

AITKIN COUNTY
CERTIFICATE OF COMPLIANCE/NOTICE OF NONCOMPLIANCE

This certificate of compliance/notice of noncompliance has been issued this _____ day of 8/20/01 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: _____

Sheshebe Point

Section 21 Township 49 Range 23 Lake Minnewawa

PERMIT NO. 27905 Owner Name Jarvie Moline

Address 19585 484th St. McGregor, MN 55760

Installer Name E. Darlow

Type of System Inspected Sand Filter and pressure Bed

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

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

2) Review of as-built plans submitted in accordance with Subdivision 4.21 C. Of Aitkin County's Individual Sewage Treatment System and Wastewater Ordinance No. 1.

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

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

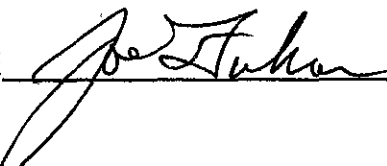
2) List of specific violations of Ordinance: _____

3) Requirements for correction or removal of violations: _____

4) Time schedule for compliance: _____

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

INSPECTOR SIGNATURE _____



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

Township Shamrock Date of Inspection 8/7/01 Permit Number 27905
 Owner Lorrie A Moline Parcel Number 29-1-151300
 Project Address Sheshebe Point Installer E. Darlow
 City _____ Zip Code _____ New Repair _____

SETBACKS:

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

SEPTIC TANKS:

Liquid capacity 1860 Combo
 Manufacturer & type Tec pre-cast
 Type of baffle plastic
 Inspection pipes 1-4" - 6"
 Manholes access 1
 No. & height of risers 12"

MOUNDS:

Percent slope _____
 Upslope dike width _____
 Downslope dike width _____
 Sideslope dike width _____
 Drainfield rock below pipe Pressure Bad
 Depth of sand below rock _____
 Perforation size & spacing 1/4 - 3'
 Pipe size & spacing 1 1/2" 4' laterals
 Dimensions of rock bed _____
 Dimensions of sand base _____
 Final cover _____

DIST. or DROP BOX & TYPE _____

TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:

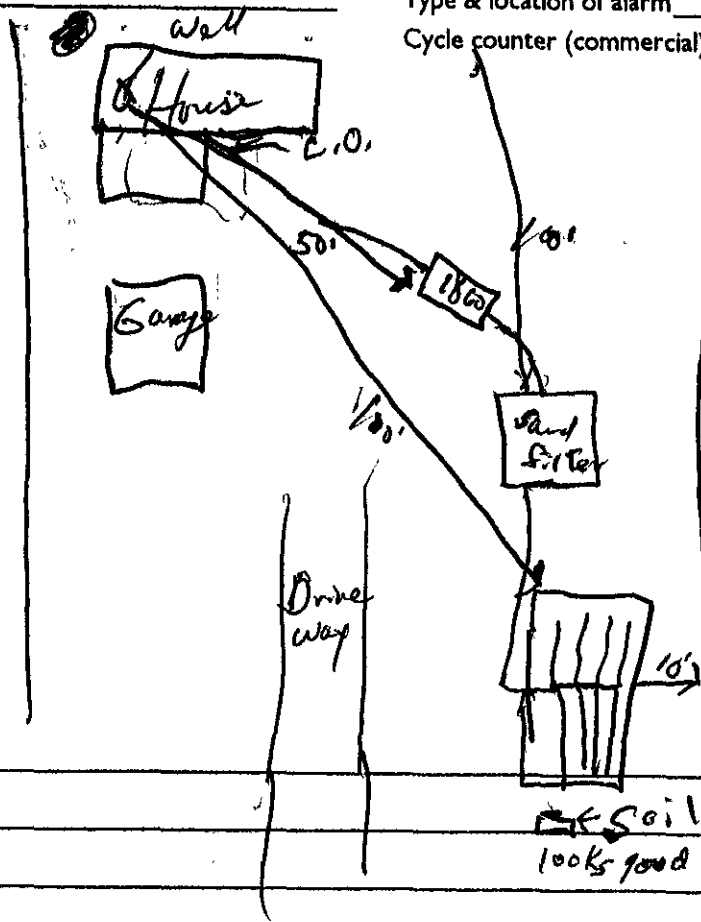
Trench depth 14"
 Trench length 40'
 Trench bottom width 10'
 Trench bottom level yes
 Trench spacing _____
 Drainfield rock below pipe 9"
 Size of gravelless pipe _____
 Depth of backfill 3' 6"
 Absorption area: square feet 576
 lineal feet _____

PUMPS:

Tank capacity 630 Combo
 Tank manufacturer & type Tec pre-cast
 No. & height of risers 12"
 Pump manufacturer & model# _____
 Horsepower & GPM _____
 Feet of head See Attached sheets
 Cycles per day _____
 Gallons per cycle _____
 Size of discharge line _____
 Type of electrical hookup _____
 Type & location of alarm _____
 Cycle counter (commercial) _____

