

Zoning # 39936 # 10634 chunk

AITKIN COUNTY ENVIRONMENTAL SERVICES

rcpt 375245

APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

OP416

PERMITTEE GLEN & JOYCE WILDE PARCEL NUMBER 07-1-091000 ADDRESS 6721 Limerick Lane CITY Edina STATE MN ZIP 55439 SEC 5 TWP 46 RGE 27 BLOCK LOT ACRES TELEPHONE (952) 807-1455 GIS LOCATION SITE LOCATION 44217 336th Lane, Aitkin,, MN 56431 - Cedar Lake

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM:

1 FOOT SANDBASE MOUND EXCAVATED & "SHAPED" TO A 1% SLOPE WITH 3:1 BERMS SIZED FOR 3 BEDROOMS

This ISTS is to have the wastewater gravity from the proposed house into a 1650 Combination Septic Tank. The Liquids will flow into a 1500 gallon Lift Tank. The liquids will Timed Dosed & pump into a 26' x 72' 1 foot sandbase Mound with a 7' x 54' Rockbed constructed on a an area that has been excavated, filled and shaped to a 1% slope with 3:1 Berm Ratio.

Number of Bedrooms 3 Flow = 324 gpd (TIMED DOSED)

Hydraulic Loading Rate = 1.0 - 1.2 gpd/ft2

Organic Loading Rate = 0.00015 BOD/sqft

Flow x BOD(mg/l) x 8.35 ÷ 1,000,000 = #BOD (324 x 15 x 8.35 ÷ 1,000,000 = .040 BOD)

System Loading = organic loading ÷ area = BOD/sqft (.040 ÷ 378 = 0.00010 BOD/sqft)

Anticipated System Life = 20 years ±

Table with 2 columns: Estimated Cost of, and values for System Construction (\$10,000.00 ±), Operation (\$2.00 ± per month), and Monitoring, Testing & Service (\$150.00 per year).

**B. PERFORMANCE STANDARD REQUIREMENTS:**

During the period beginning on the date of the Operating Permit and lasting until the Permit's expiration date, the Permittee is authorized to discharge from the wastewater treatment unit to subsurface dispersal. No surface discharge is permitted.

The 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	<b>324 gpd (TIME DOSED)</b>	<b>Water Meter</b>	<b>Weekly</b>	<b>Record on Log Sheet</b>	<b>At time of Operating Permit Renewal</b>
5-Day BOD					
Total Nitrogen					
Total Phosphorus					
TSS					
Fats, Oils, Grease (FOG)					
Fecal Coliform					
Separation Distance	<b>3 foot Separation beneath Rock layer</b>	<b>Mound</b>	<b>Annually</b>	<b>Shoot Elevations, Soil Borings</b>	<b>Annually for minimum of 1 Year</b>

**C. MAINTENANCE REQUIREMENTS**

PARAMETER	LOCATION	FREQUENCY
<b>Daily Flow</b>	<b>Water Meter</b>	<b>Monthly (record on log sheet)</b>
<b>Sludge &amp; Scum Level</b>	<b>Septic Tank</b>	<b>Annually for minimum of 1 Year</b>
<b>Pump, Timers, Alarm, Floats, etc</b>	<b>Lift Tank</b>	<b>Annually for minimum of 1 Year</b>
<b>Acceptance of Effluent into ground and 3 foot of separation to water table.</b>	<b>Mound</b>	<b>Annually for minimum of 1 Year</b>
<b>Overall visual of entire system for landscaping, drainage and cover material</b>	<b>Mound, &amp; Tanks</b>	<b>Annually for minimum of 1 Year</b>

**D. MONITORING AND REPORTING REQUIREMENTS:**

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

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

2. The monitoring reports shall be signed by the Permittee. Copies are to be retained for your records.
3. 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 the Operating Permit.
4. Monitoring plans may be modified as necessary and reapproved by Aitkin County Environmental Services.
5. 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:**

1. If weeping problems should occur; lower dosing rate, lower water usage, increase distribution and 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 Licensed Pumper. A contract must be entered into with a Licensed Pumper.

**F. SPECIAL REQUIREMENTS:**

1. Mark A Ritter, a licensed ISTS firm, has agreed to perform all monitoring responsibilities, as outlined within this Operating Permit Application, for a period of 1 Year(s),

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

MICHAEL O'KEEFFE

(Name)



(Signature)

1357

(License #)

7/27/2013

(Date)

A.M. & ASSOCIATES, INC.

(Company Name)

29465 442<sup>nd</sup> LANE PALISADE, MN 56469

(Address)

(218) 768-4430

(Telephone)

**AITKIN COUNTY ENVIRONMENTAL SERVICES**

**OPERATING PERMIT FOR WASTEWATER  
TREATMENT AND DISPERSAL**

**OPERATING PERMIT #:** 416

**ZONING PERMIT #:** 39936

**PARCEL #:** 07-1-091000

**PERMITTEE:** Glen & Joyce Wilde

**MAILING ADDRESS:** 6721 Limerick Lane  
Edina, MN 55439

**ORIGINAL DATE ISSUED:** 9 /6 /2013

**RENEWAL PERIOD:**

**RENEWAL EXPIRATION:** 5 /31/2015

**PROPERTY ADDRESS:**

44217 336th Ln.  
Aitkin, MN 56431

**TELEPHONE:** (952) 807-1455

**LEGAL:** LOTS 9-12 & VACATED DRIVEWAY

**FEE PAID:** \$100

**DATE PAID:** 9 /6 /2013

**RECEIPT:** 375245


**CK #:** 10634

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

9/6/13  
Date



Signature of Permitting Authority

9-6-13  
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.

**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  
209 2nd Street NW, Room 100  
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: Mark Ritter

**E. MITIGATION PLAN:**

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