

# ZONING PERMIT APPLICATION

171

FULL NAME Marion Beattie TELE # \_\_\_\_\_  
 BIRTHDATE & DL # \_\_\_\_\_  
 MAIL ADDRESS 11652 Cedarvale, Norwalk CA 90650  
 911 ADDRESS 48702 187th Pl. McBratney 55760  
 TOWNSHIP Shamrock  
 LEGAL DESCRIPTION Lot 4 Blk 1 Flies Additions  
 SECTION 22 TOWNSHIP 49 RANGE 23

**OFFICE USE ONLY**  
 DATE 10-5-04 APPROVE / DENY  
 PERMIT# 32117  
 PARCEL# 29-1-508200  
 RECEIPT# 0650  
 CONFORMING SEPTIC  
 YES P# \_\_\_\_\_ NO (NEW)

(circle) RESIDENTIAL COMMERCIAL ACCESSORY NEW BUILDING ALTERATION  
 BUILDING CONTRACTOR AND LICENSE NUMBER: \_\_\_\_\_  
 SIZE OF ALL BUILDINGS COVERED BY THIS APPLICATION \_\_\_\_\_

Septic system/other

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DESIGNER Craig Karjaneh

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

**DO NOT WRITE BELOW THIS LINE**

**ZONING DISTRICT & FLOOD PLAIN**

ZONING DISTRICT 3/L Minnewauka  
 LAKE/STREAM/RIVER NAME Minnewauka  
 LAKE/RIVER ID NUMBER 1-0033  
 LAKE/RIVER/STREAM CLASSIF. 60  
 PARCEL LOCATED IN FLOOD PLAIN? Y X N \_\_\_\_\_  
 10/100-YR. FLOOD ELEVATION 1225.4  
 LOWEST FLOOR ELEVATION 1226.4  
 ELEV. CERTIFICATE REQUIRED Y \_\_\_\_\_ N \_\_\_\_\_  
 BEFORE CONSTRUCTION Y \_\_\_\_\_ N \_\_\_\_\_  
 AFTER CONSTRUCTION Y \_\_\_\_\_ N \_\_\_\_\_

**STRUCTURE SETBACK DISTANCE REQUIREMENTS**

(Measure from eaves or overhang)  
 OHW TO LAKE/RIVER/STREAM 75  
 PROPERTY LINE SETBACK (10-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 75  
 PROPERTY LINE SETBACK (10-ft.) \_\_\_\_\_  
 SETBACK TO ROAD R-O-W (10-ft.) \_\_\_\_\_

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

SOIL BORINGS 3 SEPTIC DESIGN Other GARBAGE DISP/HOT TUB YES \_\_\_\_\_ NO X  
 PERK RATES 1.2 DEPTH TO RESTRICTING LAYER 29'  
 MIN. SIZE SEPTIC TANK 1000 MIN. SIZE PUMP TANK 520  
 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: Bed bottom area 571 sq. ft.

x Nancy Karjaneh \$ 300 MISSY RECEIVED BY 8/10/04  
 SIGNATURE APPLICANT/AGENT FEE DATE

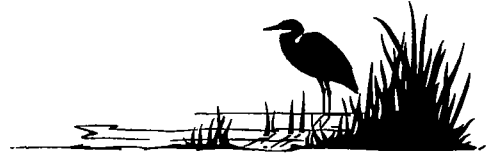
**EXPIRES IN ONE YEAR**

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

# AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW  
Aitkin, Minnesota 56431

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



August 16, 2004

RE: Septic Operating Permit #171; Zoning  
Permit # 32117; Parcel 29-1-508200

BEATTIE, MARIAN & JAMES TRUSTEES  
11652 CEDARVALE  
NORWALK CA 90650

To Whom It May Concern:

Enclosed is the Operating Permit for a septic system that is to be installed on your property. Please review this permit thoroughly and become aquatinted with the conditions then sign the operating permit and return it to me with the enclosed envelope. Some conditions may have changed since the initial application was signed. One provision that is often overlooked by homeowners is the State of Minnesota requirement that a water meter or other flow measuring device be installed and the results recorded by the homeowner on a MONTHLY basis. Please be aware that a Certificate of Compliance can not be issued until this provision is met; you may wish to make provisions for its installation now.

Should you have questions, please contact me at the number above.

Sincerely,

A handwritten signature in black ink, which appears to read "Richard Courtemanche". The signature is written in a cursive style and is enclosed within a large, thin, hand-drawn oval.

Richard Courtemanche  
Assistant Zoning Administrator  
Aitkin County

Enclosure

**AITKIN COUNTY ENVIRONMENTAL SERVICES**

**OPERATING PERMIT FOR WASTEWATER  
TREATMENT AND DISPERSAL**

**OPERATING PERMIT #:** 171

**FEE:** \$50

**PERMITTEE:** Marion Beattie

**PHONE:**

**ADDRESS:** 11652 Cedarvale  
Norwalk, CA 90650-

**ZONING PERMIT #** 32117

**PARCEL #:** 29-1-508200

**ISSUE DATE:** 8/16/04

**RENEW DATE:** 12/31/05

**LEGALDESCRIPTION:** Lot 4, Blk 1, Floes Additions

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

9-27-04  
Date

  
\_\_\_\_\_  
Signature of Permitting Authority

10-5-04  
Date

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

**A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM**

This system will utilize the Bio-microbics "FAST" aerobic tank to obtain one foot of separation credit to allow the pressurization of a 14X41' pressure bed. Costs: Installation: unkn, Cost of annual monitoring \$100, Cost of monthly operation \$10-15, Anticipated life 20-30 years.

**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	Aerobic Tank Effluent	ANNUALLY	Grab	ANNUALLY
Fats, Oil and Greases	< 30 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	ANNUALLY
Fecal Coliform	<10000 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	ANNUALLY
Flow	450 gal per day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Total Phosphorus	< 30 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	ANNUALLY
TSS	< 65 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	ANNUALLY

**C. MAINTENANCE REQUIREMENTS:**

PARAMETER	LOCATION	FREQUENCY
Aerobic Tank Function	Aerobic Tank	ANNUAL
Flow	Water Meter	MONTHLY
Pumps, Floats & Alarms	Pump Chamber	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 Craig Karjalahti.

**E. MITIGATION PLAN:**

1) If weeping occurs; lower dosing rate, lower water usage, install pretreatment or increase absorption area. 2) A different or another Performance or Other System may be installed at the owner's expense. 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 \*\*\*

# AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW  
Aitkin, Minnesota 56431

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



September 14, 2004

RE: Septic Operating Permit #171; Zoning  
Permit # 32117; Parcel 29-1-508200

BEATTIE, MARIAN & JAMES TRUSTEES  
11652 CEDARVALE  
NORWALK CA 90650

To Whom It May Concern:

Enclosed is the Operating Permit for a septic system that is to be installed on your property. Please review this permit thoroughly and become aquatinted with the conditions then sign the operating permit and return it to me with the enclosed envelope. Some conditions may have changed since the initial application was signed. One provision that is often overlooked by homeowners is the State of Minnesota requirement that a water meter or other flow measuring device be installed and the results recorded by the homeowner on a MONTHLY basis. Please be aware that a Certificate of Compliance can not be issued until this provision is met; you may wish to make provisions for its installation now.

PLEASE NOTE THAT ALL FEES HAVE BEEN PAID THROUGH DECEMBER 31, 2005.

Should you have questions, please contact me at the number above.

Sincerely,

Richard Courtemanche  
Assistant Zoning Administrator  
Aitkin County

Enclosure

DSPPRCL1

Display Parcel Description

8/04/04 08:59:08

Notes: No

Parcel number/Tax year: 29-1-508200  
Owner(s): 925  
BEATTIE, MARIAN & JAMES TRUSTEES  
11652 CEDARVALE  
NORWALK CA 90650

2005 Reference parcel: 00229055508200  
Parcel type : RE Hold tax stmt:  
Com district: 4 Misc1/2: .  
Escrow agent:  
Mortgage hld:  
UTA: Twp/City School AMBU \*\*\*\* \*  
029 0004 00 00 00 00

Taxpayer: 925 FALCO: 1 F.O.  
BEATTIE, MARIAN & JAMES TRUSTEES  
11652 CEDARVALE  
NORWALK CA 90650

TIF district: 000 000  
Lake#/name : 1-0033 MINNEWAWA LAKE  
Property adr:

Alternate taxpayer:

Emergency# : -  
Twp/City Plt: SHAMROCK TWP 55  
Sec/twp/rge : 22 49.0 23 Acres:  
Plat: FLOES ADDITIONS  
Description: Lot/Block . :  
LOT 4 BLK 1

Press Enter to continue or enter new parcel/tax year. 29-1-508200 2005  
F1=Full desc F2=Trans hist F3=Exit F6=Prcl hist F7=Backward F9=Escrow hist  
F12=Cancel F14=Phy Addr F17=Dsply Note

**FIELD EVALUATION SHEET**

PRELIMINARY EVALUATION DATE 5-20-04, FIELD EVALUATION DATE 7-20-04  
PROPERTY OWNER: MARION BEATTIE PHONE \_\_\_\_\_  
ADDRESS: 48702 187th PL. CITY, STATE, ZIP: MC GREGOR, MN. 55760  
LEGAL DESCRIPTION: LOT 4 BL 1 FLOE ADDN.  
PIN# 29-1-508200 SEC 22 T 49 R 23 TWP NAME SHAMROCK  
FIRE# 5 LAKE/RIVER MINNEWAWA LAKE CLASS SD OHWL \_\_\_\_\_ FT.

**DESCRIPTION OF SOIL TREATMENT AREAS**

	<b>AREA #1</b>	<b>AREA #2</b>	REFERENCE BM ELEV. <u>100</u> FT.
DISTURBED AREAS	YES _____ NO <u>X</u>	YES _____ NO _____	REFERENCE BM DESCRIPTION
COMPACTED AREAS	YES _____ NO <u>X</u>	YES _____ NO _____	<u>BASE OF TRANSFORMER</u>
FLOODING	YES _____ NO <u>Y</u>	YES _____ NO _____	_____
RUN ON POTENTIAL	YES _____ NO <u>X</u>	YES _____ NO _____	_____
SLOPE %	<u>1-2%</u>	_____	_____
DIRECTION OF SLOPE	<u>W / SW</u>	_____	_____
LANDSCAPE POSITION	<u>FLAT AREA</u>	_____	_____
VEGETATION TYPES	<u>PINE-BIRCH-WHITE OAK-LAWN-SUMAC</u>		

DEPTH TO STANDING WATER OR MOTTLED SOIL: BORING# 1 34", 1A 34", 2 \_\_\_\_\_, 2A \_\_\_\_\_

BOTTOM ELEVATION--FIRST TRENCH OR BOTTOM OF ROCK BED: #1 98.5 FT., #2 \_\_\_\_\_ FT.

SOIL SIZING FACTOR: SITE #1 1.27, SITE #2 \_\_\_\_\_  
PER TERRY NEFF 12" CREDIT

CONSTRUCTION RELATED ISSUES: FAST WASTEWATER TREATMENT SYSTEM  
NO PERMANENT STRUCTURE ON SITE SOILS VERIFIED BY BECKY

IC# 1589 SITE EVALUATOR SIGNATURE: Craig Kartjalahti

SITE EVALUATOR NAME: CRAIG KARTJALAHITI TELEPHONE# 218-426-4661

SOIL REVIEW \_\_\_\_\_ DATE \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SOIL BORING LOGS ON REVERSE SIDE**

*Personal*  
8-1004

# TRENCH DESIGN SHEET

PROPERTY OWNER MARION BEATTIE TOWNSHIP SHAMROCK FIRE#         
 PERMIT#        PIN# 29-1-508206 DATE 7-20-04  
 DESIGNER NAME CRAIG KARTALAHITI LICENSE# 1589  
 SIGNATURE: Craig Kartalahiti DATE: 7-20-04 SITE EVALUATION #       

### WATER USE APPLIANCES (CHECK ALL THAT APPLY)

CLOTHES WASHER        WATER SOFTNER        DISHWASHER        WHIRLPOOL        HUMIDIFIER         
 NUMBER OF BEDROOMS 3 TYPE:        GARBAGE DISPOSAL: YES NO AIR TEST: YES NO  
 WELL: DEEP (50'+)        SHALLOW X SETBACKS: TANK        DRAINFIELD        SEWER LINE       

### FLOW

A. ESTIMATED 450 GPD OR MEASURED GPD         
 B. SEPTIC TANK VOLUME 1000 GALLONS  
 C. MINIMUM PUMP TANK VOLUME 500 GALLONS  
 C1. ALARM TYPE ELEC.

### SOILS

D. DEPTH TO RESTRICTING LAYER 2.9 FEET + 1 FT CREDIT FOR TREATMENT  
 E. MAXIMUM SYSTEM DEPTH (D-3) 2 FT OR        ELEV.  
 F. PERCOLATION RATE 1.2 MPI  
 G. SOIL SIZING FACTOR 1.27 SQ FT/GPD

### TRENCH BOTTOM AREA

H. 6 IN. OF ROCK OR GRAVELLESS: A x G = X =        SQ. FT.  
 I. 12 IN. OF ROCK: A x G x 0.8 =        x        x 0.8 =        SQ. FT.  
 J. 18 IN. OF ROCK: A x G x 0.66 =        x        x 0.66 =        SQ. FT.  
 K. 24 IN. OF ROCK: A x G x 0.6 =        x        x 0.6 =        SQ. FT.

### BED BOTTOM AREA (6 OR 12 INCHES OF ROCK)

L. SEEPAGE BEDS: 1.5 x A x G = 1.5 x        x        =        SQ. FT.  
 M. PRESSURE BEDS: A x G = 450 x 1.27 = 571 SQ. FT.