DRAWING OF SYSTEM

Sand filter



12 X 30
sand filter
See application
for operating permit
on file 29-1-151300

Inspector's Comments _____

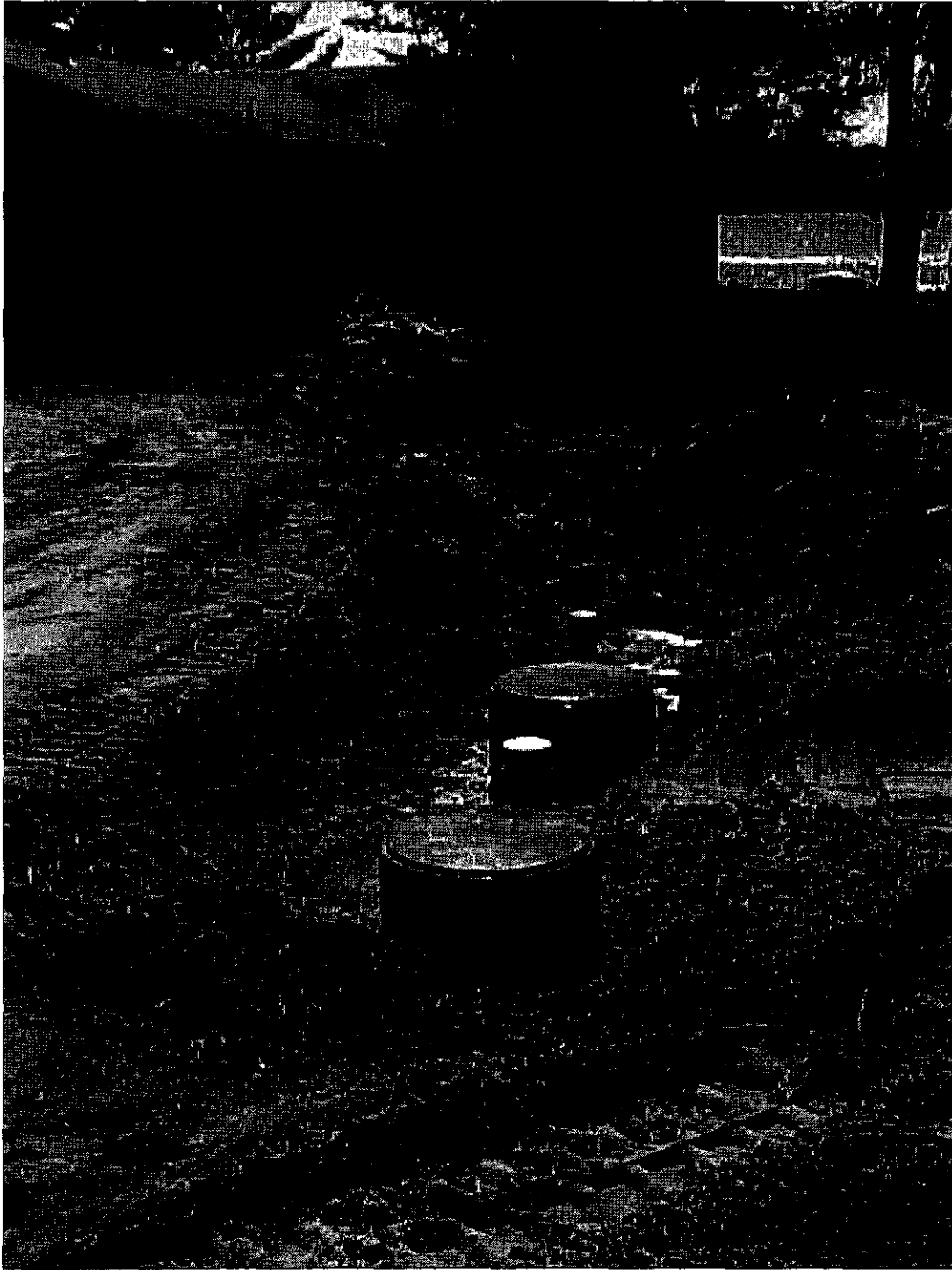
Corrective Action Required _____

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

Installer's Signature [Signature]
 Pink-Installer

John
Walsh
218-390-7453

27905



27905



AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW
Aitkin, Minnesota 56431

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



November 31, 2004

RE: Septic System Operating Permit,
-Second Mailing-

RECEIVED DEC 09 2004

send

To Whom It May Concern:

Aitkin County records indicate that your property is serviced by an "Other" septic system. The term "Other" refers to the fact during installation, some part of the system deviated from standard septic code. Minnesota State Statutes require that all "Other" septic systems be under a defined Operating Permit (Permit). This Permit ensures that the system is operating properly and that the monitoring and maintenance of the system is being conducted. This Permit is required by State of Minnesota Statutes and must be renewed annually until it can be documented that the system is operating according to design.

On February 26, 2004, our office sent a reminder letter (attached) to you to renew your septic system operating permit reiterating the pledge you submitted on your original operating permit. It is the responsibility of the landowner to ensure that the Operating Permit is renewed on an annual basis.

At this time, the Aitkin County Zoning Office has not received your 2004 Operating Permit.

To bring your property into compliance, you must submit ALL of the following documents within 30 days of receipt of this letter:

Check

1. Review and Sign the attached operating permit.

2. Attach the monitoring and maintenance report for your "Other" system that was conducted by a State Licensed Compliance ISTS professional (Note: I have attached a list of some of the individuals working in the area for your convenience).

3. Attach a log of the monthly or weekly water use readings (Note: if your property is not a year round home, you may not have full logs; just make notes and record the actual water use). If you do not have a water meter or flow measuring device, your system is not in compliance. Please call immediately so we may work out an appropriate timeline to bring your property into compliance.

4. Submit a check for \$50 payable to Aitkin County Planning and Zoning.

This was sent by O'Keefe's 1/04. I have attached a duplicate.

on the "O'Keefe" inspection report page 2

sent out last march - evidently you never received it? will send again

All incomplete submittals will be returned. Please note that monitoring and maintenance reports from Licensed ISTS professionals will not be accepted without being submitted as a complete package with the documents and fees listed above.

If you decide not to follow through and renew your operating permit, you must contact our office to discuss a timeline to legally remove or abandon your "Other" septic system by December 31, 2004. Options may include:

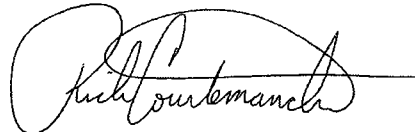
- A) Removing all running water from your home or cabin and providing a "water free" and legal way of dealing with your personal sewage needs, or
- B) Installing or converting your existing septic system to Holding tanks with a pumping contract with a State Licensed Pumper.

Owning and operating an "Other" septic system is a special deviation from Minnesota State Septic Code (Chapter 7080). In order to protect your ability to legally operate your septic system, and to avoid penalty fees and litigation, you must bring your property into compliance by renewing your operating permit or legally abandoning your septic system.

Once your system has been monitored and maintained as per the specific conditions of your Operating Permit for a reasonable time period, the Operating Permit may be reviewed and possibly made permanent (e.g., not subject to annual renewal). Please contact your designer responsible for monitoring and maintenance to discuss details and develop an appropriate timeline for your septic system.

If you have questions, or if you feel that you have received this letter in error, please contact me at your earliest convenience so that I can rectify the County records.

Sincerely,



Richard Courtemanche
Assistant Zoning Administrator
Aitkin County

Attachments

AITKIN COUNTY ENVIRONMENTAL SERVICES

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

RECEIVED DEC 09 2004

OPERATING PERMIT #: 61

FEE: \$50.00

PERMITTEE: Lorrie Moline

PHONE: (763) 441-8743

ADDRESS: 8231 163rd Ave NW
Ramsey, MN 55303-

ZONING PERMIT # 27905

PARCEL #: 29-1-151300

LEGALDESCRIPTION: Sheshebe Point Lot 84

ISSUE DATE 1/1/2004

EXPIRATION DATE 12/31/2006

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

3-1-04
Date



Signature of Permitting Authority

12-8-04
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.

