signed by the Permittee. Copies are to be retained by the Permittee. Any sampling and laboratory testing procedures shall be performed in accordance with Standard Methods at a Minnesota Department of Health approved laboratory. All sampling and testing costs shall be the responsibility of the Permittee. Monitoring plans may be modified as necessary and reapproved by Aitkin County Environmental Services.

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.

The owner has secured the services of **Mark Ritter** as the Service Provider or qualified individual for this system. The Service Provider or qualified individual is hereby authorized to report the required monitoring data and routine maintenance service records to Aitkin County Environmental Services.

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate, lower water usage, install pretreatment or increase absorption area. 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.

Analysis Report

May 06, 2021

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: 4/29/2021
 Time Rcvd-Brnd: 13:14

Sampled By: Mark Ritter
 Sample Type: WW
 Recv Temp°C: 2.2 on ice

LOCATION:
 Mike Patnode

SITE / ANALYTE	Sample Date/Time	Analyzed Value	Units	Reporting Limit	Analytical Method	Analysis Date/Time	Analyst	Code #
Lift Station	4/29/2021 @ 12:15							
Biochemical Oxygen Demand, 5 Day		34.8	mg/L	2	HACH 10360 REV 1.2 (2011)	4/30/21 12:46	ND	045449
Fecal Coliform		21400	MPN/100mL	1	COLILERT-18 (FECAL COLI)	4/29/21 15:50	CJS	045449
Kjeldahl Nitrogen - Total		73	mg/L	0.2	EPA 351.2	5/5/21 11:02	MH	045449
Nitrate+Nitrite, as N		< 0.200	mg/L	0.02	EPA 353.2	4/30/21 09:30	MH	045449
Residue-Nonfilterable (TSS)		8.98	mg/L	1	USGS I-3765-85	5/3/21 11:22	SZ	045449
Total Nitrogen, Calculated		73	mg/L	0.2	CALCULATED	5/6/21 11:48	MH	045449

Approved By:



Date Approved: 5/6/2021

Sara Ahlers, Laboratory Director

A.W. Research Laboratories, Inc. is accredited by the MNELAP and follows approved methods and procedures. MN State Laboratory ID: 027-035-135 and EPA Lab Code: MN00098. All data generated using non-accredited methods noted as -NC, and all analytes for which accreditation 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~



Analysis Report

June 10, 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: 5/20/2019
Time Rcvd-Brnd: 13:03

Sampled By: Mark Ritter
Sample Type: WW
Recv Temp°C: 1.9 on ice

LOCATION:
Patnode OP #147

SITE / ANALYTE	Sample Date/Time	Analyzed Value	Units	Reporting Limit	Analytical Method	Analysis Date/Time	Analyst	Code #
Lift Tank before Bed	5/20/2019 @ 11:55							
Biochemical Oxygen Demand, 5 Day		31	mg/L	2	SM 5210 B-2011	5/22/19 10:15	CJS	020303
Fecal Coliform		9880	MPN/100mL	1	COLILERT-18 (FECAL COLI)	5/20/19 15:25	MH	020303
Residue-Nonfilterable (TSS)		6.8	mg/L	1	USGS I-3765-85	5/21/19 13:36	CJS	020303

Approved By:



Date Approved: 6/10/2019

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~

Analysis Report

June 29, 2017

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: 6/20/2017
Time Rcvd-Brnd: 10:51

Sampled By: Ritter Sewer
Sample Type: WW
Recv Temp°C: 3.4

LOCATION:
Mike Patnode

SITE / ANALYTE	Sample Date/Time	Analyzed Value	Units	Reporting Limit	Analytical Method	Analysis Date/Time	Analyst	Code #
Lift Tank after Patnode's	6/20/2017 @ 08:20							
Biochemical Oxygen Demand, 5 Day		13 D	mg/L	2	SM 5210 B-2011	6/21/17 09:48	CS	002528
Kjeldahl nitrogen - total		31.1	mg/L	0.2	EPA 351.2	6/29/17 09:37	AH	002528
Nitrate+Nitrite		11.6	mg/L	0.02	EPA 353.2	6/23/17 10:41	AH	002528
Residue-nonfilterable (TSS)		27	mg/L	1	USGS I-3765-85	6/20/17 11:14	CS	002528
Total Nitrogen, Calculated		42.7	mg/L	0.2	CALCULATED	6/29/17 13:46	SK	002528

D = Sample did not meet depletion requirements, results are an estimate.