### ROCK VOLUME IN CU FT.

N. ROCK DEPTH BELOW PIPE .5 + 0.5 FT. x (H, I, J, K, L, M) 571 = 571 CU FT.

### ROCK VOLUME IN CU YDS

O. N. 571 + 27 = 21.16 CUYDS

### ROCK WEIGHT

P. O. x 1.4 = 29.83 TONS

### SYSTEM LENGTH

Q. BOTTOM AREA (H-K) 571 + TRENCH WIDTH 14.00 = 40.78 LINEAL FT

### LAWN AREA

R. SELECT TRENCH SPACING, CENTER TO CENTER =        FT.  
 S. MULTIPLY TRENCH SPACING BY LINEAL FEET R X Q =        SQ FT OF LAWN AREA

LUG APPROVAL:        DATE:       

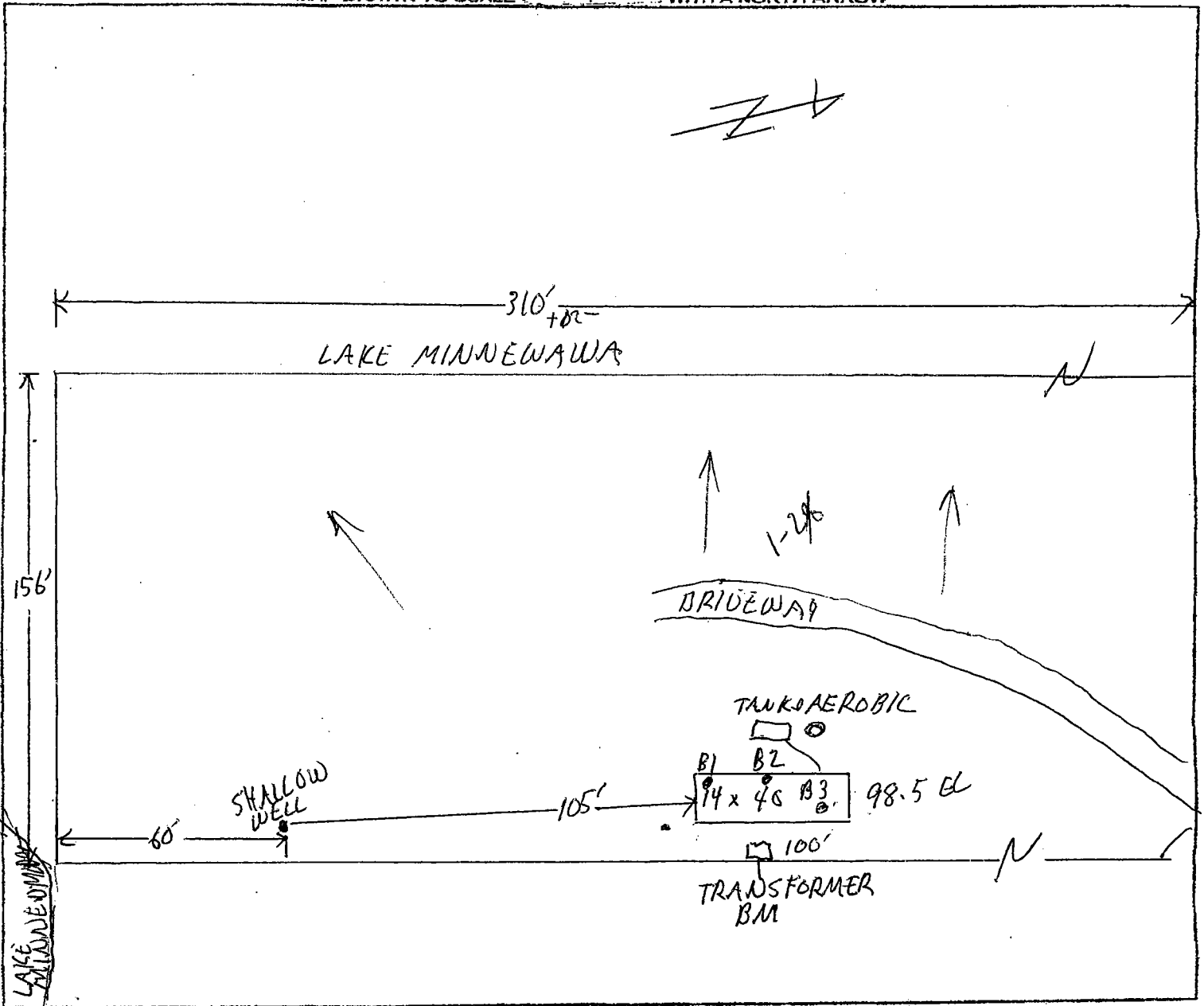
COMMENTS:         
        
      

EST. FLOW IN GALLONS/DAY (GPD)			
NUMBER OF BEDROOMS	TYPE I	TYPE II	TYPE III
2	300	225	180
3	450	300	218
4	600	375	255
5	750	450	294
6	900	525	332
7	1050	600	370
8	1200	675	408

SEPTIC TANK CAPACITY		
NUMBER OF BEDROOMS	MINIMUM TANK CAPACITY GALLONS	MINIMUM CAPACITY GARBAGE DISPOSAL
2 OR LESS	1000	1500
3 OR 4	1000	1500
5 OR 6	1500	2250
7 OR 8	2000	3000
OVER 8	SEE FIG C-6	(x 1.5)

SIZING FACTORS			
PERC RATE PI	SOIL TEXTURE	SOFT. GALLONS /DAY	GALLONS /575'
< THAN 0.1	COARSE SAND	—	—
0.1 TO 0.5	SAND	0.93	1.20
0.1 TO 0.5	FINE SAND	1.07	0.80
0.6 TO 1.0	SANDY LOAM	1.27	0.78
1.1 TO 2.0	LOAM	1.87	0.50
2.1 TO 4.0	SILT LOAM	2.00	0.50
4.1 TO 6.0	CLAY LOAM	2.20	0.45
> THAN 6.0	CLAY	—	(0.24)

MAP DRAWN TO SCALE: 1" = 40' WITH A NORTH ARROW



**CHECK OFF LIST-HAVE ALL OF THE FOLLOWING BEEN DRAWN ON THE MAP??**

**SHOW EXISTING OR PROPOSED**

- WATER WELLS WITHIN 100 FT OF TREATMENT AREAS
- PRESSURE WATER LINES WITHIN 10 FT OF TREATMENT AREAS
- STRUCTURES
- ALL SOIL TREATMENT AREAS
- HORIZONTAL AND VERTICAL REFERENCE
- POINT OF SOIL BORINGS
- LOT EASEMENTS
- DISTURBED/ COMPACTED AREAS
- SITE PROTECTION-LATHE AND RIBBON EVERY 15 FT
- ACCESS ROUTE FOR TANK MAINTENANCE
- REQUIRED SETBACKS
- STRUCTURES
- OHWL
- LOT IMPROVEMENTS
- ALL ISTS COMPONENTS
- DIRECTION OF SLOPE
- ALL LOT DIMENSIONS
- PROPERTY LINES

**INDICATE ELEVATIONS**

- BENCHMARK TRANSFORMER
- ELEVATION OF SEWER LINE @ HOUSE NONE
- ELEVATION @ TANK INLET 99'
- ELEVATION @ BOTTOM OF ROCK LAYER 98.5
- ELEVATION @ BOTTOM OF BORING OR RESTRICTIVE LAYER 96.5
- ELEVATION OF PUMP 92
- ELEVATION OF DISTRIBUTION DEVICE 90.5

COMMENTS:

DESIGNER SIGNATURE Craig Koryolatti  
 LICENSE# 1589

DATE 7-20-04

Contract to verify

# MARION BEATIE PROJECT

## A. Determine pump capacity

### Gravity distribution

1. Minimum is 10 GPM
2. Maximum is 45 GPM

### Pressure Distribution

3. a. Select number of perforated laterals 4.
- b. Select perforation spacing = 4 ft.
- c. Subtract 2 ft from rock layer length:  
 $\frac{41}{41} - 2 = \frac{39}{39}$  feet. (length of laterals)

### ROCK LAYER LENGTH

- d. Determine the number of spaces between perfs:

$$\frac{39}{(\text{length of lateral})} \div \frac{4}{(\text{perf. spacing})} = \frac{10}{10} \text{ spaces}$$

- e.  $\frac{10}{10} \text{ spaces} + 1 = \frac{11}{11}$  perforations per lateral

- f. Multiply perforations per lateral by number of laterals to get total number of perforations:

$$\frac{11}{(\text{perfs/lateral})} \times \frac{4}{(\text{laterals})} = \frac{44}{44} \text{ (perforations)}$$

- g.  $\frac{44}{(\text{Perforations})} \times \frac{.74}{(\text{gpm/perfs})} = \frac{32}{32} \text{ GPM}$

SELECTED PUMP CAPACITY 32 GPM

## B. Determine head requirements: *Contract to verify*

1. Elevation difference between pump & point of discharge:  
6 feet

2. If pumping to a pressure distribution system, add 5 feet; for gravity add zero: 5 feet

### 3. Friction Loss

- a. Enter friction loss table with GPM and pipe diameter. Read friction loss in feet per 100 ft in table.  
 F.L. = 2.06 ft/100 of pipe

- b. Determine total pipe length from pump to discharge point. Add 25% to pipe length for fitting loss.  
18 length x 1.25 = 22.5 feet.

- c. Calculate total friction loss by multiplying friction loss in 100 ft. of pipe by equivalent pipe length (B):

Total friction loss =  $\frac{2.06}{2.06} \times \frac{22.5}{22.5} / 100 = \frac{.46}{.46}$  feet

4. Total head required is the sum of the elevation difference, special head requirements and total friction loss:

$$\frac{6}{(1)} + \frac{5}{(2)} + \frac{.46}{(3c)} \text{ TOTAL HEAD } \underline{11.46}$$

SELECT A PUMP TO DELIVER AT LEAST 32 GPM WITH AT LEAST 11.46 FEET OF TOTAL HEAD.

If laterals are connected to a header pipe in a pressure system, select the minimum size lateral diameter; enter the table with perforation spacing and the number of perforations per lateral.

Select minimum size of lateral 1.5

For a center manifold system the values will be 1/2 of above.

## Perforation Discharges in GPM

Head (feet)	Perforation diameter (inches)	
	7/32	1/4
1.0a	0.56	0.74
1.5	0.69	0.90
2.0b	0.80	1.04

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

## FRICTION LOSS IN PLASTIC PIPE

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

Max. No. of 1/4" perfs per lateral. (10% var)

Perforation spacing (feet)	Max. No. of 1/4" perfs per lateral. (10% var)		
	1 1/4"	1 1/2"	2"
2.5 feet	14	18	28
3.0 feet	13	17	26
3.3 feet	12	16	25
4.0 feet	11	15	23
5.0 feet	10	14	22

# AITKIN COUNTY ENVIRONMENTAL SERVICES

## OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

FEE AMOUNT = \$ \_\_\_\_\_

PERMITTEE MARION BEATTIE

PERMIT NUMBER 200 \_\_\_\_\_

ADDRESS 48702 187<sup>th</sup> PL. MC GREGOR, MN. 55760

LEGAL DESCRIPTION LOT 4 BL. 1 FLOE ADDN.

PARCEL NUMBER 29-1-508200

TELEPHONE # \_\_\_\_\_

GIS LOCATION \_\_\_\_\_

ISSUANCE DATE \_\_\_\_\_

EXPIRATION DATE \_\_\_\_\_

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. If you have any questions on this permit, please call our Office at 218-927-7342.

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 above date of expiration. The Permittee shall submit such information and forms as required by Aitkin County Environmental Services no later than 30 days prior to the above expiration date. When the required information is submitted and approved by Aitkin County Environmental Services, the permit may be renewed. This permit is not transferrable 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 to renew the permit.

*Marion Beattie*  
Signature of Permittee

Aug. 9, 04  
Date

\_\_\_\_\_  
Signature of Permitting Authority

\_\_\_\_\_  
Date

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



# AITKIN COUNTY ENVIRONMENTAL SERVICES

## APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

PERMITTEE MARION BEATTIE PARCEL NUMBER 29-1-508200

ADDRESS 48702 187th Pl. MCGREGOR MN. 55760

LEGAL DESCRIPTION LOT 4 BCI FODE ADDN.

TELEPHONE #                     

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)

1500 GAL. COMB. TANK WITH A BIO-MICROBICS (FAST) PRE TREATMENT SYSTEM INSTALLED TO GAIN A 12" SEPARATION CREDIT THEN FED INTO A LIFT STATION TO FEED INTO AN INGROUND PRESSURE BED  
ANNUAL MONITORING 100.00  
ANTICIPATED LIFE 20-30 YRS.

**B. MONITORING PLAN AND REPORTING FREQUENCY:**

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
FLOW	450 GPD	METER	MONTHLY	VISUAL	ANNUAL
5-DAY BOD	<del>20</del> 14 MG/L	TANK			
TOTAL NITROGEN	20.5	TANK			
TOTAL PHOSPHORUS	1 MG/L	TANK			
TSS	<del>15</del> 14 MG/L	TANK			
FATS, OILS AND GREASE	30	TANK			
FECAL COLIFORM	21000 70 % REDUCED	TANK			
SEPARATION DISTANCE	<del>2</del> 2'	AT INSTALLATION			

CRAIG KARTALANT will perform the monitoring of this septic system.

**A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM:**

**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 discharge from the wastewater treatment unit shall be limited by the Permittee as specified below:

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
FLOW	450 GPD	METER	MONTHLY	VISUAL	ANNUAL
5-DAY BOD	14 MG/L				
TOTAL NITROGEN	< 0.5				
TOTAL PHOSPHORUS	1 MG/L				
TSS	12 MG/L				
FATS, OILS AND GREASE	30				
FECAL COLIFORM	< 1000				
SEPARATION DISTANCE	3' / 12" CREDIT AT INSTALL				

**C. MAINTENANCE REQUIREMENTS**

PARAMETER	LOCATION	FREQUENCY
SLUDGE BUILD UP	TANKS	ANNUAL
CHECK FLOAT SETTING	LIFT TANK	ANNUAL
CHECK BLOWER	BLOWER	ANNUAL
LAB SAMPLE	TANK	ANNUAL

**D. MONITORING AND REPORTING REQUIREMENTS:**

Monitoring results obtained during each calendar year shall be submitted no later than December 31<sup>st</sup> of each year to:

Aitkin County Environmental Services  
209 2<sup>nd</sup> St NW  
Aitkin, MN 56431

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

The Permittee or designated agent 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.