RECEIVED DEC 09 20

**MAINTENANCE, MONITORING AND INSPECTION REPORT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
2nd YEAR SERVICE
2003**

(O'Keefe's sent you this 2/04)

Property Owner(s): **ED & LORRIE MOLINE**
 Home Address: **8231 163RD AVENUE NW** Site Address: **SHESHEBE POINT, LAKE MINNEWAWA**
RAMSEY, MN 55303
 Phone: **(763) 441-8743**
 Parcel Code: **29-1-151300** Township: **SHAMROCK**

*water readings
page 2*

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI SAND FILTER DISPERSING INTO A PRESSURE BED

This ISTS is to have the wastewater gravity from the existing 1350 gallon combination tank into a new 1500 gallon concrete lift tank. From there, the liquids are pumped into an 12' x 30' OSI Sand Filter. An OSI Pump Vault placed inside the Sand Filter will pump the treated liquids into a 12' x 48' Pressure Bed with 18 inches of separation below the bottom of the rocklayer.

Installation Date: 08/09/2001 Installer: Ernie Darlow Phone#: (218) 426-4320

MAINTENANCE & MONITORING RESULTS

CONTROL/ALARM PANEL	RESULTS
1. Check pump operations in manual mode	Good
2. Check timer settings	Good
3. Record elapsed time meter and counter readings.	ST ETM = 1192 min CNT = 1912
4. Confirm operation of audible and visual alarms	Good

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good
2. Inspect splice box for moisture and secure connections	Dry
3. Verify condition of and correct operation of all floats	Good
4. Verify neat wrap of float cords	Good
5. Pull pump and clean intake screen if necessary	Good
6. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Good
2. Clean (if needed)	Not necessary at this time.

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 0", Clear Zone = 0" - 36", No Scum on Top.
2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel.	Not necessary at this time.
3. Check general appearance	Good

MAINTENANCE & MONITORING RESULTS

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good
3. Verify proper orifice position, equal spray under orifices no clogged orifices	Good
4. Check for odors: adjust recirculating time (if necessary)	Good
5. Clean and flush manifold (if necessary)	Good
6. Re-check squirt height (if necessary)	Not necessary at this time.
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

DISPERSAL FIELD	RESULTS
1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)	No signs of failure.
2. Check for required separation	Not checked at this time.

MISCELLANEOUS	RESULTS		
	DATE	READING	GALLONS
1. Review water usage from water meter records.	11/24/2002	27830	
2.	02/09/2003	29050	1220
	04/19/2003	29680	630
	7/21/03	31180	1500

COMMENTS: ALL COMPONENTS LOOK GOOD.
OWNERS NEED TO RECORD WATER METER READINGS MONTHLY.

Date Maintained: 08/26/2003

Performed By: A.M. & Associates, Inc.
29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

Michael & Annette O'Keeffe

A. M. & Associates, Inc.

29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

*(O'Keefe's
sent you
this file)*

Michael D. O'Keefe
Annette M. O'Keefe
SEPTIC SYSTEMS
DESIGNS & INSPECTIONS
MPCA #1357

**ONE YEAR
MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
FOR YEAR 2004**

It is hereby agreed this 26 day of November, 2003 by and between A.M. & Associates, Inc. and

Property Owner(s): **ED & LORRIE MOLINE**

Parcel Code: **29-1-151300**

Home Address: **8231 163RD AVENUE NW
RAMSEY, MN 55303**

Site Address: **SHESEBE POINT, LAKE MINNEWAWA**

Phone (home) **(763) 441-8743**
(work)
(cell) **(612) 720-7768**
(fax)

Township **SHAMROCK**
Phone: **(218) 426-3780**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI 12' x 30' SAND FILTER DISPERSING INTO 12' X 48' PRESSURE BED

This ISTS is to have the wastewater gravity from the existing 1350 gallon combination tank into a new 1500 gallon concrete lift tank. From there, the liquids are pumped into an 12' x 30' OSI Sand Filter. An OSI Pump Vault placed inside the Sand Filter will pump the treated liquids into a 12' x 48' Pressure Bed with 18 inches of separation below the bottom of the rocklayer.

Installation Date: 08/09/2001

Installer: Ernie Darlow

Phone#: (218) 426-4320

That A.M. & Associates, Inc. will provide the services to perform Preventative Maintenance, Monitoring and Inspection of the parameters and frequency described herein as your Operating Permit requires for your Individual Sewage Treatment System (ISTS).

Each inspection includes an examination of the ISTS followed by a written report to the Property Owner. 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. A.M. & Associates, Inc. is authorized to submit a copy of the report to the pertaining County's Environmental Services Department.

This contract does not assume any responsibilities or obligations, which are normally the responsibilities of the Property Owner, 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.

A.M. & Associates, Inc. can only contract or subcontract for parts or labor after authorization by you. Billings for service calls shall be made on a case by case basis. This contract **only** covers maintenance, monitoring and inspection services per current pertaining County Operating Permit and **does not** cover alarm calls of any kind.

On-site Service Calls cost of a minimum of \$50.00 plus \$50.00 per hour for time and labor required from A.M. & Associates, due to alarms, misuse or abuse of any portion of this System, is the responsibility of the Property Owner(s), payable at time of Service. Minnesota Onsite Specialties fees for Service calls are separate.

All cost for parts time and labor, required to analyze, fix or replace any portion of this system, for damages caused by winter freezing, is the responsibility of the Property Owner(s).

All additional cost, time and labor required from A.M. & Associates, Inc. and/or Minnesota Onsite Specialties due to modifications made by the pertaining County's Environmental Services Department, is the responsibility of the Property Owner(s), and is payable within 20 days of billing.

In no event shall A.M. & Associates, Inc., Minnesota Onsite Specialties, or 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.

A.M. & Associates, Inc. shall be provided access to the site and the system in order to perform the following services that are marked:

CONTROL/ALARM PANEL (Annually)

- 1. Check pump operations in manual mode
- 2. Check timer settings
- 3. Record elapsed time meter and counter readings
- 4. Confirm operation of audible and visual alarms

LIFT PUMPING STATION (Annually)

- 1. Verify no leaks in riser
- 2. Inspect splice box for moisture and secure connections
- 3. Verify condition of and correct operation of all floats
- 4. Verify neat wrap of float cords
- 5. Visually inspect recirculating splitter valve (if applicable) and liquid level
- 6. Check general appearance

EFFLUENT FILTERS/PUMP SCREENS (Annually)

- 1. Check effluent filter for buildup of biomat growth
- 2. Clean (if needed)

SEPTIC TANK (Annually)

- 1. Measure sludge and scum level
- 2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel
 - * (If the test results determine a need for solids removal, the Property Owner will bear the cost and responsibility for doing so)
- 3. Check general appearance

PRETREATMENT DEVICE (Annually)

- 1. Inspect for ponding; assess character and color of biomat
- 2. Test pressurization of laterals (squirt test)
- 3. Verify proper orifice position, equal spray under orifices, no clogged orifices
- 4. Check for odors: adjust recirculating time (if necessary)
- 5. Clean and flush manifold (if necessary)
- 6. Re-check squirt height (if necessary)
- 7. Inspect the appearance of the wastewater inside the unit for color and turbidity.