Approved By: 
Stephanie Kuesel, Laboratory Manager

Date Approved: 6/29/2017

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
OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL RENEWAL**

ISSUANCE DATE: 5 /31/2021
RENEWAL PERIOD: 5 YEAR

OPERATING PERMIT # 147
ZONING PERMIT #: 31604
PARCEL #: 01-0-067601

PERMITTEE: Michael & Gretchen Patnode

TELEPHONE:

MAILING ADDRESS:
43492 State Hwy 210
Aitkin, MN 56431

PROPERTY ADDRESS:
43492 State Hwy 210
Aitkin, MN 56431

LEGAL DESCRIPTION: NE-SW LESS N900 FT AND LESS 1.38 AC

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

11/16/21
Date


Signature of Permitting Authority

11/16/21
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.

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second Street NW, Room 219

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



11/17/2021

Re: Operating Permit #147
Zoning Permit # 31604
Parcel #01-0-067601

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2022 and the Operating Permit renewal period has been moved to ANNUALLY based on the recommendation from your Service Provider.

Please adhere to your monitoring and maintenance contract including monitoring your water use. Your service provider noted a few deficiencies in the operation of the septic system that will need to be corrected prior to the next operating permit renewal: Peat modes are holding water, control panel to peat modes is not working properly, pump/alarm circuit to drainfield is not working properly, the water meter is not working correctly, and the total nitrogen level tested very high. Failure to do so would violate the agreement to operate your system and could void the operating permit. You should contact your Service Provider directly with questions that you may have during the year.

With these corrections we hope that your system will operate well, protecting groundwater for you and the environment.

Sincerely,

Aitkin County Planning & Zoning

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second St NW, Room 219
Aitkin, Minnesota 56431

(P): (218) 927-7342

(F): (218) 927-4372

(E): aitkinpz@co.aitkin.mn.us



8/2/2022

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

Re: Operating Permit # 147
Zoning Permit # 31604
Parcel ID# 01-0-067601

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 September 30th. 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 is enclosed. If there are no changes to the current Operating Permit, please submit all of the following to the County Office to renew the Operating Permit: (If any boxes below are checked, then we have received that item.)

- Signed Operating Permit (enclosed)
- \$150 permit renewal fee (a \$50 late fee will apply if not paid by 9/30/22)
- Monitoring and maintenance activities report by Service Provider
- A table of your water usage (*issues w/ time meter. see report*)

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 Service Provider 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 #56174 (09/16/2022)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) App. # App-2022-009539, UID # 206408

AITKIN PET & FARM SUPPLY INC

(218) 927-3112

108 AIRPARK DRIVE, AITKIN, MN 56431

Aitkin County Planning & Zoning / Environmental Services

307 Second St. NW Room 219

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 09/16/2022 9:55 AM \$150		\$150.00	x 1	\$150.00	
Grand Total				Total	\$150.00
Payment #50176					
Method:	Check		7558		
Date:	09/16/2022	Note:	OP 147 2022 RENEWAL		
Made By:	AITKIN PET & FARM SUPPLY INC				
Confirmed By:	Shannon Wiebusch				

SEPTIC SYSTEM REVIEW FOR
Michael Patnode
Parcel # 01-0-067601
Operating permit #147

Property located in Aitkin Township

September 29, 2022

The above mentioned property has an elapsed time meter installed on it. The lift pump and floats have been replaced in the last couple months but they are still having issues with the time meter and are waiting for a new one. So at this time we don't have any current meter readings to report. Sewage samples were pulled and sent off to the laboratory for testing as per guide lines set up in original contract.