**E. MITIGATION PLAN:**

HOLDING TANKS OR OTHER PRETREATMENT

**F. SPECIAL REQUIREMENTS:**

LAB TEST TANK SAMPLE ANNUALLY

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

It is hereby agreed this 9<sup>th</sup> day of August, 2004 by and between  
Craig Korvaldt (Inspector) and Marion Beattie (client)

(Client) Name & Address  
MARION BEATTIE

Street Address 48702 187<sup>th</sup> Pl.

City, State, Zip MC GREGOR, MN. 55766

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

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

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

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

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

**SEPTIC TANK AND LIFT STATIONS INSPECTION**

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

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

Check effluent filter for buildup and clean, if applicable.

Check pumping system, including control panel and floats.

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

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

Other: \_\_\_\_\_  
\_\_\_\_\_

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

### **TREATMENT DEVICE**

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

Inspect and clean any parts per manufacturer's recommendations.

Inspect and clean laterals, if applicable.

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

Sample effluent per Operating Permit monitoring requirements.

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

Other: \_\_\_\_\_  
\_\_\_\_\_

### **DISPERSAL FIELD**

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

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

Flush filters and clean cartridges, if applicable.

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

Other: \_\_\_\_\_  
\_\_\_\_\_

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

This contract shall be effective: Beginning August, 2004  
and Ending August, 2006

**Cost for Maintenance Service, Monitoring and Inspection Contract is:**

\$ 75.00 /yr. For 2 years totaling \$ 150.00

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

Payment for all services shall be paid Upon Completion.

**Client:**

**Inspector:**

Sign: Marian Beattie

Sign: Craig Karjalainen

Print: MARIAN BEATTIE

Print: CRAIG KARIJALAINEN

Date: Aug 9 04

Date: August 9<sup>th</sup>, 2004

**AITKIN COUNTY**  
**CERTIFICATE OF COMPLIANCE/NOTICE OF NONCOMPLIANCE**

This certificate of compliance/notice of noncompliance has been issued this 16 day of August 2004 to certify compliance noncompliance with Aitkin County's Individual Sewage Treatment System and Wastewater Ordinance No.

1. The premises covered by this certificate are legally described as: \_\_\_\_\_  
Lot 4 BIKI Flow Addr Permit # 29-508200  
Section 22 Township 49 Range 23 Lake MINNEWANCA  
PERMIT NO. 32117 Owner Name MARTIN BEATTIE  
Address 48702 187th pl McLure, MN  
Installer Name Kayahlata  
Type of System Inspected Bed w/ Fast Aerobic system

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

- 1) Inspection of the installation or construction as in accordance with the above referenced permit and application design.
  
- 2) Review of as-built plans submitted in accordance with Subdivision 4.21 C. Of Aitkin County's Individual Sewage Treatment System and Wastewater Ordinance No. 1.

If the above permitted individual sewage treatment system is in noncompliance with Aitkin County's Individual Sewage Treatment System and Wastewater Ordinance No. 1, then the following shall serve as a Notice of Violation:

1) Statement of the findings of fact through inspections or investigations: \_\_\_\_\_

2) List of specific violations of Ordinance: \_\_\_\_\_

3) Requirements for correction or removal of violations: \_\_\_\_\_

4) Time schedule for compliance: \_\_\_\_\_

Failure to correct or remove the above violations will result in this matter being turned over to the Aitkin County Attorney's Office for further legal action which may result in revocation of licenses or registrations, fine's and/or imprisonment.

INSPECTOR SIGNATURE \_\_\_\_\_  


570' bed 40" deep  
1000  
500

# INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM AITKIN COUNTY, MINNESOTA

Township Shannon Date of Inspection 8-16-04 Permit Number 32117  
Owner Marion Beattie Parcel Number 29-1-508200  
Project Address 48702 187th pl Milbrey Installer Kanjallati  
City Milbrey Zip Code 55760 New          Repair X

### SETBACKS:

Buildings to tank(s) Travel Trailer - not on lot  
Buildings to drainfield N/A  
Well(s) 50' or 100' 150'  
Lake/Creek/Wetland 100'

### SEPTIC TANKS:

Liquid capacity 1500/2 cup  
Manufacturer & type PINZ  
Type of baffle Plastic  
Inspection pipes 1-4" 1-6"  
Manholes access 24"  
No. & height of risers 4'

### MOUNDS:

Percent slope N/A  
Upslope dike width N/A  
Downslope dike width N/A  
Sideslope dike width N/A  
Drainfield rock below pipe 1"  
Depth of sand below rock N/A  
Perforation size & spacing 1/4" + 4"  
Pipe size & spacing 1.5" @ 4'  
Dimensions of rock bed 40 x 15  
Dimensions of sand base N/A  
Final cover geotextile over rock

### DIST. or DROP BOX & TYPE

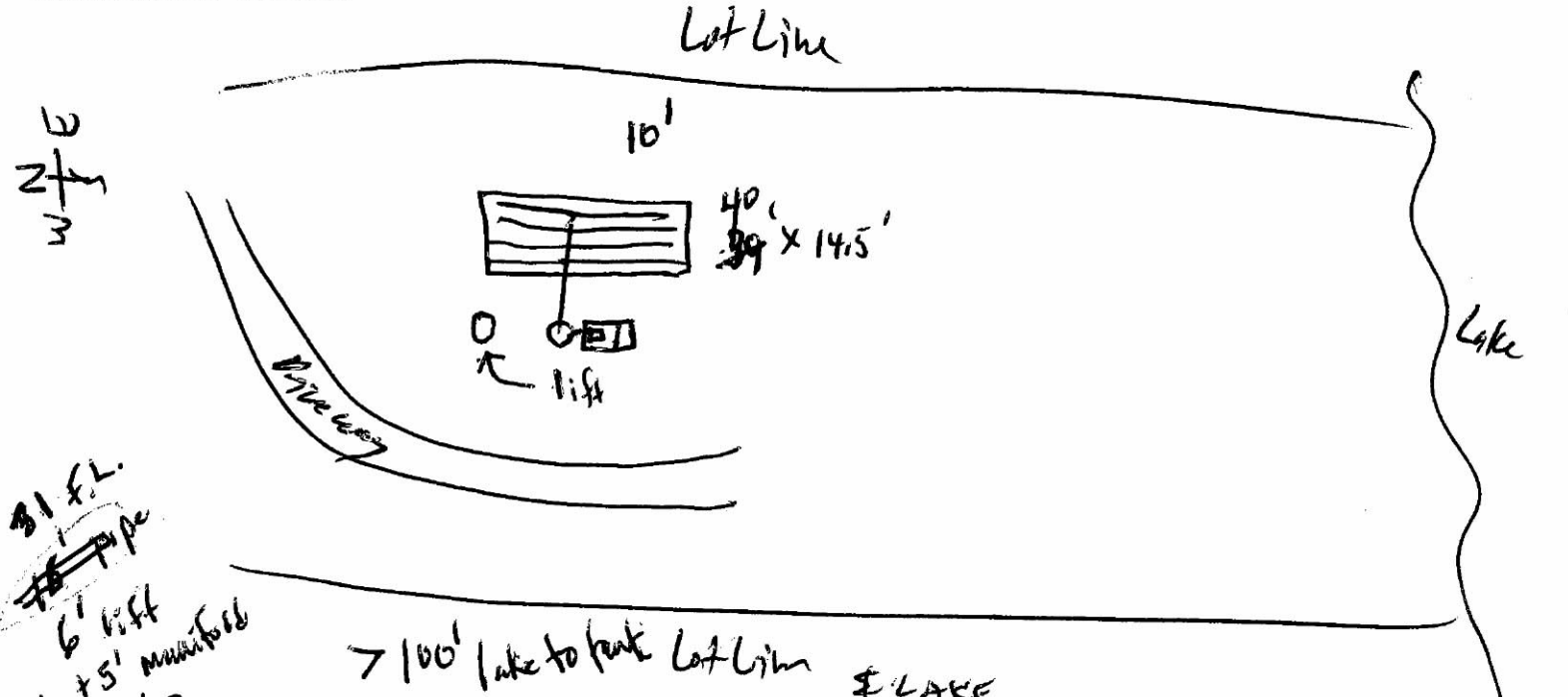
### TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:

Trench depth 10"  
Trench length 40  
Trench bottom width 14.5 (580 ft<sup>2</sup>)  
Trench bottom level level  
Trench spacing -  
Drainfield rock below pipe 1"  
Size of gravelless pipe -  
Depth of backfill 1 ft  
Absorption area: square feet (580 ft<sup>2</sup>)  
lineal feet -

### PUMPS:

Tank capacity 500  
Tank manufacturer & type Northwest Co  
No. & height of risers 24" + 16"  
Pump manufacturer & model# Liberty 283  
Horsepower & GPM 1/2 HP  
Feet of head 11-12'  
Cycles per day 6  
Gallons per cycle 40  
Size of discharge line 2"  
Type of electrical hookup piggy back pump / post  
Type & location of alarm TANK ALARM on 2"  
Cycle counter (commercial) N/A

### DRAWING OF SYSTEM



Inspector's Comments parts in and caps Fast aerobic system over 1000 gal chamber - 500 chamber used as Trash tank. Tank installed backwards. MCF .5 FAST

Corrective Action Required will still cover tank, place covering on bed, install pump

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



RECEIVED DEC 06 2005

# A.W. Research Laboratories Inc.

Ecology Through Technology

(Beattie)

## Analysis Report

November 24, 2005

REPORT TO:  
C.K. SERVICES

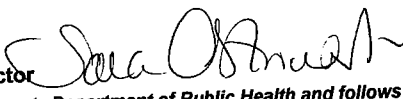
INVOICE TO:  
PRE-PAID \$165.00 CK# 6909  
BY: CRAIG KARJALAHTL

Date Sampled	11/14/2005
Time Sampled	
Sample Type	WASTEWATER
Date Rcvd-Brnd:	11/14/2005
Time Rcvd-Brnd:	13:21
Sampled by:	CRAIG KARJALAHTL
Recv Temp:	10 C

18089 490TH ST  
MCGREGOR MN 55760-

OWNER / LOCATION / SITE: BEATTIE  
LIFT TANK  
EFFLUENT

ANALYSIS - TEST(S) COMMENTS	Analyzed Value	Public Health Limit	Analysis Date Analysis Time	Analyst	Brainerd Codes
BIOCHEMICAL OXYGEN DEMAND (5 DAY), MG/L-C	LESS THAN 2.0		11/15/2005 15:00	SM	78472B
FECAL COLIFORM, COLONIES/100 ML-C	LESS THAN 10	200 Colonies	11/14/2005 14:15	SM	78472B
PH, PH UNITS-C	7.98		11/15/2005 13:50	SM	78472B
TOTAL SUSPENDED SOLIDS, MG/L-C	LESS THAN 4.0		11/15/2005 11:46	SM	78472B

Approved By: Sara Ostrowski, Laboratory Director 

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



COPY SENT TO: MARION BEATTIE  
AITKIN COUNTY PLANNING & ZONING  
PETERSEN WASTE WATER SERVICES

### NOTICE TO OCCUPANT

The wastewater that is produced by your residence or business is treated by FAST®, an advanced wastewater treatment system. The FAST® treatment unit is located on your property and is an on-site treatment system. Any on-site treatment and disposal system will work properly provided the occupants of the premises do not place harmful substances in the system. Therefore, certain standards must be followed in order to receive optimal performance from your FAST® system. You may be interested to know that most of these same standards are also important to follow even for those who are connected to a municipal or city sewer treatment system or conventional septic systems. Please refer to the list below for important information on how to help keep your treatment system performing as it should. In addition to these standards, all required maintenance must be completed in a timely manner.

**DO NOT SHUT THE BLOWER OFF** (Notify your maintenance provider if it appears to be functioning improperly or if you will be leaving the property for an extended period of time.)

#### DISINFECTANTS OR BLEACHES

Use in accordance with manufacturers recommendations and sparingly. Quaternary ammonia sanitizers (found primarily in commercial settings) or pine oil cleaners should not be used.

#### MEDICATIONS

Normal use of over the counter medications should not affect the system. However, strong antibiotics or chemotherapy drugs have been known to severely disrupt the treatment process. Please notify your service provider of this kind of issue so they may be aware of the reason for the system upset.

#### DETERGENTS

Should be low-suds, biodegradable, and low phosphate. (Some examples are: Arm & Hammer, ALL, and Ecolab® Products (commercial use))

#### PAPER PRODUCTS

Use white toilet paper products. Some natural bacteria do not eat color dyes in paper and therefore do not breakdown colored paper. Non-bleached paper (brown in color) takes a long time to breakdown due to the increased level of wood pulp.

NO TOILET BOWL TABLETS SHOULD BE USED.

NO DISCHARGE FROM WATER SOFTENERS SHOULD GO INTO THE SYSTEM.

NO ANIMAL FATS, SUCH AS BACON GREASE, LARD, OR ANY OTHER OILS SHOULD GO INTO THE SYSTEM. (Normal cleaning of pots and pans is acceptable.)

NO DRAIN CLEANERS SHOULD BE USED. (Vinegar and baking soda is good substitute. As a last resort chemical drain cleaners can be used, but use sparingly because they are toxic to the bacteria in the system.)

NO LIQUID FABRIC SOFTENERS SHOULD BE USED. (These products typically contain quaternary ammonia which is toxic to the bacteria. Please use dryer sheets.)

NO HARSH CHEMICALS OR TOXINS SHOULD BE PUT INTO THE SYSTEM  
(i.e. Floor stripping waste / household paints / solvents / thinners / caustic cleaners / pesticides / herbicides etc.)

#### OBJECTS NOT TO BE PUT INTO THE SYSTEM

DISPOSABLE DIAPERS	CAT LITTER	SANITARY NAPKINS
BANDAGES	CIGARETTE BUTTS	AUTOMOTIVE FLUIDS
RAGS	STRING	STICKS
MUD	CONDOMS	PLASTICS
METAL OBJECTS	PAPER TOWELS	CORN COBS
ANIMAL BONES	MELON RINDS	COFFEE GROUNDS
HOME BREWERY WASTE	EGG SHELLS	OLD MEDICATIONS

#### Laundry Wash Loading

It is recommended that wash loads be spread throughout the week.

#### Septic Tank Additives, Enzymes, and Bacteria

Under normal circumstances these would be unnecessary with advanced treatment systems and not recommended for traditional septic systems.