DISPERSAL FIELD (Annually)

- 1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)
- 2. If liquid level monitors are installed, levels will be observed and recorded.
- 3. Flush filters and clean cartridges, if applicable
- 4. Check field control unit solenoid operations or manual control, if applicable
- 5. Check for required separation

SAMPLING (As Deemed Necessary)

- 1. Acquire and deliver samples for analysis of BODs, TSS, Fats Oils and Grease, and Fecal Coliform (cost of sampling analysis plus delivery charges is the responsibility of the Property Owner. If more than one analysis is recommended and required within the duration of this contract, the additional labor costs acquired by A.M. & Associates, Inc. along with sampling analysis fees and delivery charges is the responsibility of the Property Owner).

MISCELLANEOUS (Annually)

- 1. Review water usage from water meter records kept by the Property Owner.

***** PROPERTY OWNER'S RESPONSIBILITIES (Monthly and/or as Required)**

During the term hereof, I/we as the current Property Owner(s) understand that I/we;

- 1. Will provide A.M. & Associates, Inc. with access to the System. Access includes electrical controls & disconnects, hose hookup water supply and sufficient workspace to perform the necessary maintenance services
- 2. Will be responsible for recording water meter readings on a monthly basis.
- 3. Must *notify* A.M. & Associates, Inc. *immediately* when signs of weeping problems, sewage smell or any other indication that the system may not be functioning properly.
- 4. Will provide A.M. & Associates, Inc. copies of the water meter records, upon request.
- 5. Must acquire pre-authorization from A.M. & Associates, Inc., *prior* to the Property Owner or any other individual performing or attempts to:
 - a. make alterations or modifications to the System, or
 - b. misuse the System, or
 - c. attach devices to it, or
 - d. execute any type of Maintenance services to the system or any portion thereof
- 6. Will notify A.M. & Associates, Inc. of new ownership of property if within the duration of this contract.
- 7. Will accept all responsibility and risks involved with the installation and hydraulic performance of this Septic System and hold A.M. & Associates, Inc. harmless from all liability for this Sewage Treatment System whatsoever.
- 8. May be required to perform additional maintenance responsibilities as deemed necessary by A.M. & Associates, Inc.

This contract shall remain in force for a period of one year, beginning January 1st 2004 and ending December 31st 2004.

FEES

Maintenance, Monitoring & Inspection Service Contract	\$150.00	Due at time of signing contract
Sample Analysis Fees & Supplies	(approx) N/A	Due at time of sampling
*Time & Mileage to Deliver Samples for Analysis	N/A	Due at time of sampling

NOTE: SAMPLING OF FECAL COLIFORM, BOD, TSS, AND FATS OIL AND GREASE IS NOT REQUIRED AT THIS TIME. SAMPLING IS FOUND TO BE NECESSARY DURING THE DURATION OF THE USE OF THIS SEPTIC SYSTEM, THE PROPERTY OWNER(S) IS RESPONSIBLE FOR ALL COSTS INVOLVED, AND IS DUE AT TIME THE SAMPLES ARE TO BE TAKEN.

*If at time of sampling, the Property Owner(s) wishes to transport the samples to Brainerd himself for analysis, within the *required time limit*, A.M. & Associates, Inc. will wave the time, mileage delivery fees of \$100.00.

A.M. & Associates, Inc. agrees to provide inspection, monitoring and routine maintenance service only under this contract.

I hereby certify with my signature as the Property Owner(s) that I understand the provisions, requirements and responsibilities of this Maintenance, Monitoring and Inspection Service Contract. I also understand failure to comply with the requirements outlined in my Operating Permit, this Contract, along with any future requirements that may arise, set forth by Aitkin County Environmental Services, Orenco Systems, Inc. (OSI) or A.M. & Associates, Inc., could result in the condemning of my septic system, removal of the use of the drainfield, and require the use of Holding Tanks with a pumping Contract.

Property Owner(s):

Name: Edward P. Moline Edward P. Moline Date: 10-26-03
(please print) (signature)

Spouse: Lorrie Ann Moline Lorrie A. Moline Date: 10-26-03
(please print) (signature)

A.M. & Associates, Inc.:

Name: Michael D. O'Keeffe Michael D. O'Keeffe Date: 11-26-03
(please print) (signature)

27905 29-1-151300

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW
Aitkin, Minnesota 56431

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



June 2, 2005

RE: Renewed Operating Permit

To Whom It May Concern:

This letter is to inform you that your Operating Permit (No. 61) has been renewed until May 31, 2007. 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,

A handwritten signature in black ink, appearing to be "RC", enclosed within a hand-drawn oval.

Richard Courtemanche
Assistant Zoning Administrator
Aitkin County

AITKIN COUNTY ENVIRONMENTAL SERVICES

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

OPERATING PERMIT #: 61

FEE: \$50.00

PERMITTEE: Lorrie Moline

PHONE: (763) 441-8743

ADDRESS: 8231 163rd Ave NW
Ramsey, MN 55303-

ZONING PERMIT # 27905

PARCEL #: 29-1-151300

LEGALDESCRIPTION: Sheshebe Point Lot 84

ISSUE DATE 1/ 1/05

EXPIRATION DATE

12-31-06 (5-31-07)
12/31/05

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.

Lorrie A. Moline Edward P Moline
Signature of Permittee

5-25-05
Date

[Signature]
Signature of Permitting Authority

6-1-05
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

Gravity from existing 1350 combo tank into a new 1500 gallon concrete tank, then pumped to a 12' x 30' Sand filter the treated effluent is then pumped into a 12' x 48' Pressure Bed with 18" of separation.