The system is set up for 300 gallons per day so I believe that we can put this system on a 1 year operating permit until we get test results and water meter readings.

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

October 10, 2022

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: 9/29/2022
Time Rcvd-Brnd: 13:14

Sampled By: Mark P. Ritter
Sample Type: WW
Recv Temp°C: 0.9 on ice

LOCATION:
Mike Patnode

SITE / ANALYTE	Sample Date/Time	Analyzed Value	Units	Reporting Limit	Analytical Method	Analysis Date/Time	Analyst	Code #
Lift Station Before Drain Field 9/29/2022 @ 11:00								
Biochemical Oxygen Demand, 5 Day		38.7	mg/L	2	HACH 10360 REV 1.2 (2011)	9/30/22 10:08	CS	068092
Kjeldahl Nitrogen - Total		69.6	mg/L	0.2	EPA 351.2	10/3/22 09:25	MH	068092
Nitrate+Nitrite, as N		< 0.200	mg/L	0.02	EPA 353.2	10/5/22 09:45	MH	068092
Residue-Nonfilterable (TSS)		23.2	mg/L	1	USGS I-3765-85	9/30/22 15:41	TD	068092
Total Nitrogen, Calculated		69.6	mg/L	0.2	CALCULATED	10/5/22 10:06	MH	068092

Approved By:



Date Approved: 10/10/2022

Sara Ahlers, Laboratory Director

A.W. Research Laboratories, Inc. is accredited by the MNELAP and follows approved methods and procedures. MN State Laboratory ID: 027-035-135 and EPA Lab Code: MN00098. All data generated using non-accredited methods noted as -NC, and all analytes for which accreditation 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
307 Second Street NW Room# 219
Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



10/4/2022

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

Re: Operating Permit # 147
Zoning Permit # 31604
Parcel # 01-0-067601

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 9/30/2023 .

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



Aitkin County Environmental Services – Planning & Zoning

307 2nd Street NW, Room 219

Aitkin, MN 56431

(P) (218) 927-7342

(F) (218) 927-4375

(E) aitkinpz@co.aitkin.mn.us

July 31, 2023

Re: Operating Permit # 147

Zoning Permit # 31604

Parcel # 01-0-067601

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

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 by September 30, 2023. The enclosed Operating Permit was issued as part of the permit for your non-standard septic system and it must be renewed.

All information listed in the application enclosed must be submitted to our office by the expiration date. Incomplete applications will be returned. We are notifying you to give you sufficient time to contact your service provider/inspector for the monitoring/maintenance activities that are required under this operating permit.

If your service provider/inspector finds the system is operating in conformance with the Operating Permit, please have them submit a letter requesting to have term of the operating permit extended 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. 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 result in prosecution by the County Attorney's office.

Please contact our office with any questions regarding the renewal of this operating permit and your septic system.

Sincerely,

Shannon Wiebusch
Office Assistant
Aitkin County Planning & Zoning
shannon.wiebusch@co.aitkin.mn.us
218-927-7342

Enclosure: Operating Permit Renewal Application



Invoice #58835 (10/05/2023)

Misc. Receipt Permit # 2023-1019, App. # App-2023-001166, UID # 209151

AITKIN PET & FARM SUPPLY INC

(218) 927-3112

108 AIR PARK DRIVE, AITKIN, MN 56431

Aitkin County Planning & Zoning / Environmental Services

307 Second St. NW Room 219

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 10/05/2023 2:11 PM	\$150.00	x 1	\$150.00	
Grand Total			Total	\$150.00