**VIOLATIONS OF THE ABOVE STANDARDS OF GOOD PRACTICE  
MAY VOID THE PRODUCT WARRANTY**

## Private Onsite Wastewater Treatment System (POWTS)

### Inspection Report

**Thank you for allowing us to help extend the life of your system!  
Let us know if you have any questions.**

*This is our report to you - Please read carefully*

Installation Location:  
Marion Beattie

Owner:  
Marion Beattie

48702 187th Place

McGregor, MN 55760

McGregor, MN 55760

Tel:

ATU Installed: Microfast 0.5 Install Date: August 16, 2004

ATU Serial Number: 23066

POWTS Agreement date: 8/28/04

CRAIG KARJALAHTI  
POWTS Inspector  
MPCA # 7589  
218-426-4161  
Phone Number

Date 11-14-05 Time AM

**Petersen Wastewater Services**  
PO Box 340, 421 Wheeler Avenue  
Fredonia, WI 53021  
Tel: 888-455-6864 or 262-692-2416  
Fax: 800-669-1232 or 262-692-2418  
E-Mail: powts@petersen.cc

Rev. 09/05

RECEIVED DEC 06 2005

# **CK SERVICE**

18089 490 STREET  
MCGREGOR, MN 55760  
218-426-4161 OR  
1-888-737-8420

RECEIVED DEC 06 2005

December 5, 2005

Aitkin County Environmental Services

209 2 Street NW

Aitkin, MN 56431

Inspection: 11/ 14/2005

RE: Starr and Beattie Operating Permit Inspections and Tests

I was impressed with the results on these Fast Septic Systems. I hope you are as well.

Thank you,



Craig Karjalahti

CK Service

**AITKIN COUNTY ENVIRONMENTAL SERVICES**

**OPERATING PERMIT FOR WASTEWATER  
TREATMENT AND DISPERSAL**

**OPERATING PERMIT #:** 171

**FEE:** \$50.00

**PERMITTEE:** Marion Beattie

**PHONE:**

**ADDRESS:** 13401 ST ANDREWS DR  
SEAL BEACH, CA 90740-

**ZONING PERMIT #** 32117

**PARCEL #:** 29-1-508200

**LEGALDESCRIPTION:** Lot 4, Blk 1, Floes Additions

**ISSUE DATE** 5/31/2006

**EXPIRATION DATE** 5/31/2007

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.**

See attached letter from  
**Signature of Permittee** OCK

6/23/06  
**Date**

M. Kengsley  
**Signature of Permitting Authority**

6/23/06  
**Date**

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

**A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM**

This system will utilize the Bio-microbics "FAST" aerobic tank to obtain one foot of separation credit to allow the pressurization of a 14X41' pressure bed. Costs: Installation: unkn, Cost of annual monitoring \$100, Cost of monthly operation \$10-15, Anticipated life 20-30 years.

**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	Aerobic Tank Effluent	ANNUALLY	Grab	ANNUALLY
Fats, Oil and Greases	< 30 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	ANNUALLY
Fecal Coliform	<10000 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	ANNUALLY
Flow	450 gal per day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Total Phosphorus	< 30 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	ANNUALLY
TSS	< 65 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	ANNUALLY

**C. MAINTENANCE REQUIREMENTS:**

PARAMETER	LOCATION	FREQUENCY
Aerobic Tank Function	Aerobic Tank	ANNUAL
Flow	Water Meter	MONTHLY
Pumps, Floats & Alarms	Pump Chamber	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 Craig Karjalahti.

#### **E. MITIGATION PLAN:**

1) If weeping occurs; lower dosing rate, lower water usage, install pretreatment or increase absorption area. 2) A different or another Performance or Other System may be installed at the owner's expense. 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 \*\*\*

RECEIVED JUN 23 2006

June 20, 2006

AITKIN COUNTY PLANNING & ZONING OFFICE

ATT; MISSY

RE: OPERATING PERMIT # 171( RENEWING )  
PLEASE EXCEPT RENEWAL PAYMENT FOR OPERATING  
PERMIT #171. THERE IS AN EVENT COUNTER ON THIS SEPTIC  
SYSTEM AS OF 4/20/06. THE WATER METER FROZE DUE TO NO  
USE OR PROPER DRAINING THIS PAST WINTER. EVENT  
COUNT NUMBER IS ZERO. MISS BEATTIE IS VERY ILL AND IS  
NOT RETURNING TO MN HOME THIS YEAR. SHE ASKED ME  
TO TRY AND TAKE CARE OF THIS MATTER FOR HER AS  
CHECK WAS RETURNED. WE SUBMITTED EVERYTHING TO  
YOUR OFFICE IN DEC. OF 2004. SHE HAD OR HAS NOT BEEN  
HERE TO DO WHAT YOU WANT. PLEASE CONSIDER THIS AS  
OUR ATTEMPT TO HELP HER AND SOLVE THE RENEWAL OF  
HER OPERATING PERMIT #171..

Thank you,



CRAIG KARJALAHTI  
CK SERVICE



CK Service

Thankyou very much

562-493-0469

Marian Beattie  
13401 St Andrews Dr  
# 128G  
Seal Beach Ca 90740



## Jack Freeman

Senior Real Estate Specialist

(562) 406-4660

E-Mail: [jack@jackfreeman](mailto:jack@jackfreeman)

Website: [www.jackfreeman.com](http://www.jackfreeman.com)

Tiffany-Mulhearn Realtors





# A.W. Research Laboratories Inc.

Ecology Through Technology

Beattie

## Analysis Report

November 24, 2005

REPORT TO:  
C.K. SERVICES

INVOICE TO:  
PRE-PAID \$185.00 CK# 6909  
BY: CRAIG KARJALAHTI

Date Sampled: 11/14/2005  
Time Sampled:  
Sample Type: WASTEWATER  
Date Rcvd-Brnd: 11/14/2005  
Time Rcvd-Brnd: 13:21  
Sampled by: CRAIG KARJALAHTI  
Recv Temp: 10 C

18089 490TH ST  
MCGREGOR MN 55760-

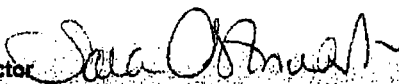
OWNER / LOCATION / SITE: BEATTLE  
LIFT TANK  
EFFLUENT

ANALYSIS - TEST(s)  
COMMENTS

Analyzed Value      Public Health Limit      Analysis Date      Analyst      Brainerd Codes

ANALYSIS - TEST(s) COMMENTS	Analyzed Value	Public Health Limit	Analysis Date Analysis Time	Analyst	Brainerd Codes
BIOCHEMICAL OXYGEN DEMAND (5 DAY), MG/L-C	LESS THAN 2.0		11/15/2005 15:00	SM	78472B
FECAL COLIFORM, COLONIES/100 ML-C	LESS THAN 10	200 Colonies	11/14/2005 14:15	SM	78472B
PH, PH UNITS-C	7.98		11/15/2005 13:50	SM	78472B
TOTAL SUSPENDED SOLIDS, MG/L-C	LESS THAN 4.0		11/15/2005 11:46	SM	78472B

Approved By: Sara Ostrowski, Laboratory Director



A.W. Research Laboratories is Certified by the Minnesota Department of Public Health and follows approved methods and procedures. Minnesota Laboratory Certification # 027-036-138. All data generated using certified methods noted as -C, all data generated using non-certified methods noted as -NC, and all analysts for which certification is unavailable -NA.



FORM 46806

RECEIPT

DATE

RECEIVED FROM

ADDRESS

6/23/06  
Barbara Bruff  
300 Bacon, CA

NO. 5214

DOLLARS \$

50

FOR BENT  
 FOR

00

ACCOUNT		HOW PAID	
AMT. OF ACCOUNT		CASH	
AMT. PAID		<input checked="" type="radio"/> CHECK	44.00
BALANCE DUE		<input type="radio"/> MONEY ORDER	

BY

MB

# AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW  
Aitkin, Minnesota 56431

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



August 9, 2011

RE: Renewed Operating Permit

To Marian Beattie:

This letter is to inform you that your Operating Permit (No. 171) has been renewed until May 31, 2016. 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,

Aitkin County Planning & Zoning and  
Environmental Services

3

# AITKIN COUNTY ENVIRONMENTAL SERVICES

## OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

→ Noted access in ~~2011~~ KK

OPERATING PERMIT #: 171

Renew out to 5 years

FEE: 100

PERMITTEE: Marion Beattie

PHONE:

ADDRESS: 13401 ST ANDREWS DR  
SEAL BEACH, CA 90740-

**ZONING PERMIT # 32117**

PARCEL #: 29-1-508200

ISSUE DATE: 6/30/2011

RENEW DATE: ~~5/31/2012~~

LEGAL DESCRIPTION: Lot 4, Blk 1, Floes Additions

5/31/2016

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.

Marion Beattie  
Signature of Permittee

8/8/11  
Date

PA  
Signature of Permitting Authority

8/8/11  
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.

OK #5301 dated 8/8/11 Receipt # 169727 KK

# Analysis Report

August 08, 2011

## REPORT TO:

JERRY FARLEY

P.O. BOX 472  
MCGREGOR MN 55760-

## INVOICE TO:

PREPAID BY JAROLD FARLEY  
\$61.00 CHECK #1186

Date Sampled: 8/1/2011  
Time Sampled: 08:00  
Date Rcvd-Brnd: 8/1/2011  
Time Rcvd-Brnd: 11:13

Sampled by: JAROLD R FARLEY  
Sample Type: WW  
Recv Temp: 5.3 C

LOCATION:  
MARION BEATIE  
MCGREGOR

SITE / ANALYTE	Analyzed Value	MCL	Analytical Method	Analysis Date/Time	Analyst	Code #
<b>PUMP TANK - EFFLUENT</b>						
BOD (5 DAY), MG/L-C	2.5		SM 5210 B-01 online	8/2/2011 09:40	BS	10800B
FECAL COLIFORM, COLONIES/100 ML-C	266*		SM 9222 D (m-FC)-97 online	8/1/2011 16:30	AF	10800B
PH, PH UNITS-C	7.61	5-9	SM 4500-H+ B-00 online	8/2/2011	BS	10800B
RESIDUE, NONFILTERABLE (TSS), MG/L-C	6.0		USGS I-3765-85	8/2/2011	BS	10800B

\*SAMPLE ANALYZED PAST HOLDING TIME

Approved By:

Date Approved:

Sara Ahlers, Laboratory Director

A.W. Research Laboratories is Certified by the Minnesota Department of Public Health and follows approved methods and procedures. Minnesota Laboratory Certification # 027-035-125. 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. Under the Safe Drinking Water Act (SDWA), EPA sets legal limits on the levels of certain contaminants in drinking water-these limits are indicated as Maximum Contaminant Levels of MCL on the report.

~End of Analysis

## YEARLY MONITORING REPORT

Operating permit # 171

Permittee: Marion Beattie

Zoning permit# 32117

Parcel # 29-1-508200

Attn: Pete

The water usage is monitored with an event counter ,that counts one count every time the pump cycles.The pump float is set up to pump 75 gal. per cycle with drainback.The daily usage averages Less than 75 gallons per day.ThePermittee did not have an event counter till last fall,and she winters in another state.I waited until she came back to monitor the water usage.The system is working properly.All floats,and pumps are working properly.

The drainfeild still has two ft. of verticle separation .The drainfeild doesn't have any leaks or ponding.

Due to amount of use (Lack of use) I think this system should be monitored every Five years,per phone conversation with pete..

Enclosed is acopy of the lab test from A&W research.

Jarold R. Farley





AUG 02 2010

# AITKIN COUNTY ENVIRONMENTAL SERVICES

## OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

OPERATING PERMIT #: 171 FEE: \$100.

PERMITTEE: Marion Beattie PHONE:

ADDRESS: 13401 ST ANDREWS DR  
SEAL BEACH, CA 90740-

ZONING PERMIT # 32117 PARCEL #: 29-1-508200

ISSUE DATE: ~~8/16/2004~~ RENEW DATE: ~~5/31/2010~~  
5-31-10 5-31-2011

LEGALDESCRIPTION: Lot 4, Blk 1, Floes Additions

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.

*Marion Beattie*  
Signature of Permittee

7/30/10  
Date

*Pete A*  
Signature of Permitting Authority

8/3/10  
Date

CK# 1135  
Receipt # 423149 8/9/10

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.

*Pete note,  
Jerry Farley is hired to do maintenance report.*

**AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING**

**209 Second Street, NW Room# 100**

**Aitkin, Minnesota 56431**

PH: (218) 927-7342

FX: (218) 927-4372



*renewed until  
2021  
aerobic  
tank*

3/17/2016

Marian Beattie  
13401 ST ANDREWS DR 128G  
SEAL BEACH, CA 90740-

Re: Operating Permit # 171  
Zoning Permit #32117  
Parcel ID#29-1-508200

*Jerry F not a service  
provider*

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. The enclosed Operating Permit was issued as part of the permit for your septic system and must be renewed.

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

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

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

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

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

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

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

Sincerely,

*5-23-16*

*Kathy Starika called -  
Manamie is her mom -  
explained renewal requirements  
218-768-4663*

Aitkin County Planning & Zoning

**AITKIN COUNTY ENVIRONMENTAL SERVICES****OPERATING PERMIT FOR WASTEWATER  
TREATMENT AND DISPERSAL****OPERATING PERMIT #:** 171**ZONING PERMIT #:** 32117**PARCEL #:** 29-1-508200**PERMITTEE:** Marian Beattie**MAILING ADDRESS:** 13401 ST ANDREWS DR

SEAL BEACH, CA

90740-

**ORIGINAL DATE ISSUED:** 6 /30/2011**RENEWAL PERIOD:****RENEWAL EXPIRATION:** 5 /31/2016**PROPERTY ADDRESS:**

48702 187th Pl.

McGregor, MN 55760

**TELEPHONE:****LEGAL:** Lot 4, Blk 1, Floes Additions**FEE PAID:** 100**DATE PAID:****RECEIPT:****CK #:**

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.**

*Marian Beattie*  
Signature of Permittee

Date 6-17-16

*Kalena S*  
Signature of Permitting Authority

7-1-16  
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.