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	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
Fats, Oil and Greases	< 30 mg/l	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
Fecal Coliform	< 1000 mg/l	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
Flow	450 gpd	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Separation	1 foot under rock bed	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY
TSS	< 65 mg/l	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Pressurization of Laterals	Sand Filter	ANNUAL
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Solids Removal & Water Tigtness	Septic tank(s)	ANNUAL
Surface Discharge	Dispersal System	ANNUAL
Vegetative Cover	Dispersal System	ANNUAL

D. MONITORING AND REPORTING REQUIREMENTS:

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

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

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

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

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

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

Monitoring will be done by Michael O'Keeffe

E. MITIGATION PLAN:

If weeping should occur, lower dosing rate, lower water usage, increase distribution area and absorption area. If problems occur with OSI sand filter, fix repair or replace at manufacturers recommendations. A different or another performance system maybe installed at the owners expense. As a last resort holding tanks may installed with a signed pumping contract with a licensed pumper.

F. SPECIAL REQUIREMENTS:

Homeowner may read and record the water meter readings.

A. M. & Associates, Inc.

29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
Annette M. O'Keeffe
SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

May 20, 2005

Ed & Lorrie Moline
8231 163rd Avenue NW
Ramsey, MN 55303
Parcel# 29-1-151300

RECEIVED MAY 31 2005

Dear Ed & Lorrie,

Your Septic System (OSI Sandfilter dispersing into a Pressure Bed) has been in operation for a little over 3 years. All components of this system has been working as designed. Because this is a seasonal residence, the minimal amount of usage this system is receiving, and the excellent results observed from the past three Maintenances performed on your entire Septic System, we are recommending to Rich Courtemanch at Aitkin Planning and Zoning that they allow **both** the renewal of the Operating Permit **and** the Maintenance and Monitoring be changed to every other year. This mean the Operating Permit you are about to renew will be good for the years 2005 and 2006. The Aitkin County Operating Permit fee of \$50.00 will cover **both** years. As for A.M. & Associates, Inc., we will **not** Maintain your System until the summer of 2006. I made notations on the Contract you just signed to reflect this recent change.

You will still be required to record your Water Meter readings *monthly*. These recordings played a part in the above decision.

You are also required to submit a copy of the following to Rich at the County in order for this to take effect:

- 1) A copy of this Letter (enclosed)
- 2) The Maintenance & Monitoring results for year 2004 (enclosed)
- 3) Your Monthly Water Meter readings for 2004 (included on page 2 of item #1)
- 4) A copy of the "Signed" Contract for Maintenance & Monitoring for year 2005-2006
- 5) (enclosed)
- 6) Your Completed Renewal Form for Operating Permit (you should have received from County)
- 7) A check to the County for \$50.00 for the 2005-2006 Operating Permit

If in the future, we find, that your Septic System is not functioning as designed, going back to "annual" Maintenance and Monitoring may be required.

If you have any questions, please feel free to give me a call.



Annette O'Keeffe
(218) 768-4430

**MAINTENANCE, MONITORING AND INSPECTION REPORT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
3rd YEAR SERVICE
2004**

Property Owner(s): **ED & LORRIE MOLINE**
 Home Address: **8231 163RD AVENUE NW** Site Address: **SHESEBE POINT, LAKE MINNEWAWA**
RAMSEY, MN 55303
 Phone: **(763) 441-8743**
 Parcel Code: **29-1-151300** Township: **SHAMROCK**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI SAND FILTER DISPERSING INTO A PRESSURE BED

**This ISTS is to have the wastewater gravity from the existing 1350 gallon combination tank into a new 1500 gallon concrete lift tank. From there, the liquids are pumped into an 12' x 30' OSI Sand Filter. An OSI Pump Vault placed inside the Sand Filter will pump the treated liquids into a 12' x 48' Pressure Bed with 18 inches of separation below the bottom of the rocklayer.
3 Bedrooms, 450 gpd, 13,500 gallons per month.**

Installation Date: 08/09/2001 Installer: Ernie Darlow Phone#: (218) 426-4320

2004 MAINTENANCE & MONITORING RESULTS

CONTROL/ALARM PANEL	RESULTS
1. Check pump operations in manual mode	Good
2. Check timer settings	Good
3. Record elapsed time meter and counter readings.	ST ETM = 1660 min CNT = 2666 SF ETM = 1583 min CNT = 1639
4. Confirm operation of audible and visual alarms	Good
5. Test Pump Amperage	Septic = 25 amps at Startup 11 amps during Run Time Sand Filter = 15 amps at Startup 11 amps during Run Time

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good
2. Inspect splice box for moisture and secure connections	Dry
3. Verify condition of and correct operation of all floats	Good
4. Verify neat wrap of float cords	Good
5. Pull pump and clean intake screen if necessary	Good
6. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Good
2. Clean (if needed)	Not necessary at this time.

A. M. & Associates, Inc.

29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
Annette M. O'Keeffe
SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

**TWO
ONE YEAR**
MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
FOR YEAR 2005 + 2006

It is hereby agreed this 16th day of May ~~March~~, 20 05 by and between A.M. & Associates, Inc. and

Property Owner(s): ED & LORRIE MOLINE
Home Address: 8231 163RD AVENUE NW
RAMSEY, MN 55303

Parcel Code: 29-1-151300
Site Address: SHESEBE POINT, LAKE MINNEWAWA

Phone (home) (763) 441-8743
(work)
(cell) (612) 720-7768

Township SHAMROCK
Phone: (218) 426-3780

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI 12' x 30' SAND FILTER DISPERSING INTO 12' X 48' PRESSURE BED

This ISTS is to have the wastewater gravity from the existing 1350 gallon combination tank into a new 1500 gallon concrete lift tank. From there, the liquids are pumped into an 12' x 30' OSI Sand Filter. An OSI Pump Vault placed inside the Sand Filter will pump the treated liquids into a 12' x 48' Pressure Bed with 18 inches of separation below the bottom of the rocklayer.

Installation Date: 08/09/2001

Installer: Ernie Darlow

Phone#: (218) 426-4320

That A.M. & Associates, Inc. will provide the services to perform Preventative Maintenance, Monitoring and Inspection of the parameters and frequency described herein as your Operating Permit requires for your Individual Sewage Treatment System (ISTS).

Each inspection includes an examination of the ISTS followed by a written report to the Property Owner. 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. A.M. & Associates, Inc. is authorized to submit a copy of the report to the pertaining County's Environmental Services Department.

This contract does not assume any responsibilities or obligations, which are normally the responsibilities of the Property Owner, 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.

A.M. & Associates, Inc. can only contract or subcontract for parts or labor after authorization by you. Billings for service calls shall be made on a case by case basis. This contract **only** covers maintenance, monitoring and inspection services per current pertaining County Operating Permit and **does not** cover alarm calls of any kind.