Payment #51703

Method: Check

7880

Date: 10/05/2023

Note: OP 147 2023 RENEWAL

Made By: AITKIN PET & FARM SUPPLY INC

Confirmed By: Shannon Wiebusch

**Aitkin County Environmental Services
Planning & Zoning**

307 Second St. NW Room 219
Aitkin, MN 56431
218-927-7342
aitkinpz@co.aitkin.mn.us

**Subsurface Sewage Treatment Sys
Operating Permit Renewal Application**

Use this application to renew an operating p

Operating Permit #	147	Zoning Permit #	31604		
Issuance Date:	9/30/2023	Expiration Date:	9/30/2023	Renewal Term:	ANNUAL

Site Information

Property ID:	01-0-067601				
Property Address:	43492 State Hwy 210	City:	Aitkin	Zip:	56431
Service Provider or Inspector Name:	Mark Ritter	License #:			

Contact Information

Permittee Name:	Michael & Gretchen Patnode				
Mailing Address:	43492 State Hwy 210	City:	Aitkin	State:	MN
Email:		Phone:		Zip:	56431

Include with this completed renewal application the following items:

- Table of Water Usage (Flow Monitoring Report)
- Maintenance & Monitoring Report by your Service Provider/Inspector
- Renewal Fee: **\$150** Due Date: **9/30/2023** Please make check payable to: Aitkin County

Notice of Late Fee: If your completed application and renewal fee are not received or postmarked by the date, add a \$50.00 late fee.

Monitoring Protocol

Any sampling and laboratory testing procedures shall be performed in accordance with the proprietary treatment product's protocol Standard Methods, and at a Minnesota Department of Health approved laboratory. Results shall be submitted to the permitting authority at: Aitkin County Environmental Services, 307 2nd St NW, Room 219, Aitkin, MN 56431 no later than the expiration date listed.

Contingency Plan

In the event the wastewater treatment system does not meet required performance requirements as contained in this operating permit, the owner shall notify Aitkin County Environmental Services within thirty (30) days of receiving non-compliant information. The owner is responsible to obtain the services of a Minnesota Pollution Control Agency (MPCA) licensed Service Provider or other qualified inspector to complete the required corrective measures.

Authorization

Aitkin County Environmental Services authorizes the Permittee to operate a wastewater treatment and dispersal system at the location named above in accordance with the requirements of this operating permit, attached Management Plan and contract with the S


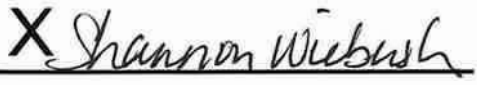
named above in accordance with the requirements of this operating permit, attached management plan and contract with the Service Provider/Inspector.

This permit is effective on the issuance date and term identified above. This permit and the authorization to treat and disperse wastewater shall expire on the expiration date identified above. The Permittee is not authorized to discharge after the above date of expiration. The Permittee shall submit monitoring and maintenance information on forms as required by Aitkin County Environmental Services prior to the above date of expiration for operating permit renewal. If not renewed within ninety (90) calendar days of the expiration date, it may be required that the system be abandoned in accordance with MN Rule 7080.2500. This permit is not transferable as to person or place.

The owner is required to obtain the services of a Minnesota Pollution Control Agency (MPCA) licensed and trained: 1) Service Provider or Inspector to provide ongoing system operation, maintenance, and monitoring and 2) Maintainer to pump the system's sewage and components. The owner is responsible to provide the name of the Service Provider or Inspector business prior to the issuance of this operating permit. The owner has secured the services of **Mark Ritter** as the Service Provider or Inspector for this system. The Service Provider or Inspector is hereby authorized to provide the required monitoring data and routine maintenance service records to both Aitkin County Environmental Services.

[For systems that generate high strength wastewater, the following items should be added to the operating permit: "If there is a change of use within the facility (i.e., change in menu, increase in food capacity, change in water use fixtures, etc.), the permittee is required to notify Aitkin County Environmental Services and the Service Provider before any changes occur. Changes to the facility that could potentially impact performance of the wastewater treatment and dispersal system shall not take place until appropriate evaluations have been completed."]