Misc. (OFFICE USE ONLY) Permit # 2016-0449

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 07/01/2016 2:57 PM \$100		\$100.00	x 1	\$100.00	
<b>Grand Total</b>					
			<b>Total</b>	<b>\$100.00</b>	
<b>Payment</b>					
<b>Method:</b>	Check	<b>Note:</b>	ck5614 for renewal of op171		
<b>Date:</b>	07/01/2016				
<b>Made By:</b>	Marian Beattie				
<b>Confirmed By:</b>	Kalea Suihkonen				

P# 32117  
OP 171

6/27/2016

**Septic Check**

6074 Keystone Rd  
Milaca, MN 56353

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

Mail To: Marian Beattie  
48702 - 187th Place  
McGregor, MN  
55760

**PROPERTY INFORMATION**

Marian Beattie  
Location: 48702 - 187th Place  
McGregor  
Tax ID: 29-1-508200  
Use: Residential, Single Family  
System Design Flow: 450  
GENERAL SYSTEM TYPE: FAST Res 1x Yr. No Test  
Owner: Marian Beattie

Fold Here

**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Inspected: 06/23/2016 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:  
Septic Check

Work Performed By:  
Torrey Boser

Submitted 06/27/2016 by:  
Angie Stafford

Fold Here

**COMMENTS & GENERAL INSPECTION NOTES**

**No Deficiencies Noted**

Septic Check recommends to have the trash tank pumped out.

**GENERAL SITE & SYSTEM CONDITIONS**

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

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL**

**TANK: Trash Tank -1,500 Gal Combo**

Manufacturer: Local Manufacturer

This component was:	Fully Inspected
All required baffles in place (N/A = No baffles required):	YES
Effluent level within operational limits (if NO explain in comments):	YES
Compartment 1 Scum accumulation (Inches, if other specify):	4"
Compartment 1 Sludge accumulation (Inches, if other specify):	16"
Pumping recommended:	YES

**Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc. - MicroFAST 0.5**

Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5

This component was:	Fully Inspected
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES
Cleaned filter element:	YES
Unit audio/visual alarms functioning:	YES
Vent(s) and observation ports clear from obstructions:	YES
Vigorous boiling is occurring:	YES
Effluent is visually clear:	YES
The effluent smell is a damp, earthy odor (N/A = not observed):	YES
pH level within normal operating range (6-9): (Enter N/A if not performed):	YES
Field sample performance results within operational limits (Enter N/A if not performed):	YES
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):	NO
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO
Pumping needed:	NO



**TANK: Pump Tank****Manufacturer: Local Manufacturer**

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

**Panel: Control - 1 Pump Drainfield Dose Pump**

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	N/A	
Pump 1: off hours (override in parentheses - if present):	N/A	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	N/A	
Pump 1: Cycle Count (override in parentheses - if present):	942	

**Drainfield: Pressure Bed -15' x 40' Pressure Bed****Manufacturer: Site Constructed**

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

# SAMPLING REPORT

6/30/2016

Location: 48702 - 187th Place  
McGregor  
29-1-508200

Owner: Marian Beattie  
Use: Single Family

## Service Company:

### Septic Check

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

Laboratory: Pace Analytical

06/23/2016 sample entered by : Angie Stafford

Notes:

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Pump Tank	Effluent	Fecal	000 cfu/100r	<2

*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.*

APR 10 2017

# SEPTIC CHECK

29-1-508200

EXPERT SERVICE. LASTING VALUE. CLEAN WATER

## Septic System Compliance Inspection – Existing System

DATE: 4/4/2017

**Property Owner:** Marian Beattie  
**Street Address:** 48702 – 187<sup>th</sup> Place  
**City, State, Zip:** McGregor MN

Marian,

A compliance inspection was performed at the above location. Soil borings were conducted to determine the seasonal high water table; the drain field was inspected to ensure there was no ponding or leakage, the tanks and FAST pretreatment system were also inspected. A copy of the compliance inspection and service reports are attached.

The original design and inspection records showed sandy soils with redox features at 34". The inspection report also showed the county verified soils at that time. The soil boring conducted at the time of this inspection found a very similar soil profile to the original records. Redox features were found at 34" in the soil boring we completed around the drainfield area. Now that two soils professionals have verified soils for this site, we will be recommending that the county consider the soil separation permanently verified. We will also recommend that effluent sampling be limited to fecal coliform only.

All other components of the system were in good operating condition, and the system was found to be compliant with all county and state requirements.

We recommend, and the county operating permit requires, this advanced system be serviced by a septic professional at least every 12 months. The new property owner should apply for a new county operating permit and hire a service provider to service the system. If you have any further question please contact us.

Sincerely,



Brian Koski, Lic. No. B-276130  
Operation and Maintenance Manager  
Cell: 218-428-0391  
[brian@septiccheck.com](mailto:brian@septiccheck.com)





**Minnesota Pollution Control Agency**  
 520 Lafayette Road North  
 St. Paul, MN 55155-4194

# Compliance Inspection Form

## Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

**Inspection results** based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.

Submit completed form to Local Unit of Government (LUG) and system owner within 15 days

For local tracking purposes:

### System Status

System status on date (mm/dd/yyyy): 3/30/2017

**Compliant – Certificate of Compliance**  
 (Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

**Noncompliant – Notice of Noncompliance**  
 (See Upgrade Requirements on page 3.)

**Reason(s) for noncompliance (check all applicable)**

- Impact on Public Health (Compliance Component #1) – Imminent threat to public health and safety
- Other Compliance Conditions (Compliance Component #3) – Imminent threat to public health and safety
- Tank Integrity (Compliance Component #2) – Failing to protect groundwater
- Other Compliance Conditions (Compliance Component #3) – Failing to protect groundwater
- Soil Separation (Compliance Component #4) – Failing to protect groundwater
- Operating permit/monitoring plan requirements (Compliance Component #5) – Noncompliant

### Property Information

Parcel ID# or Sec/Twp/Range: \_\_\_\_\_

Property address: 48702 - 187<sup>th</sup> Place McGregor MN Reason for inspection: Property Transfer

Property owner: Marian Beattie Owner's phone: 562-673-2596

or

Owner's representative: Kathy (Aspen Realty) Representative phone: 218-393-1767

Local regulatory authority: Aitkin County Regulatory authority phone: 218-927-7342

Brief system description: 1500 gallon combo tank with FAST treatment unit, to 500 gallon lift, to 15' x 40' pressure bed

Comments or recommendations:

### Certification

I hereby certify that all the necessary information has been gathered to determine the compliance status of this system. No determination of future system performance has been nor can be made due to unknown conditions during system construction, possible abuse of the system, inadequate maintenance, or future water usage.

Inspector name: Brian Koski Certification number: 7989

Business name: Septic Check License number: 2624

Inspector signature:  Phone number: 320-983-2447

### Necessary or Locally Required Attachments

- Soil boring logs
- System/As-built drawing
- Forms per local ordinance
- Other information (list): \_\_\_\_\_

**1. Impact on Public Health – Compliance component #1 of 5**

Compliance criteria:	
System discharges sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharges sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System causes sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Any “yes” answer above indicates the system is an imminent threat to public health and safety.**

- Verification method(s):**
- Searched for surface outlet
  - Searched for seeping in yard/backup in home
  - Excessive ponding in soil system/D-boxes
  - Homeowner testimony (See Comments/Explanation)
  - “Black soil” above soil dispersal system
  - System requires “emergency” pumping
  - Performed dye test
  - Unable to verify (See Comments/Explanation)
  - Other methods not listed (See Comments/Explanation)

Comments/Explanation:

**2. Tank Integrity – Compliance component #2 of 5**

Compliance criteria:	
System consists of a seepage pit, cesspool, drywell, or leaching pit. <i>Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Any “yes” answer above indicates the system is failing to protect groundwater.**

- Verification method(s):**
- Probed tank(s) bottom
  - Examined construction records
  - Examined Tank Integrity Form (Attach)
  - Observed liquid level below operating depth
  - Examined empty (pumped) tanks(s)
  - Probed outside tank(s) for “black soil”
  - Unable to verify (See Comments/Explanation)
  - Other methods not listed (See Comments/Explanation)

Comments/Explanation:

Tanks were pumped and inspected in 2016 after servicing the system

**3. Other Compliance Conditions – Compliance component #3 of 5**

- a. Maintenance hole covers are damaged, cracked, unsecured, or appear to be structurally unsound.  Yes\*  No  Unknown
- b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safety.  Yes\*  No  Unknown  
**\*System is an imminent threat to public health and safety.**

Explain:

- c. System is non-protective of ground water for other conditions as determined by inspector.  Yes\*  No  
**\*System is failing to protect groundwater.**

Explain:

**4. Soil Separation – Compliance component #4 of 5**

Date of installation: 8/16/2004  Unknown  
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging?  Yes  No

**Compliance criteria:**

For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:  Yes  No  
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:  Yes  No  
Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.\*

"Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.2350 or 7080.2400 (Advanced Inspector License required)  Yes  No  
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

**Verification method(s):**

Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local requirements differ.

- Conducted soil observation(s) (Attach boring logs)
- Two previous verifications (Attach boring logs)
- Not applicable (Holding tank(s), no drainfield)
- Unable to verify (See Comments/Explanation)
- Other (See Comments/Explanation)

**Comments/Explanation:**

Aitkin county verified soils at the time of the installaiton.

**Indicate depths or elevations**

A. Bottom of distribution media	98.5
B. Periodically saturated soil/bedrock	96.5
C. System separation	2'
D. Required compliance separation*	2'

\*May be reduced up to 15 percent if allowed by Local Ordinance.

**Any "no" answer above indicates the system is failing to protect groundwater.**

**5. Operating Permit and Nitrogen BMP\* – Compliance component #5 of 5  Not applicable**

Is the system operated under an Operating Permit?  Yes  No **If "yes", A below is required**

Is the system required to employ a Nitrogen BMP?  Yes  No **If "yes", B below is required**

BMP = Best Management Practice(s) specified in the system design

**If the answer to both questions is "no", this section does not need to be completed.**

**Compliance criteria**

a. Operating Permit number: 171 Have the Operating Permit requirements been met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b. Is the required nitrogen BMP in place and properly functioning?	<input type="checkbox"/> Yes <input type="checkbox"/> No

**Any "no" answer indicates Noncompliance.**

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

<b>Date Completed :</b>	3/30/2017
<b>Completed By :</b>	Brian Koski
<b>Client / Project :</b>	Marian Beattie
<b>Landscape position :</b>	
<b>Mapped soil type :</b>	

<b>Observation # :</b>	SB 1
<b>Equipment :</b>	bucket auger
<b>Limiting Layer :</b>	see below
<b>Vegetation:</b>	Lawn
<b>Weather :</b>	partly cloudy

<i>Observation # :</i>		<i>Primary or Alternate Site</i>		<i>Elevation:</i>		
<b>Horizon Depth</b>	<b>Soil Texture</b>	<b>Matrix Color</b>	<b>Redox features</b>	<b>Shape</b>	<b>Grade</b>	<b>Consistence</b>
0-18"	loamy sand	10 YR 3/3		granular	weak	loose
18-28"	loamy sand	10 YR 4/3		single grain	loose	loose
28-36"	loamy sand	10 YR 5/3	redox @ 34" with gley soils	single grain	loose	loose

**Septic Check**

6074 Keystone Rd  
Milaca, MN 56353

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

**PROPERTY INFORMATION**

Marian Beattie  
Location: 48702 - 187th Place  
McGregor  
Tax ID: 29-1-508200  
  
Use: Residential, Single Family (3 bdrm)  
System Design Flow: 450  
GENERAL SYSTEM TYPE: FAST Res 1x Yr. No Test  
  
Owner: Marian Beattie

Mail To: Marian Beattie  
48702 - 187th Place  
McGregor, MN  
55760

Fold Here

Fold Here

**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Inspected: 03/30/2017 - Inspection Type: PROPERTY SALE - Correction Status: No corrections needed

Company: Septic Check      Work Performed By: Brian Koski      Submitted 04/04/2017 by: Brian Koski

**COMMENTS & GENERAL INSPECTION NOTES**

**No Deficiencies Noted**

Blower was running at 3.6 amps.

**GENERAL SITE & SYSTEM CONDITIONS**

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

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL**

**TANK: Trash Tank -1,500 Gal Combo**

Manufacturer: Local Manufacturer

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):	5"	
Compartment 1 Sludge accumulation (Inches, if other specify):	4"	
Pumping recommended:	NO	

**Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc. - MicroFAST 0.5**

Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5

This component was:	Fully Inspected	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
Cleaned filter element:	YES	
Unit audio/visual alarms functioning:	YES	
Vent(s) and observation ports clear from obstructions:	YES	
Vigorous boiling is occurring:	YES	
Effluent is visually clear:	YES	
The effluent smell is a damp, earthy odor (N/A = not observed):	YES	
pH level within normal operating range (6-9): (Enter N/A if not performed):	N/A	
Field sample performance results within operational limits (Enter N/A if not performed):	N/A	
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):	NO	
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO	
Pumping needed:	NO	

**TANK: Pump Tank****Manufacturer: Local Manufacturer**

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

**Panel: Control - 1 Pump Drainfield Dose Pump**

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	n/a	
Pump 1: off hours (override in parentheses - if present):	n/a	
Pump 1: gallons per dose (override in parentheses - if present):	n/a	
Pump 1: ETM hours (override in parentheses - if present):	n/a	
Pump 1: Cycle Count (override in parentheses - if present):	1058	

**Drainfield (disposal): Pressure Bed - 15' x 40' Pressure Bed****Manufacturer: Site Constructed**

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

**AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING**

**209 Second Street, NW Room# 100**

**Aitkin, Minnesota 56431**

**P H: (218) 927-7342**

**F X: (218) 927-4372**



4/18/2017

**Marian Beattie**  
**1 3401 ST ANDREWS DR 128G**  
**SEAL BEACH, CA 90740-**

Re: **Operating Permit # 171**  
**Zoning Permit #32117**  
**Parcel ID#29-1-508200**

**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

APR 10 2017

# SEPTIC CHECK

29-1-508200

EXPERT SERVICE. LASTING VALUE. CLEAN WATER

## Septic System Compliance Inspection – Existing System

DATE: 4/4/2017

**Property Owner:** Marian Beattie  
**Street Address:** 48702 – 187<sup>th</sup> Place  
**City, State, Zip:** McGregor MN

Marian,

A compliance inspection was performed at the above location. Soil borings were conducted to determine the seasonal high water table; the drain field was inspected to ensure there was no ponding or leakage, the tanks and FAST pretreatment system were also inspected. A copy of the compliance inspection and service reports are attached.