On-site Service Calls cost of a minimum of \$50.00 plus \$50.00 per hour for time and labor required from A.M. & Associates, due to alarms, misuse or abuse of any portion of this System, is the responsibility of the Property Owner(s), payable at time of Service. Minnesota Onsite Specialties fees for Service calls are separate.

All cost for parts time and labor, required to analyze, fix or replace any portion of this system, for damages caused by winter freezing, is the responsibility of the Property Owner(s).

All additional cost, time and labor required from A.M. & Associates, Inc. and/or Minnesota Onsite Specialties due to modifications made by the pertaining County's Environmental Services Department, is the responsibility of the Property Owner(s), and is payable within 20 days of billing.

In no event shall A.M. & Associates, Inc., Minnesota Onsite Specialties, or 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.

A.M. & Associates, Inc. shall be provided access to the site and the system in order to perform the following services that are marked:

CONTROL/ALARM PANEL (Annually)

- 1. Check pump operations in manual mode
- 2. Check timer settings
- 3. Record elapsed time meter and counter readings
- 4. Confirm operation of audible and visual alarms

LIFT PUMPING STATION (Annually)

- 1. Verify no leaks in riser
- 2. Inspect splice box for moisture and secure connections
- 3. Verify condition of and correct operation of all floats
- 4. Verify neat wrap of float cords
- 5. Visually inspect recirculating splitter valve (if applicable) and liquid level
- 6. Check general appearance

EFFLUENT FILTERS/PUMP SCREENS (Annually)

- 1. Check effluent filter for buildup of biomat growth
- 2. Clean (if needed)

SEPTIC TANK (Annually)

- 1. Measure sludge and scum level
- 2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel
* (If the test results determine a need for solids removal, the Property Owner will bear the cost and responsibility for doing so)
- 3. Check general appearance

PRETREATMENT DEVICE (Annually)

- 1. Inspect for ponding; assess character and color of biomat
- 2. Test pressurization of laterals (squirt test)
- 3. Verify proper orifice position, equal spray under orifices, no clogged orifices
- 4. Check for odors: adjust recirculating time (if necessary)
- 5. Clean and flush manifold (if necessary)
- 6. Re-check squirt height (if necessary)
- 7. Inspect the appearance of the wastewater inside the unit for color and turbidity.

DISPERSAL FIELD (Annually)

- 1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)
- 2. If liquid level monitors are installed, levels will be observed and recorded.
- 3. Flush filters and clean cartridges, if applicable
- 4. Check field control unit solenoid operations or manual control, if applicable
- 5. Check for required separation

SAMPLING (As Deemed Necessary)

- 1. Acquire and deliver samples for analysis of BODs, TSS, Fats Oils and Grease, and Fecal Coliform (cost of sampling analysis plus delivery charges is the responsibility of the Property Owner. If more than one analysis is recommended and required within the duration of this contract, the additional labor costs acquired by A.M. & Associates, Inc. along with sampling analysis fees and delivery charges is the responsibility of the Property Owner).

MISCELLANEOUS (Annually)

- 1. Review water usage from water meter records kept by the Property Owner.

***** PROPERTY OWNER'S RESPONSIBILITIES (Monthly and/or as Required)**

During the term hereof, I/we as the current Property Owner(s) understand that I/we;

- 1. Will provide A.M. & Associates, Inc. with access to the System. Access includes electrical controls & disconnects, hose hookup water supply and sufficient workspace to perform the necessary maintenance services
- 2. Will be responsible for recording water meter readings on a monthly basis.
- 3. Must *notify* A.M. & Associates, Inc. *immediately* when signs of weeping problems, sewage smell or any other indication that the system may not be functioning properly.
- 4. Will provide A.M. & Associates, Inc. copies of the water meter records, upon request.
- 5. Must acquire pre-authorization from A.M. & Associates, Inc., *prior* to the Property Owner or any other individual performing or attempts to:
 - a. make alterations or modifications to the System, or
 - b. misuse the System, or
 - c. attach devices to it, or
 - d. execute any type of Maintenance services to the system or any portion thereof
- 6. Will notify A.M. & Associates, Inc. of new ownership of property if within the duration of this contract.
- 7. Will accept all responsibility and risks involved with the installation and hydraulic performance of this Septic System and hold A.M. & Associates, Inc. harmless from all liability for this Sewage Treatment System whatsoever.
- 8. May be required to perform additional maintenance responsibilities as deemed necessary by A.M. & Associates, Inc.

This contract shall remain in force for a period of one year, beginning January 1st 2005 and ending December 31st 2005. 2006 (Changes to Contract made By Annette O'Keefe)

FEES

Maintenance, Monitoring & Inspection Service Contract **\$150.00** Due at time of signing contract

Sample Analysis Fees & Supplies (approx) **N/A** Due at time of sampling

***Time & Mileage to Deliver Samples for Analysis** **N/A** Due at time of sampling

NOTE: SAMPLING OF FECAL COLIFORM, BOD, TSS, AND FATS OIL AND GREASE IS *NOT* REQUIRED AT THIS TIME. IF SAMPLING IS FOUND TO BE NECESSARY DURING THE DURATION OF THE USE OF THIS SEPTIC SYSTEM, THE PROPERTY OWNER(S) IS RESPONSIBLE FOR ALL COSTS INVOLVED, AND IS DUE AT TIME THE SAMPLES ARE TO BE TAKEN.

*If at time of sampling, the Property Owner(s) wishes to transport the samples to Brainerd himself for analysis, within the *required time limit*, A.M. & Associates, Inc. will wave the time, mileage delivery fees of \$100.00.

A.M. & Associates, Inc. agrees to provide inspection, monitoring and routine maintenance service only under this contract.

I hereby certify with my signature as the Property Owner(s) that I understand the provisions, requirements and responsibilities of this Maintenance, Monitoring and Inspection Service Contract. I also understand failure to comply with the requirements outlined in my Operating Permit, this Contract, along with any future requirements that may arise, set forth by Aitkin County Environmental Services, Orenco Systems, Inc. (OSI) or A.M. & Associates, Inc., could result in the condemning of my septic system, removal of the use of the drainfield, and require the use of Holding Tanks with a pumping Contract.