I hereby certify with my signature as the Permittee that I understand the provisions of the wastewater treatment and dispersal system operating permit including 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 the use of this system. If I fail to comply with the provisions of this operating permit, I understand that penalties may be issued. If I sell this property during the life of the permit, I will inform the new owner of the permit requirements and the need to renew the operating permit.

Permittee (please print):		Permitting Authority (please print):	Shannon Wiebush / P2
Title:	Date:	Title:	office Assistant Date: 9-29-23
Permittee Signature:			Permitting Authority Signature:
	Permittee Signature		
			Aitkin County Representative Signature

SEPTIC SYSTEM REVIEW FOR
Mike Patnode
Parcel # 01-0-067601
Operating permit #147

Property located in Aitkin Township

September 28, 2023

The above mentioned property has an elapsed timer installed on it. On Sept of 2022 the meter reading was 0 hour .17 hundredths. On Sept of 2023 the meter reading was 5 hour 67 hundredths with a difference of 330 minute's. So at 50 gallon per minute x 330 minutes= 16,500 gallons divided by 365 days =45 gallons per day average. Sewage sample where pulled and sent off to the laboratory for testing (we don't have results as of yet). Once results are received we will send into county.

The system is set up for 300 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.

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

System gravity flows into a 1860 combo tank with effluent pump charging 2 -Peat Filter then draining into a 630 gal pump tank into a pressure bed.

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this 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
TSS	< 65 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
Total Nitrogen	< 30 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
BOD5	< 220 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
Flow	300 gal / day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY OK ✓

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY	
Flow	Water Meter	MONTHLY	OK ✓
Inspect Effluent Filters	Peat Filter	ANNUAL	OK ✓
Pumps, Floats & Alarms	Pump Chamber	ANNUAL	OK ✓
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL	OK ✓
Surface Discharge	Dispersal System	ANNUAL	none ✓
Vegetative Cover	Dispersal System	ANNUAL	good ✓

D. MONITORING AND REPORTING REQUIREMENTS:

~~Talk~~
~~Air~~
~~Toll~~ ~~for Gauge add, that~~
 1 min pump down

Patnode

June 20-2017 Mark Rth

~~999819~~
~~236.60 h~~
~~2 hours off~~
~~1 min on~~

old readings
with
bad meter

Sept. 29. 22

~~999822~~
~~5318.83 H10~~

Sept. 28. 22

~~7254.95~~
~~999822~~
 5.67 on 1:ft pump

New meter
↓

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second Street NW, Room 219

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



10/19/2023

Re: Operating Permit #147
Zoning Permit # 31604
Parcel #01-0-067601

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 9/30/2028 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,

A handwritten signature in black ink that reads "Shannon W." in a cursive style.

Aitkin County Planning & Zoning



Aitkin County Environmental Services – Planning & Zoning

307 2nd Street NW, Room 219

Aitkin, MN 56431

(P) (218) 927-7342

(F) (218) 927-4375

(E) aitkinpz@co.aitkin.mn.us

July 31, 2023

Re: Operating Permit # 147

Zoning Permit # 31604

Parcel # 01-0-067601

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

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 by September 30, 2023. The enclosed Operating Permit was issued as part of the permit for your non-standard septic system and it must be renewed.

All information listed in the application enclosed must be submitted to our office by the expiration date. Incomplete applications will be returned. We are notifying you to give you sufficient time to contact your service provider/inspector for the monitoring/maintenance activities that are required under this operating permit.

If your service provider/inspector finds the system is operating in conformance with the Operating Permit, please have them submit a letter requesting to have term of the operating permit extended 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. 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 result in prosecution by the County Attorney's office.

Please contact our office with any questions regarding the renewal of this operating permit and your septic system.