The original design and inspection records showed sandy soils with redox features at 34". The inspection report also showed the county verified soils at that time. The soil boring conducted at the time of this inspection found a very similar soil profile to the original records. Redox features were found at 34" in the soil boring we completed around the drainfield area. Now that two soils professionals have verified soils for this site, we will be recommending that the county consider the soil separation permanently verified. We will also recommend that effluent sampling be limited to fecal coliform only.

All other components of the system were in good operating condition, and the system was found to be compliant with all county and state requirements.

We recommend, and the county operating permit requires, this advanced system be serviced by a septic professional at least every 12 months. The new property owner should apply for a new county operating permit and hire a service provider to service the system. If you have any further question please contact us.

Sincerely,



Brian Koski, Lic. No. B-276130  
*Operation and Maintenance Manager*  
Cell: 218-428-0391  
[brian@septiccheck.com](mailto:brian@septiccheck.com)



# AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



**Past Due Renewal As Of: 5 /31/2017**

6/5/2017

Marian Beattie

13401 ST ANDREWS DR 128G

SEAL BEACH, CA 90740-

Re: Operating Permit # 171

Zoning Permit # 32117

Parcel ID# 29-1-508200

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

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

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

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

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

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

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

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

Sincerely,

Aitkin County Planning & Zoning

**AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING**

**209 Second Street, NW Room# 100**

**Aitkin, Minnesota 56431**

PH: (218) 927-7342

FX: (218) 927-4372

*OK to renew  
per PG*



6/27/2017

WAGNER, DOUGLAS SR & LIND  
11349 LOUISIANA AVENUE N  
CHAMPLIN, MN 55316

Re: Operating Permit # 171  
Zoning Permit #32117  
Parcel ID#29-1-508200

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**

**OPERATING PERMIT FOR WASTEWATER  
TREATMENT AND DISPERSAL**

**OPERATING PERMIT #:** 171

**ZONING PERMIT #:** 32117

**PARCEL #:** 29-1-508200

**PERMITEE:** WAGNER, DOUGLAS SR & LINDA

**MAILING ADDRESS:** 11349 LOUISIANA AVEN  
CHAMPLIN, MN 55316

**ORIGINAL DATE ISSUED:** 6 /30/2011

**RENEWAL PERIOD:**

**RENEWAL EXPIRATION:** 5 /31/2016

**PROPERTY ADDRESS:**

48702 187th Pl.

McGregor, MN 55760

**TELEPHONE:**

**LEGAL:** Lot 4, Blk 1, Floes Additions

**FEE PAID:** 100

**DATE PAID:**

**RECEIPT:**

**CK #:**

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

7-18-17

Date

7-18-17

  
Signature of Permitting Authority

Date

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

### A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

This system will utilize the Bio-microbics "FAST" aerobic tank to obtain one foot of separation credit to allow the pressurization of a 14X41' pressure bed. Costs: Installation: unkn, Cost of annual monitoring \$100, Cost of monthly operation \$10-15, Anticipated life 20-30 years.

### 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
Fecal Coliform	<10000 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	every 3 years
Fats, Oil and Greases	< 30 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	every 3 years
TSS	< 65 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	every 3 years
BOD5	< 220 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	every 3 years
Flow	450 gal per day	Water Meter	ANNUALLY	Record on Log Sheet	every 3 years

### C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Aerobic Tank Function	Aerobic Tank	ANNUAL
Flow	Water Meter	MONTHLY
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Surface Discharge	Dispersal System	ANNUAL
Vegetative Cover	Dispersal System	ANNUAL

Misc. (OFFICE USE ONLY) App. # App-2017-002150

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 07/18/2017 2:09 PM \$100		\$100.00	x 1	\$100.00	
<b>Grand Total</b>					
				<b>Total</b>	<b>\$100.00</b>
<b>Payment</b>					
<b>Method:</b>	Check	<b>Note:</b>	ck 5011 for renewal of operating permit 171		
<b>Date:</b>	07/18/2017				
<b>Made By:</b>	Linda Wagner				
<b>Confirmed By:</b>	Pete Gansen				

**AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING**

**209 Second Street, NW Room# 100**

**Aitkin, Minnesota 56431**

PH: (218) 927-7342

FX: (218) 927-4372



7/20/2017

WAGNER, DOUGLAS SR & LIN  
11349 LOUISIANA AVENU  
CHAMPLIN, MN 55316

Re: Operating Permit # 171  
Zoning Permit # 32117  
Parcel # 29-1-508200

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2018 .

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,

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



2/26/2018

WAGNER, DOUGLAS SR & LIND  
48702 187th PI  
McGregor, MN 55760

Re: Operating Permit # 171  
Zoning Permit #32117  
Parcel ID#29-1-508200

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

2018-003009

Misc. (OFFICE USE ONLY) Permit # 2018-2700  
 LINDA WAGNER  
 (000) 000-0000  
 48702 187TH PL, MCGREGOR, MN 55760

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](mailto:aitkinpz@co.aitkin.mn.us)

Charge		Cost	Quantity	Total	Note
Operating Permit Renewal added 04/25/2018 12:12 PM \$100		\$100.00	x 1	\$100.00	
<b>Grand Total</b>					
				<b>Total</b>	<b>\$100.00</b>
<b>Payment</b>					
<b>Method:</b>	Check	<b>Note:</b> CK 5073			
<b>Date:</b>	04/25/2018				
<b>Made By:</b>	LINDA WAGNER				
<b>Confirmed By:</b>	Kalea Fischer				



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

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

OPERATING PERMIT #: 171  
ZONING PERMIT #: 32117  
PARCEL #: 29-1-508200

PERMITTEE: WAGNER, DOUGLAS SR & LINDA

TELEPHONE:

MAILING ADDRESS:  
48702 187th PI  
McGregor, MN 55760

PROPERTY ADDRESS:  
48702 187th PI  
McGregor, MN 55760

LEGAL DESCRIPTION: Lot 4, Blk 1, Floes Additions

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

4-19-18  
Date

  
Signature of Permitting Authority

4-25-18  
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.

**Septic Check**6074 Keystone Rd  
Milaca, MN 56353320-983-2447  
Fax: 320-983-2151**PROPERTY INFORMATION**Douglas and Linda Wagner  
Location: 48702 - 187th Place  
McGregor  
Tax ID: 29-1-508200Use: Residential, Single Family (3 bdrm)  
System Design Flow: 450  
GENERAL SYSTEM TYPE: FAST Res 1x Yr. w/5 Yr. TestMail To: Douglas and Linda Wagner  
48702 - 187th Place  
McGregor, MN  
55760Fold  
HereFold  
Here**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Inspected: 04/12/2018 - Inspection Type: ROUTINE - Correction Status: Corrections in progress

Company:  
Septic CheckWork Performed By:  
Blesener DaveSubmitted 04/19/2018 by:  
Angie Tvedt**COMMENTS & GENERAL INSPECTION NOTES**

Deficiencies Were Noted: Corrections are in progress.

Septic Check recommends to have the first septic tank and the FAST system pumped out once the road restrictions are off.

**GENERAL SITE & SYSTEM CONDITIONS**

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

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL****TANK: Trash Tank -1,500 Gal Combo**

Manufacturer: Local Manufacturer

This component was:	Fully Inspected	
All required baffles in place (N/A = No baffles required):	YES	
Effluent level within operational limits (if NO explain in comments):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	8"	
Compartment 1 Sludge accumulation (Inches, if other specify):	14"	
Pumping recommended:	YES	

**Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc. - MicroFAST 0.5**

Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5

This component was:	Fully Inspected	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
Cleaned filter element:	YES	
Unit audio/visual alarms functioning:	YES	
Vent(s) and observation ports clear from obstructions:	YES	
Vigorous boiling is occurring:	YES	
Effluent is visually clear:	YES	
The effluent smell is a damp, earthy odor (N/A = not observed):	YES	
pH level within normal operating range (6-9): (Enter N/A if not performed):	N/A	
Field sample performance results within operational limits (Enter N/A if not performed):	N/A	
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):	YES	In Progress
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO	
Pumping needed:	YES	In Progress

**TANK: Pump Tank****Manufacturer: Local Manufacturer**

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

**Panel: Control - 1 Pump Drainfield Dose Pump**

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	N/A	
Pump 1: off hours (override in parentheses - if present):	N/A	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	N/A	
Pump 1: Cycle Count (override in parentheses - if present):	1505	

**Drainfield (disposal): Pressure Bed - 15' x 40' Pressure Bed****Manufacturer: Site Constructed**

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

# SEPTIC CHECK

6074 Keystone Rd.  
Milaca, MN 56353

4/19/2018

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

**RE: Operating Permit Reporting for 2018**

To Whom It May Concern:

Septic Check is in contract for inspecting this property since 2016, please note this on their account. The operating permit for this property is up for renewal this year, enclosed please find the annual inspection report for our contracted maintenance customer in your jurisdiction. Copies of the report were sent to the customer as well.

Reports for the following customer are enclosed:

Douglas and Linda Wagner                      PID: 29-1-508200

Please contact me at (320) 983-2447 with any questions.

Sincerely,



Brian Koski  
Enclosure(s)

PHONE 320-983-2447 • TOLL FREE 888-983-2447 • FAX 320-983-2151

6074 Keystone Road • Milaca, MN 56353 • [info@SepticCheck.com](mailto:info@SepticCheck.com) • [www.SepticCheck.com](http://www.SepticCheck.com)

*A Division of WEX Companies*

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

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



4/27/2018

WAGNER, DOUGLAS SR & LIN  
48702 187th Pl  
McGregor, MN 55760

Re: Operating Permit # 171  
Zoning Permit # 32117  
Parcel # 29-1-508200

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2019 .

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 "Kaleef".

Aitkin County Planning & Zoning

**Septic Check**

6074 Keystone Rd  
Milaca, MN 56353

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

Mail To: Douglas and Linda Wagner  
48702 - 187th Place  
McGregor, MN  
55760

**PROPERTY INFORMATION**

Douglas and Linda Wagner  
Location: 48702 - 187th Place  
McGregor  
Tax ID: 29-1-508200  
  
Use: Residential, Single Family (3 bdrm)  
System Design Flow: 450  
GENERAL SYSTEM TYPE: FAST Res 1x Yr. w/5 Yr. Test

Fold Here

**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Fold Here

Inspected: 05/10/2019 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:  
Septic Check

Work Performed By:  
Blesener Dave

Submitted 05/30/2019 by:  
Angie Tvedt

**COMMENTS & GENERAL INSPECTION NOTES**

**No Deficiencies Noted**

**GENERAL SITE & SYSTEM CONDITIONS**

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

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL**

**TANK: Trash Tank -1,500 Gal Combo**

Manufacturer: Local Manufacturer

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):	4"
Compartment 1 Sludge accumulation (Inches, if other specify):	12"
Pumping recommended:	NO

**Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer- Bio-Microbics, Inc. - MicroFAST 0.5**

Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5

This component was:	Fully Inspected
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES
Cleaned filter element:	YES
Unit audio/visual alarms functioning:	YES
Vent(s) and observation ports clear from obstructions:	YES
Vigorous boiling is occurring:	YES
Effluent is visually clear:	YES
The effluent smell is a damp, earthy odor (N/A = not observed):	YES
pH level within normal operating range (6-9): (Enter N/A if not performed):	N/A
Field sample performance results within operational limits (Enter N/A if not performed):	N/A
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. ( If Yes, pumping needed):	NO
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO
Pumping needed:	NO

**TANK: Pump Tank****Manufacturer: Local Manufacturer**

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

**Panel: Control - 1 Pump Drainfield Dose Pump**

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	N/A	
Pump 1: off hours (override in parentheses - if present):	N/A	
Pump 1: gallons per dose (override in parentheses - if present):	N/A	
Pump 1: ETM hours (override in parentheses - if present):	N/A	
Pump 1: Cycle Count (override in parentheses - if present):	1951	

**Drainfield (disposal): Pressure Bed -15' x 40' Pressure Bed****Manufacturer: Site Constructed**

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

**SAMPLING REPORT**

1/7/2020

Location: 48702 - 187th Place

McGregor

29-1-508200

Owner: Douglas and Linda Wagner

Use: Single Family

**Service Company:****Septic Check**

6074 Keystone Rd

Milaca, MN 56353

320-983-2447

Laboratory: A.W. Research Laboratories

**Sample Date: 05/10/2019**    **Sample entered by: Heather Johnson**    **Report submitted: 01/07/2020**

Notes:

**ONSITE SEWAGE SYSTEM SAMPLING DETAIL**

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump Drainfield Dose Pump	Effluent	Flow	<450 gpd	45.4
Pump Tank	Effluent	Fecal	000 cfu/100r	850

*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  
OPERATING PERMIT FOR WASTEWATER  
TREATMENT AND DISPERSAL RENEWAL**

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

OPERATING PERMIT #: 171  
ZONING PERMIT #: 32117  
PARCEL #: 29-1-508200

PERMITTEE: WAGNER, DOUGLAS SR & LINDA

TELEPHONE:

MAILING ADDRESS:  
48702 187th PI  
McGregor, MN 55760

PROPERTY ADDRESS:  
48702 187th PI  
McGregor, MN 55760

LEGAL DESCRIPTION: Lot 4, Blk 1, Floes Additions

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.

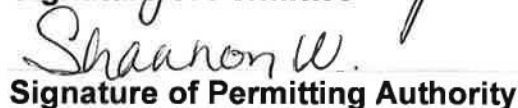
This permit is effective on the issuance date identified above.

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

5-10-19  
Date

  
Signature of Permitting Authority

5-10-19  
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 #47653 (05/10/2019)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) Permit # 2019-3976, App. # App-2019-004437, UID # 197688

Linda Wagner

(612) 990-2732

48702 187th Pl, McGregor, MN 55760

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 05/10/2019 11:47 AM \$100		\$100.00	x 1	\$100.00	
<b>Grand Total</b>					
				<b>Total</b>	<b>\$100.00</b>
<b>Payment #45025</b>					
<b>Method:</b>	Check		5164		
<b>Date:</b>	05/10/2019	<b>Note:</b>	48702 187th Pl, McGregor		
<b>Made By:</b>	Linda Wagner				
<b>Confirmed By:</b>	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



6/3/2019

WAGNER, DOUGLAS SR & LIN  
48702 187th PI  
McGregor, MN 55760

Re: Operating Permit # 171  
Zoning Permit # 32117  
Parcel # 29-1-508200

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2020 .