Property Owner(s):

Name: Edward P. Moline Edward Moline Date: 3-9-05
(please print) (signature)

Spouse: Lorrie Ann Moline Lorrie Moline Date: 3-9-05
(please print) (signature)

A.M. & Associates, Inc.:

Name: Michael D. O'Keefe Michael D. O'Keefe Date: 5-16-05
(please print) (signature)

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

ISSUANCE DATE: 5 /31/2014
RENEWAL PERIOD: 5 YEAR

OPERATING PERMIT #: 61
ZONING PERMIT #: 27905
PARCEL #: 29-1-151300

PERMITTEE: Lorrie Moline

TELEPHONE: ~~(763) 441-8743~~ 612-720-7768

MAILING ADDRESS:
8231 163rd Ave NW
Ramsey, MN 55303-

PROPERTY ADDRESS:
19585 484th St.
McGregor, MN 55760

LEGAL DESCRIPTION: Sheshebe Point Lot 84

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.

Lorrie A. Moline
Signature of Permittee

4-27-2014
Date

H. Hunz
Signature of Permitting Authority

5-23-14
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.

ck 12283 / Receipt 199208 \$100 5/23/14

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

Gravity from existing 1350 combo tank into a new 1500 gallon concrete tank, then pumped to a 12' x 30' Sand filter the treated effluent is then pumped into a 12' x 48' Pressure Bed with 18" of separation.

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
Separation	1 foot under rock bed	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY
Fecal Coliform	< 1000 mg/l	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
Fats, Oil and Greases	< 30 mg/l	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
TSS	< 65 mg/l	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
BOD5	< 220 mg/l	Sand Filter Effluent	ANNUALLY	Grab	ANNUALLY
Flow	450 gpd	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY

every 5 years.

effluent

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Pressurization of Laterals	Sand Filter	ANNUAL
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL
Surface Discharge	Dispersal System	ANNUAL
Vegetative Cover	Dispersal System	ANNUAL

D. MONITORING AND REPORTING REQUIREMENTS:

Monitoring results obtained during each calendar year shall be submitted no later than 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: A.M. & Associates I

E. MITIGATION PLAN:

If weeping should occur, lower dosing rate, lower water usage, increase distribution area and absorption area. If problems occur with OSI sand filter, fix repair or replace at manufacturers recommendations. A different or another performance system maybe installed at the owners expense. As a last resort holding tanks may installed with a signed pumping contract with a licensed pumper.

A. M. & Associates, Inc.

29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

October 1, 2013

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

r.e. Lorrie Moline Maintenance & Monitoring
Parcel # 29-1-151300
Located at:
19585 484th Street
McGregor, MN 55760

All components of Lorrie's Septic System is performing as designed. Therefore we are recommending to Aitkin County that your Operating Permit continues to be renewed every 5 years instead of annually. This means the Operating Permit Lorrie is about to renew will be good until May 31st 2018. The Operating Permit fee of \$100.00, required by Aitkin County should cover all 5 years.

Sincerely,



Michael D. O'Keeffe
Septic Systems Designer/Inspector
MPCA #1357

A. M. & Associates, Inc.

29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

MAINTENANCE, MONITORING AND INSPECTION REPORT FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM

June 1, 2008 thru May 31, 2013

Property Owner(s): **LORRIE MOLINE**
Home Address: **8231 163RD AVENUE NW** Site Address: **19585 484th STREET**
RAMSEY, MN 55303 **McGREGOR, MN 55760**
Phone: **(763) 441-8743**
Parcel Code: **29-1-151300** Township: **SHAMROCK**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI SAND FILTER DISPERSING INTO A PRESSURE BED

This ISTS is to have the wastewater gravity from the existing 1350 gallon combination tank into a new 1500 gallon concrete lift tank. From there, the liquids are pumped into an 12' x 30' OSI Sand Filter. An OSI Pump Vault placed inside the Sand Filter will pump the treated liquids into a 12' x 48' Pressure Bed with 18 inches of separation below the bottom of the rocklayer.
3 Bedrooms, 450 gpd, 13,500 gallons per month.

Installation Date: 08/09/2001 Installer: Ernie Darlow Phone#: (218) 426-4320

JUNE 2008 THRU MAY 2013 MAINTENANCE & MONITORING RESULTS

Date Maintained: 09/10/2013

CONTROL/ALARM PANEL	RESULTS
1. Check pump operations in manual mode	Good
2. Check timer settings	Good
3. Record elapsed time meter and counter readings.	ST ETM = 5393 min CNT = 8802 SF ETM = 4096 min CNT = 5369
4. Confirm operation of audible and visual alarms	Good
5. Test Pump Amperage	Good - Startup = 17, Runtime = 12

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good
2. Inspect splice box for moisture and secure connections	Dry
3. Verify condition of and correct operation of all floats	Good
4. Verify neat wrap of float cords	Good
5. Pull pump and clean intake screen if necessary	Unable to do - Union too tight
6. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Good
2. Clean (if needed)	Not necessary at this time.

JUNE 2008 THRU MAY 2013 MAINTENANCE & MONITORING RESULTS

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 6" to 8" Scum level = 4" to 6"
2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel.	Good
3. Check general appearance	Good

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good -height = #1, #2 & #4 = approx 2ft #3 & #5 = approx 3ft
3. Verify proper orifice position, equal spray under orifices no clogged orifices	Good
4. Check for odors; adjust recirculating time (if necessary)	Good
5. Clean and flush manifold (if necessary)	Good
6. Re-check squirt height (if necessary)	Not necessary at this time.
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

DISPERSAL FIELD	RESULTS
1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)	No signs of failure.
2. Check for required separation	18" of Separation below bottom of Rock

COMMENTS: ALL COMPONENTS LOOK GOOD.

THIS SYSTEM HAS BEEN IN USE FOR 12 YEARS AND CONTINUES TO OPERATING AS DESIGNED.

BECAUSE THIS IS A SEASONAL RESIDENCE AND THE MINIMAL USAGE OF THIS SEPTIC SYSTEM, A.M. & ASSOCIATES RECOMMENDS THAT THE OPERATING PERMIT AND MAINTENANCE & MONITORING CONTINUES TO BE FOR EVERY 5 YEARS.

THEREFORE, THE OPERATING PERMIT RENEWAL FOR 2013 SHOULD BE GOOD UNTIL MAY 31, 2018. THE NEXT MAINTENANCE WILL BE PERFORMED IN THE FALL OF 2017 OR SPRING OF 2018.