Sincerely,

Shannon Wiebusch
Office Assistant
Aitkin County Planning & Zoning
shannon.wiebusch@co.aitkin.mn.us
218-927-7342

Enclosure: Operating Permit Renewal Application



Invoice #58835 (10/05/2023)

Misc. Receipt Permit # 2023-1019, App. # App-2023-001166, UID # 209151

AITKIN PET & FARM SUPPLY INC

(218) 927-3112

108 AIR PARK DRIVE, AITKIN, MN 56431

Aitkin County Planning & Zoning / Environmental Services

307 Second St. NW Room 219

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 10/05/2023 2:11 PM	\$150.00	x 1	\$150.00	
Grand Total			Total	\$150.00

Payment #51703

Method: Check

7880

Date: 10/05/2023

Note: OP 147 2023 RENEWAL

Made By: AITKIN PET & FARM SUPPLY INC

Confirmed By: Shannon Wiebusch

**Aitkin County Environmental Services
Planning & Zoning**

307 Second St. NW Room 219
Aitkin, MN 56431
218-927-7342
aitkinpz@co.aitkin.mn.us

**Subsurface Sewage Treatment Sys
Operating Permit Renewal Application**

Use this application to renew an operating p

Operating Permit #	147	Zoning Permit #	31604		
Issuance Date:	9/30/2023	Expiration Date:	9/30/2023	Renewal Term:	ANNUAL

Site Information

Property ID:	01-0-067601				
Property Address:	43492 State Hwy 210	City:	Aitkin	Zip:	56431
Service Provider or Inspector Name:	Mark Ritter	License #:			

Contact Information

Permittee Name:	Michael & Gretchen Patnode				
Mailing Address:	43492 State Hwy 210	City:	Aitkin	State:	MN
Email:		Phone:		Zip:	56431

Include with this completed renewal application the following items:

- Table of Water Usage (Flow Monitoring Report)
- Maintenance & Monitoring Report by your Service Provider/Inspector
- Renewal Fee: **\$150** Due Date: **9/30/2023** Please make check payable to: Aitkin County

Notice of Late Fee: If your completed application and renewal fee are not received or postmarked by the date, add a \$50.00 late fee.

Monitoring Protocol

Any sampling and laboratory testing procedures shall be performed in accordance with the proprietary treatment product's protocol Standard Methods, and at a Minnesota Department of Health approved laboratory. Results shall be submitted to the permitting authority at: Aitkin County Environmental Services, 307 2nd St NW, Room 219, Aitkin, MN 56431 no later than the expiration date listed.

Contingency Plan

In the event the wastewater treatment system does not meet required performance requirements as contained in this operating permit, the owner shall notify Aitkin County Environmental Services within thirty (30) days of receiving non-compliant information. The owner is responsible to obtain the services of a Minnesota Pollution Control Agency (MPCA) licensed Service Provider or other qualified inspector to complete the required corrective measures.

Authorization

Aitkin County Environmental Services authorizes the Permittee to operate a wastewater treatment and dispersal system at the location named above in accordance with the requirements of this operating permit, attached Management Plan and contract with the S


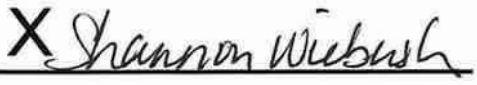
named above in accordance with the requirements of this operating permit, attached management plan and contract with the Service Provider/Inspector.

This permit is effective on the issuance date and term identified above. This permit and the authorization to treat and disperse wastewater shall expire on the expiration date identified above. The Permittee is not authorized to discharge after the above date of expiration. The Permittee shall submit monitoring and maintenance information on forms as required by Aitkin County Environmental Services prior to the above date of expiration for operating permit renewal. If not renewed within ninety (90) calendar days of the expiration date, it may be required that the system be abandoned in accordance with MN Rule 7080.2500. This permit is not transferable as to person or place.