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, slightly slanted script.

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

Wagner, Douglas Sr & Linda  
48702 187th Pl  
McGregor, MN 55760

Re: Operating Permit # 171  
Zoning Permit #32117  
Parcel ID#29-1-508200

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:

- rec'd  
5-27-20*
- 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

**Septic Check**

6074 Keystone Rd  
Milaca, MN 56353

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

Mail To: Douglas and Linda Wagner  
48702 - 187th Place  
McGregor, MN  
55760

**PROPERTY INFORMATION**

Douglas and Linda Wagner  
Location: 48702 - 187th Place  
McGregor  
Tax ID: 29-1-508200  
  
Use: Residential, Single Family (3 bdrm)  
System Design Flow: 450  
GENERAL SYSTEM TYPE: FAST Res 1x Yr. w/5 Yr. Test

Fold Here

**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Inspected: 05/19/2020 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:  
Septic Check

Work Performed By:  
Blesener Dave

Submitted 05/27/2020 by:  
Heather Johnson

Fold Here

**COMMENTS & GENERAL INSPECTION NOTES**

**No Deficiencies Noted**

**GENERAL SITE & SYSTEM CONDITIONS**

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

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL**

**TANK: Trash Tank -1,500 Gal Combo**

Manufacturer: Local Manufacturer

This component was:	Fully Inspected	
Effluent level within operational limits (if NO explain in comments):	YES	
All required baffles in place (N/A = No baffles required):	YES	
Compartment 1 Scum accumulation (Inches, if other specify):	1	
Compartment 1 Sludge accumulation (Inches, if other specify):	8	
Pumping recommended:	NO	

**Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc. - MicroFAST 0.5**

Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5

This component was:	Fully Inspected	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
Cleaned filter element:	YES	
Unit audio/visual alarms functioning:	YES	
Vent(s) and observation ports clear from obstructions:	YES	
Vigorous boiling is occurring:	YES	
Effluent is visually clear:	YES	
The effluent smell is a damp, earthy odor (N/A = not observed):	YES	
pH level within normal operating range (6-9): (Enter N/A if not performed):	NO	
Field sample performance results within operational limits (Enter N/A if not performed):	N/A	
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):	NO	
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO	
Pumping needed:	NO	

**TANK: Pump Tank****Manufacturer: Local Manufacturer**

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

**Panel: Control - 1 Pump Drainfield Dose Pump**

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	NA	
Pump 1: off hours (override in parentheses - if present):	NA	
Pump 1: gallons per dose (override in parentheses - if present):	NA	
Pump 1: ETM hours (override in parentheses - if present):	NA	
Pump 1: Cycle Count (override in parentheses - if present):	2432	

**Drainfield (disposal): Pressure Bed -15' x 40' Pressure Bed****Manufacturer: Site Constructed**

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

# SAMPLING REPORT

5/27/2020

Location: 48702 - 187th Place

McGregor

**29-1-508200**

Owner: Douglas and Linda Wagner

Use: Single Family

## Service Company:

### Septic Check

6074 Keystone Rd

Milaca, MN 56353

320-983-2447

Sample Date: 05/19/2020 Sample entered by: Heather Johnson Report submitted: 05/27/2020

Notes:

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump Drainfield Dose Pump	Effluent	Flow	<450 gpd	41.4

*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.*

Invoice #49970 (05/27/2020)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) App. # App-2020-005812, UID # 200051

Linda Wagner

(218) 927-7342

48702 187th PI, McGregor, MN 55760

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
<b>Operating Permit Renewal</b> added 05/27/2020 12:13 PM \$150		\$150.00	x 1	\$150.00	
<b>Grand Total</b>					
				<b>Total</b>	<b>\$150.00</b>
<b>Payment #46454</b>					
<b>Method:</b>	Check		5351		
<b>Date:</b>	05/27/2020	<b>Note:</b>	48702 187th PI, McGregor 2020 Renewal of OP# 171		
<b>Made By:</b>	Linda Wagner				
<b>Confirmed By:</b>	Shannon Westerlund				



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

ISSUANCE DATE: 5/31/2020  
RENEWAL PERIOD: ANNUALLY

OPERATING PERMIT #: 171  
ZONING PERMIT #: 32117  
PARCEL #: 29-1-508200

PERMITTEE: Wagner, Douglas Sr & Linda

TELEPHONE:

MAILING ADDRESS:  
48702 187th PI  
McGregor, MN 55760

PROPERTY ADDRESS:  
48702 187th PI  
McGregor, MN 55760

LEGAL DESCRIPTION: Lot 4, Blk 1, Floes Additions

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

5-14-2020  
Date

  
Signature of Permitting Authority

5-27-20  
Date

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

**A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM**

This system will utilize the Bio-microbics "FAST" aerobic tank to obtain one foot of separation credit to allow the pressurization of a 14X41' pressure bed. Costs: Installation: unkn, Cost of annual monitoring \$100, Cost of monthly operation \$10-15, Anticipated life 20-30 years.

**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
Fecal Coliform	<10000 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	every 3 years
Fats, Oil and Greases	< 30 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	every 3 years
TSS	< 65 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	every 3 years
BOD5	< 220 mg/l	Aerobic Tank Effluent	ANNUALLY	Grab	every 3 years
Flow	450 gal per day	Water Meter	ANNUALLY	Record on Log Sheet	every 3 years

**C. MAINTENANCE REQUIREMENTS:**

PARAMETER	LOCATION	FREQUENCY
Aerobic Tank Function	Aerobic Tank	ANNUAL
Flow	Water Meter	MONTHLY
Pumps, Floats & Alarms	Pump Chamber	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 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.

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 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 performed by: Brian Koski

**E. MITIGATION PLAN:**

1) If weeping occurs; lower dosing rate, lower water usage, install pretreatment or increase absorption area. 2) A different or another Performance or Other System may be installed at the owner's expense. 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.

**AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING**  
**307 Second Street, NW Room# 219**  
**Aitkin, Minnesota 56431**

PH: (218) 927-7342

FX: (218) 927-4372



5/27/2020

Wagner, Douglas Sr & Linda  
48702 187th PI  
McGregor, MN 55760

Re: Operating Permit # 171  
Zoning Permit # 32117  
Parcel # 29-1-508200

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2021 .

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 blue ink that reads "Shannon W.".

Aitkin County Planning & Zoning

**Septic Check**

32117

6074 Keystone Rd  
Milaca, MN 56353

320-983-2447

Fax: 320-983-2151

Mail To: Douglas and Linda Wagner  
48702 - 187th Place  
McGregor, MN  
55760**PROPERTY INFORMATION**Douglas and Linda Wagner  
Location: 48702 - 187th Place  
McGregor  
Tax ID: 29-1-508200Use: Residential, Single Family (3 bdrm)  
System Design Flow: 450  
GENERAL SYSTEM TYPE: FAST Res 1x Yr. w/5 Yr. TestFold  
Here**ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT**

Inspected: 05/19/2020 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:  
Septic CheckWork Performed By:  
Blesener DaveSubmitted 05/27/2020 by:  
Heather JohnsonFold  
Here**COMMENTS & GENERAL INSPECTION NOTES****No Deficiencies Noted****GENERAL SITE & SYSTEM CONDITIONS**

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

**ONSITE SEWAGE SYSTEM INSPECTION DETAIL****TANK: Trash Tank -1,500 Gal Combo****Manufacturer: Local Manufacturer**

This component was:	Fully Inspected
Effluent level within operational limits (if NO explain in comments):	YES
All required baffles in place (N/A = No baffles required):	YES
Compartment 1 Scum accumulation (Inches, if other specify):	1
Compartment 1 Sludge accumulation (Inches, if other specify):	8
Pumping recommended:	NO

**Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc. - MicroFAST 0.5****Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5**

This component was:	Fully Inspected
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES
Cleaned filter element:	YES
Unit audio/visual alarms functioning:	YES
Vent(s) and observation ports clear from obstructions:	YES
Vigorous boiling is occurring:	YES
Effluent is visually clear:	YES
The effluent smell is a damp, earthy odor (N/A = not observed):	YES
pH level within normal operating range (6-9): (Enter N/A if not performed):	NO
Field sample performance results within operational limits (Enter N/A if not performed):	N/A
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):	NO
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO
Pumping needed:	NO



**TANK: Pump Tank****Manufacturer: Local Manufacturer**

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

**Panel: Control - 1 Pump Drainfield Dose Pump**

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	NA	
Pump 1: off hours (override in parentheses - if present):	NA	
Pump 1: gallons per dose (override in parentheses - if present):	NA	
Pump 1: ETM hours (override in parentheses - if present):	NA	
Pump 1: Cycle Count (override in parentheses - if present):	2432	

**Drainfield (disposal): Pressure Bed -15' x 40' Pressure Bed****Manufacturer: Site Constructed**

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

# SAMPLING REPORT

5/27/2020

Location: 48702 - 187th Place

McGregor

29-1-508200

Owner: Douglas and Linda Wagner

Use: Single Family

## Service Company:

### Septic Check

6074 Keystone Rd

Milaca, MN 56353

320-983-2447

Sample Date: 05/19/2020 Sample entered by: Heather Johnson Report submitted: 05/27/2020

Notes:

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump Drainfield Dose Pump	Effluent	Flow	<450 gpd	41.4

*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

307 Second St NW Room# 219

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



4/6/2021

Wagner, Douglas Sr & Linda  
48702 187th Pl  
McGregor, MN 55760

Re: Operating Permit # 171  
Zoning Permit #32117  
Parcel ID#29-1-508200

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:

- 4-23-21 / 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  
OPERATING PERMIT FOR WASTEWATER  
TREATMENT AND DISPERSAL RENEWAL**

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

OPERATING PERMIT # 171  
ZONING PERMIT #: 32117  
PARCEL #: 29-1-508200

PERMITTEE: Wagner, Douglas Sr & Linda

TELEPHONE:

MAILING ADDRESS:  
48702 187th PI  
McGregor, MN 55760

PROPERTY ADDRESS:  
48702 187th PI  
McGregor, MN 55760

LEGAL DESCRIPTION: Lot 4, Blk 1, Floes Additions

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

4-13-21  
Date

  
Signature of Permitting Authority

4-23-21  
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.

Invoice #52306 (04/23/2021)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) App. # App-2021-007168, UID # 202439

Linda Wagner

(218) 927-7342

48702 187th Pl, McGregor, MN 55760

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 04/23/2021 3:08 PM \$150		\$150.00	x 1	\$150.00	
<b>Grand Total</b>				<b>Total</b>	<b>\$150.00</b>
<b>Payment #47810</b>					
<b>Method:</b>	Check		5419		
<b>Date:</b>	04/23/2021	<b>Note:</b>	OP 171 2021 renewal		
<b>Made By:</b>	Linda Wagner				
<b>Confirmed By:</b>	Shannon Westerlund				

**AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING**

**307 Second Street, NW Room# 219**

**Aitkin, Minnesota 56431**

PH: (218) 927-7342

FX: (218) 927-4372



4/23/2021

Wagner, Douglas Sr & Linda  
48702 187th PI  
McGregor, MN 55760

Re: Operating Permit # 171  
Zoning Permit # 32117  
Parcel # 29-1-508200

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2022 .

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

# Septic Check

32117

6074 Keystone Rd  
Milaca, MN 56353

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

Mail To: Douglas and Linda Wagner  
48702 - 187th Place  
McGregor, MN  
55760

## PROPERTY INFORMATION

Douglas and Linda Wagner  
Location: 48702 - 187th Place  
McGregor  
Tax ID: 29-1-508200  
  
Use: Residential, Single Family (3 bdrm)  
System Design Flow: 450  
GENERAL SYSTEM TYPE: FAST Res 1x Yr. w/5 Yr. Test

Fold  
Here

## ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 04/20/2021 - Inspection Type: ROUTINE - Correction Status: Corrections in progress

Company:  
Septic Check

Work Performed By:  
Michael Pederson

Submitted 04/26/2021 by:  
Heather Johnson

Fold  
Here

### COMMENTS & GENERAL INSPECTION NOTES

#### No Deficiencies Noted

Pumping is recommended.

### GENERAL SITE & SYSTEM CONDITIONS

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

### ONSITE SEWAGE SYSTEM INSPECTION DETAIL

#### TANK: Trash Tank -1,500 Gal Combo

##### Manufacturer: Local Manufacturer

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):	5	
Compartment 1 Sludge accumulation (Inches, if other specify):	14	
Pumping recommended:	YES	

#### Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc. - MicroFAST 0.5

##### Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5

This component was:	Fully Inspected	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
Cleaned filter element:	NO	
Unit audio/visual alarms functioning:	YES	
Vent(s) and observation ports clear from obstructions:	YES	
Vigorous boiling is occurring:	YES	
Effluent is visually clear:	YES	
The effluent smell is a damp, earthy odor (N/A = not observed):	YES	
pH level within normal operating range (6-9): (Enter N/A if not performed):	N/A	
Field sample performance results within operational limits (Enter N/A if not performed):	N/A	
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):	NO	
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO	
Pumping needed:	NO	

**TANK: Pump tank****Manufacturer: Local Manufacturer**

This component was:	Fully Inspected	
Compartment 1 Scum accumulation (Inches, if other specify):	0	
Compartment 1 Sludge accumulation (Inches, if other specify):	1	
Pumping recommended:	NO	
<b>Panel: Control - 1 Pump Drainfield Dose Pump</b>		
This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	NA	
Pump 1: off hours (override in parentheses - if present):	NA	
Pump 1: gallons per dose (override in parentheses - if present):	NA	
Pump 1: ETM hours (override in parentheses - if present):	NA	
Pump 1: Cycle Count (override in parentheses - if present):	2845	
<b>Drainfield (disposal): Pressure Bed -15' x 40' Pressure Bed</b>		
<b>Manufacturer: Site Constructed</b>		
This component was:	Fully Inspected	
Lateral lines flushed:	NO	
Average squirt height (if performed) (feet, if other specify):	NA	
Ponding present? If YES explain in comments:	NO	

# SAMPLING REPORT

Location: 48702 - 187th Place

McGregor

29-1-508200

Owner: Douglas and Linda Wagner

Use: Single Family

Service Company:

Septic Check

6074 Keystone Rd

Milaca, MN 56353

320-983-2447

Laboratory: A W Labs

Sample Date: 04/20/2021 Sample entered by: Heather Johnson Report submitted: 04/27/2021

Notes:

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump Drainfield Dose Pump	Effluent	Flow	<450 gpd	39
Pump Tank	Effluent	Fecal	1000 cfu/100l	5730

*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

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

Wagner, Douglas Sr & Linda  
48702 187th PI  
McGregor, MN 55760

Re: Operating Permit # 171  
Zoning Permit # 32117  
Parcel ID# 29-1-508200

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

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 #56239 (09/26/2022)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) App. # App-2022-009587, UID # 206481

Jeffrey D Gelo

(612) 790-3191

16515 Prospect Pl, Wayzata, MN 55391

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 09/26/2022 3:48 PM \$150		\$150.00	x 1	\$150.00	
<b>Grand Total</b>				<b>Total</b>	<b>\$150.00</b>
<b>Payment #50223</b>					
<b>Method:</b>	Check		8701		
<b>Date:</b>	09/26/2022	<b>Note:</b>	OP 171 2022 renewal		
<b>Made By:</b>	Jeffrey D Gelo				
<b>Confirmed By:</b>	Shannon Wiebusch				



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

ISSUANCE DATE: 9 /30/2022  
RENEWAL PERIOD: ANNUALLY

OPERATING PERMIT #: 171  
ZONING PERMIT #: 32117  
PARCEL #: 29-1-508200

PERMITTEE: Jeffrey Gelo & Janet Delalley

TELEPHONE: 612-790-3191

MAILING ADDRESS:

~~16515 Prospect Pl~~ 11424 Utah Ave. N.  
~~Wayzata, MN 55391~~ Champlin, MN 55316

PROPERTY ADDRESS:

48702 187th Pl  
McGregor, MN 55760

LEGAL DESCRIPTION: Lot 4, Blk 1, Floes Additions

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

This permit is effective on the issuance date identified above.

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

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


Signature of Permittee



Date

9-14-22

Signature of Permitting Authority



Date

9-26-22

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



9/26/2022

Jeffrey Gelo & Janet Delalley  
11424 Utah Ave N  
Champlin, MN 55316

Re: Operating Permit # 171  
Zoning Permit # 32117  
Parcel # 29-1-508200

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,

Aitkin County Planning & Zoning



Aitkin County Environmental Services – Planning & Zoning

307 2<sup>nd</sup> 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 # 171

Zoning Permit # 32117

Parcel # 29-1-508200

Jeffrey Gelo & Janet Delalley  
16515 Prospect Pl  
Wayzata, MN 55391

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



Aitkin County Environmental Services – Planning & Zoning

307 2<sup>nd</sup> Street NW, Room 219

Aitkin, MN 56431

(P) (218) 927-7342

(F) (218) 927-4375

(E) [aitkinpz@co.aitkin.mn.us](mailto:aitkinpz@co.aitkin.mn.us)

**NOTICE: PAST DUE OPERATING PERMIT RENEWAL**

Operating Permit # 171

Zoning Permit # 32117

Parcel # 29-1-508200

NOVEMBER 3, 2023

Jeffrey Gelo & Janet Delalley

16515 Prospect Pl

Wayzata, MN 55391

This letter is to notify you that the operating permit for your septic system is expired as of September 30, 2023 and must be renewed. We sent you a letter on July 31, 2023 reminding you to renew, which was not acted upon. We request that you please submit all information in the enclosed renewal application by December 4, 2023. Incomplete applications will not be accepted. The operating permit was issued as part of the permit for your non-standard septic system and it must be renewed.

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 requirements could result in costly repairs and/or replacement of this system. Furthermore, failure to comply with renewal of this operating permit is a violation of the Aitkin County Subsurface Sewage Treatment System Ordinance and could result in a cease and desist order and/or a notice of noncompliance and a citation, which would result in a mandatory court appearance by the landowner.

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](mailto:shannon.wiebusch@co.aitkin.mn.us)

Enclosure: Operating Permit Renewal Application

# Septic Check

6074 Keystone Rd  
Milaca, MN 56353

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

Mail To: Jeff Gelo  
48702 - 187th Place  
McGregor, MN  
55760

## PROPERTY INFORMATION

Location: 48702 - 187th Place  
McGregor  
Tax ID: 29-1-508200

Use: Residential, Single Family (3 bdrm)  
System Design Flow: 450  
GENERAL SYSTEM TYPE: FAST Res 1x W/ TEST

Fold  
Here

## ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Fold  
Here

Inspected: 11/16/2023 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:  
Septic Check

Work Performed By:  
Kyle Wade

Submitted 11/21/2023 by:  
Heather Johnson

## COMMENTS & GENERAL INSPECTION NOTES

### No Deficiencies Noted

- Service visit was conducted today.
- All equipment reported to be in good working condition.
- No pumping necessary at this current time.
- Installation of an etm was completed after Jeff's approval.

## GENERAL SITE & SYSTEM CONDITIONS

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

## ONSITE SEWAGE SYSTEM INSPECTION DETAIL

### TANK: Trash Tank -1,500 Gal Combo

Manufacturer: Local Manufacturer

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):	2	
Compartment 1 Sludge accumulation (Inches, if other specify):	6	
Pumping recommended:	NO	

### Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc. - MicroFAST 0.5

Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5

This component was:	Fully Inspected	
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES	
Cleaned filter element:	YES	
Unit audio/visual alarms functioning:	YES	
Vent(s) and observation ports clear from obstructions:	YES	
Vigorous boiling is occurring:	YES	
Effluent is visually clear:	YES	
The effluent smell is a damp, earthy odor (N/A = not observed):	N/A	
pH level within normal operating range (6-9): (Enter N/A if not performed):	N/A	
Field sample performance results within operational limits (Enter N/A if not performed):	N/A	
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. (If Yes, pumping needed):	NO	
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO	
Pumping needed:	NO	

**TANK: Pump Tank****Manufacturer: Local Manufacturer**

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

**Panel: Control - 1 Pump Drainfield Dose Pump**

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	-	
Pump 1: off hours (override in parentheses - if present):	-	
Pump 1: gallons per dose (override in parentheses - if present):	-	
Pump 1: ETM hours (override in parentheses - if present):	.12	
Pump 1: Cycle Count (override in parentheses - if present):	3838-cc removed	

**Drainfield (disposal): Pressure Bed -15' x 40' Pressure Bed****Manufacturer: Site Constructed**

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

# SAMPLING REPORT

Location: 48702 - 187th Place

McGregor

29-1-508200

Owner: Jeff Gelo

Use: Single Family

## Service Company:

### Septic Check

6074 Keystone Rd

Milaca, MN 56353

320-983-2447

Laboratory: A W Labs

Sample Date: 11/17/2023 Sample entered by: Heather Johnson Report submitted: 11/21/2023

Notes: Flow is with the cycle counter. That was removed and an etm was installed. Flow meter shows 49.4 gpm. Next year the flow will be calculated from the etm #'s.

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump Drainfield Dose Pump	Effluent	Flow	<450 gpd	49
Pump Tank	Effluent	Fecal	1000 cfu/100l	<100



**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 System Operating Permit Renewal Application

Use this application to renew an operating permit.

<b>Operating Permit #</b>	171	<b>Zoning Permit #</b>	32117		
<b>Issuance Date:</b>	9/30/2023	<b>Expiration Date:</b>	9/30/2024	<b>Renewal Term:</b>	ANNUALLY

<b>Site Information</b>					
<b>Property ID:</b>	29-1-508200				
<b>Property Address:</b>	48702 187th PI	<b>City:</b>	McGregor	<b>Zip:</b>	55760
<b>Service Provider or Inspector Name:</b>	Septic Check	<b>License #:</b>			

<b>Contact Information</b>					
<b>Permittee Name:</b>	Jeffrey Gelo & Janet Delalley				
<b>Mailing Address:</b>	11424 Utah Ave N 16545 PROSPECT PL	<b>City:</b>	Champlin WAYZATA	<b>State:</b>	MN
<b>Email:</b>	JGelo @ Kennedy Scales . com		<b>Phone:</b>	612-740-3191	
			<b>Zip:</b>	55316	

### 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      New Due Date: **12/4/2023** Please make check payable to: Aitkin County  
     Late Fee Charged: + \$50  
     New Balance = **\$200**

### 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 2<sup>nd</sup> 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 address 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 tanks 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 **Septic Check** 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 occurs. Changes to the facility that could potentially impact performance of the wastewater treatment and dispersal system shall not take place until appropriate evaluation has 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 operation 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(s) of the permit requirements and the need to renew the operating permit.

Permittee (please print):		Permitting Authority (please print):	<i>Planning Zoning</i>	
Title:	Date:	Title:	<i>office Assistant</i>	Date: <i>12-5-23</i>
Permittee Signature:	<b>X</b>		Permitting Authority Signature:	<b>X</b> <i>Shannon Wilbusch</i>
	Permittee Signature			Aitkin County Representative Signature



Invoice #59095 (12/05/2023)  
 Misc. Receipt App. # App-2023-001333, UID # 209426  
 JEFFREY D GELO  
 (612) 790-3191  
 11424 UTAH AVE N, CHAMPLIN, MN 55316

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 Late Fee added 12/05/2023 9:39 AM	\$200.00	x 1	\$200.00	
<b>Grand Total</b>		<b>Total</b>	<b>\$200.00</b>	

Payment #51875

**Method:** Check 8746  
**Date:** 12/05/2023 **Note:** 2023 OP 171 LATE RENEWAL

**Made By:** JEFFREY D GELO

**Confirmed By:** Wiebusch, Shannon

**AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING**  
**307 Second Street NW Room 219**  
**Aitkin, Minnesota 56431**

Phone: (218) 927-734  
Email: [aitkinpz@co.aitkin.mn.us](mailto:aitkinpz@co.aitkin.mn.us)



12/5/2023

Jeffrey Gelo & Janet Delalley  
11424 Utah Ave N  
Champlin, MN 55316

Re: Operating Permit # 171  
Zoning Permit # 32117  
Parcel # 29-1-508200

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 9/30/2024 .

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 Service Provider/Inspector 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

# Septic Check

6074 Keystone Rd  
Milaca, MN 56353

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

Mail To: Jeff Gelo  
48702 - 187th Place  
McGregor, MN  
55760

## PROPERTY INFORMATION

Location: 48702 - 187th Place  
McGregor  
Tax ID: 29-1-508200

Use: Residential, Single Family (3 bdrm)  
System Design Flow: 450  
GENERAL SYSTEM TYPE: FAST Res 1x W/ TEST

Fold  
Here

## ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION REPORT

Inspected: 11/16/2023 - Inspection Type: ROUTINE - Correction Status: No corrections needed

Company:  
Septic Check

Work Performed By:  
Kyle Wade

Submitted 11/21/2023 by:  
Heather Johnson

Fold  
Here

## COMMENTS & GENERAL INSPECTION NOTES

### No Deficiencies Noted

- Service visit was conducted today.
- All equipment reported to be in good working condition.
- No pumping necessary at this current time.
- Installation of an etm was completed after Jeff's approval.

## GENERAL SITE & SYSTEM CONDITIONS

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

## ONSITE SEWAGE SYSTEM INSPECTION DETAIL

### TANK: Trash Tank -1,500 Gal Combo

Manufacturer: Local Manufacturer

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):	2
Compartment 1 Sludge accumulation (Inches, if other specify):	6
Pumping recommended:	NO

### Aerobic Treatment Unit: ATU - BioMicrobics - FAST, Manufacturer= Bio-Microbics, Inc. - MicroFAST 0.5

Manufacturer: Bio-Microbics, Inc. Model: MicroFAST 0.5

This component was:	Fully Inspected
Aerobic Mechanism appears to be functioning per manufacturers specifications:	YES
Cleaned filter element:	YES
Unit audio/visual alarms functioning:	YES
Vent(s) and observation ports clear from obstructions:	YES
Vigorous boiling is occurring:	YES
Effluent is visually clear:	YES
The effluent smell is a damp, earthy odor (N/A = not observed):	N/A
pH level within normal operating range (6-9): (Enter N/A if not performed):	N/A
Field sample performance results within operational limits (Enter N/A if not performed):	N/A
The first compartment settling zone sludge accumulation is greater than 18 inches or is within 6 inches of the connection point between the settling zone and treatment zone. ( If Yes, pumping needed):	NO
The second compartment treatment zone sludge accumulation is less than 3 inches from the FAST unit. (If Yes, pumping needed):	NO
Pumping needed:	NO

**TANK: Pump Tank****Manufacturer: Local Manufacturer**

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

**Panel: Control - 1 Pump Drainfield Dose Pump**

This component was:	Fully Inspected	
Panel functioning (including alarm):	YES	
Pump 1: on minutes (override in parentheses - if present):	-	
Pump 1: off hours (override in parentheses - if present):	-	
Pump 1: gallons per dose (override in parentheses - if present):	-	
Pump 1: ETM hours (override in parentheses - if present):	.12	
Pump 1: Cycle Count (override in parentheses - if present):	3838-cc removed	

**Drainfield (disposal): Pressure Bed -15' x 40' Pressure Bed****Manufacturer: Site Constructed**

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

# SAMPLING REPORT

Location: 48702 - 187th Place  
McGregor  
29-1-508200

Owner: Jeff Gelo  
Use: Single Family

## Service Company:

### Septic Check

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

Laboratory: A W Labs

Sample Date: 11/17/2023 Sample entered by: Heather Johnson Report submitted: 11/21/2023

Notes: Flow is with the cycle counter. That was removed and an etm was installed. Flow meter shows 49.4 gpm. Next year the flow will be calculated from the etm #'s.

## ONSITE SEWAGE SYSTEM SAMPLING DETAIL

COMPONENT	TYPE	SAMPLE	LIMIT	RESULT
Control - 1 Pump Drainfield Dose Pump	Effluent	Flow	<450 gpd	49
Pump Tank	Effluent	Fecal	1000 cfu/100ml	<100