The owner is required to obtain the services of a Minnesota Pollution Control Agency (MPCA) licensed and trained: 1) Service Provider or Inspector to provide ongoing system operation, maintenance, and monitoring and 2) Maintainer to pump the system's sewage and components. The owner is responsible to provide the name of the Service Provider or Inspector business prior to the issuance of this operating permit. The owner has secured the services of **Mark Ritter** as the Service Provider or Inspector for this system. The Service Provider or Inspector is hereby authorized to provide the required monitoring data and routine maintenance service records to both Aitkin County Environmental Services.

[For systems that generate high strength wastewater, the following items should be added to the operating permit: "If there is a change of use within the facility (i.e., change in menu, increase in food capacity, change in water use fixtures, etc.), the permittee is required to notify Aitkin County Environmental Services and the Service Provider before any changes occur. Changes to the facility that could potentially impact performance of the wastewater treatment and dispersal system shall not take place until appropriate evaluations have been completed."]

I hereby certify with my signature as the Permittee that I understand the provisions of the wastewater treatment and dispersal system operating permit including 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 the use of this system. If I fail to comply with the provisions of this operating permit, I understand that penalties may be issued. If I sell this property during the life of the permit, I will inform the new owner of the permit requirements and the need to renew the operating permit.

Permittee (please print):		Permitting Authority (please print):	Shannon Wiebush / P2
Title:	Date:	Title:	office Assistant Date: 9-29-23
Permittee Signature:		Permitting Authority Signature:	
	Permittee Signature		Aitkin County Representative Signature

SEPTIC SYSTEM REVIEW FOR
Mike Patnode
Parcel # 01-0-067601
Operating permit #147

Property located in Aitkin Township

September 28, 2023

The above mentioned property has an elapsed timer installed on it. On Sept of 2022 the meter reading was 0 hour .17 hundredths. On Sept of 2023 the meter reading was 5 hour 67 hundredths with a difference of 330 minute's. So at 50 gallon per minute x 330 minutes= 16,500 gallons divided by 365 days =45 gallons per day average. Sewage sample where pulled and sent off to the laboratory for testing (we don't have results as of yet). Once results are received we will send into county.

The system is set up for 300 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.

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

System gravity flows into a 1860 combo tank with effluent pump charging 2 -Peat Filter then draining into a 630 gal pump tank into a pressure bed.

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this 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
TSS	< 65 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
Total Nitrogen	< 30 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
BOD5	< 220 mg/l	Peat Filter Effluent	ANNUALLY	Grab	ANNUALLY
Flow	300 gal / day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY OK ✓

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY	
Flow	Water Meter	MONTHLY	OK ✓
Inspect Effluent Filters	Peat Filter	ANNUAL	OK ✓
Pumps, Floats & Alarms	Pump Chamber	ANNUAL	OK ✓
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL	OK ✓
Surface Discharge	Dispersal System	ANNUAL	none ✓
Vegetative Cover	Dispersal System	ANNUAL	good ✓

D. MONITORING AND REPORTING REQUIREMENTS:

~~Talk~~
~~Air~~
~~Toll~~ ~~for Gauge add, that~~
 1 min pump down

Patnode

June 20-2017 Mark Rth

~~999819~~
~~236.60 h~~
~~2 hours off~~
~~1 min on~~

old readings
with
bad meter

Sept. 29. 22

~~999822~~
~~5318.83 H10~~

Sept. 28. 22

~~7254.95~~
~~999822~~
 5.67 on 1:ft pump

New meter
↓

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second Street NW, Room 219

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



10/19/2023

Re: Operating Permit #147
Zoning Permit # 31604
Parcel #01-0-067601

Michael & Gretchen Patnode
43492 State Hwy 210
Aitkin, MN 56431

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 9/30/2028 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,

A handwritten signature in cursive script that reads "Shannon W.".

Aitkin County Planning & Zoning