10/01/2013

A. M. & Associates, Inc.

29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

FIVE YEAR MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM FOR June 1st 2013 thru May 31st 2018

It is hereby agreed this 1st day of October, 20 13 by and between A.M. & Associates, Inc. and

Property Owner(s): LORRIE MOLINE
Home Address: 8231 163RD AVENUE NW
RAMSEY, MN 55303

Parcel Code: 29-1-151300
Site Address: 19585 484th STREET
McGREGOR, MN 55760

Phone (home) (763) 441-8743
(work) _____
(cell) _____

Township SHAMROCK
Phone: (218) 426-3780

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

OSI 12' x 30' SAND FILTER DISPERSING INTO 12' X 48' PRESSURE BED

This ISTS is to have the wastewater gravity from the existing 1350 gallon combination tank into a new 1500 gallon concrete lift tank. From there, the liquids are pumped into an 12' x 30' OSI Sand Filter. An OSI Pump Vault placed inside the Sand Filter will pump the treated liquids into a 12' x 48' Pressure Bed with 18 inches of separation below the bottom of the rocklayer.

Installation Date: 08/09/2001

Installer: Ernie Darlow

Phone#: (218) 426-4320

That A.M. & Associates, Inc. will provide the services to perform Preventative Maintenance, Monitoring and Inspection of the parameters and frequency described herein as your Operating Permit requires for your Individual Sewage Treatment System (ISTS).

Each inspection includes an examination of the ISTS followed by a written report to the Property Owner. 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. A.M. & Associates, Inc. is authorized to submit a copy of the report to the pertaining County's Environmental Services Department.

This contract does not assume any responsibilities or obligations, which are normally the responsibilities of the Property Owner, 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.

A.M. & Associates, Inc. can only contract or subcontract for parts or labor after authorization by you. Billings for service calls shall be made on a case by case basis. This contract **only** covers maintenance, monitoring and inspection services per current pertaining County Operating Permit and **does not** cover alarm calls of any kind.

On-site Service Calls cost of a minimum of \$50.00 plus \$50.00 per hour for time and labor required from A.M. & Associates, due to alarms, misuse or abuse of any portion of this System, is the responsibility of the Property Owner(s), payable at time of Service. Minnesota Onsite Specialties fees for Service calls are separate.

All cost for parts time and labor, required to analyze, fix or replace any portion of this system, for damages caused by winter freezing, is the responsibility of the Property Owner(s).

All additional cost, time and labor required from A.M. & Associates, Inc. and/or Minnesota Onsite Specialties due to modifications made by the pertaining County's Environmental Services Department, is the responsibility of the Property Owner(s), and is payable within 20 days of billing.

In no event shall A.M. & Associates, Inc., Minnesota Onsite Specialties, or 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.

A.M. & Associates, Inc. shall be provided access to the site and the system in order to perform the following services that are marked:

CONTROL/ALARM PANEL (Annually)

- 1. Check pump operations in manual mode
- 2. Check timer settings
- 3. Record elapsed time meter and counter readings
- 4. Confirm operation of audible and visual alarms

LIFT PUMPING STATION (Annually)

- 1. Verify no leaks in riser
- 2. Inspect splice box for moisture and secure connections
- 3. Verify condition of and correct operation of all floats
- 4. Verify neat wrap of float cords
- 5. Visually inspect recirculating splitter valve (if applicable) and liquid level
- 6. Check general appearance

EFFLUENT FILTERS/PUMP SCREENS (Annually)

- 1. Check effluent filter for buildup of biomat growth
- 2. Clean (if needed)

SEPTIC TANK (Annually)

- 1. Measure sludge and scum level
- 2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel
* (If the test results determine a need for solids removal, the Property Owner will bear the cost and responsibility for doing so)
- 3. Check general appearance

PRETREATMENT DEVICE (Annually)

- 1. Inspect for ponding; assess character and color of biomat
- 2. Test pressurization of laterals (squirt test)
- 3. Verify proper orifice position, equal spray under orifices, no clogged orifices
- 4. Check for odors: adjust recirculating time (if necessary)
- 5. Clean and flush manifold (if necessary)
- 6. Re-check squirt height (if necessary)
- 7. Inspect the appearance of the wastewater inside the unit for color and turbidity.

DISPERSAL FIELD (Annually)

- 1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)
- 2. If liquid level monitors are installed, levels will be observed and recorded.
- 3. Flush filters and clean cartridges, if applicable
- 4. Check field control unit solenoid operations or manual control, if applicable
- 5. Check for required separation

SAMPLING (As Deemed Necessary)

- 1. Acquire and deliver samples for analysis of BODs, TSS, Fats Oils and Grease, and Fecal Coliform (cost of sampling analysis plus delivery charges is the responsibility of the Property Owner. If more than one analysis is recommended and required within the duration of this contract, the additional labor costs acquired by A.M. & Associates, Inc. along with sampling analysis fees and delivery charges is the responsibility of the Property Owner).

MISCELLANEOUS (Annually)

- 1. Review water usage from water meter records kept by the Property Owner.

***** PROPERTY OWNER'S RESPONSIBILITIES (Monthly and/or as Required)**

During the term hereof, I/we as the current Property Owner(s) understand that I/we;

- 1. Will provide A.M. & Associates, Inc. with access to the System. Access includes electrical controls & disconnects, hose hookup water supply and sufficient workspace to perform the necessary maintenance services
- 2. Will be responsible for recording water meter readings on a *monthly* basis.
- 3. Must *notify* A.M. & Associates, Inc. *immediately* when signs of weeping problems, sewage smell or any other indication that the system may not be functioning properly.
- 4. Will provide A.M. & Associates, Inc. copies of the water meter records, upon request.
- 5. Must acquire pre-authorization from A.M. & Associates, Inc., *prior* to the Property Owner or any other individual performing or attempts to:
 - a. make alterations or modifications to the System, or
 - b. misuse the System, or
 - c. attach devices to it, or
 - d. execute any type of Maintenance services to the system or any portion thereof
- 6. Will notify A.M. & Associates, Inc. of new ownership of property if within the duration of this contract.
- 7. Will accept all responsibility and risks involved with the installation and hydraulic performance of this Septic System and hold A.M. & Associates, Inc. harmless from all liability for this Sewage Treatment System whatsoever.
- 8. May be required to perform additional maintenance responsibilities as deemed necessary by A.M. & Associates, Inc.

This contract shall remain in force for a period of 5 years, beginning June 1st 2013 and ending May 31st 2018.

A.M. & Associates, Inc. agrees to provide inspection, monitoring and routine maintenance service only under this contract.

I hereby certify with my signature as the Property Owner(s) that I understand the provisions, requirements and responsibilities of this Maintenance, Monitoring and Inspection Service Contract. I also understand failure to comply with the requirements outlined in my Operating Permit, this Contract, along with any future requirements that may arise, set forth by Aitkin County Environmental Services, Orenco Systems, Inc. (OSI) or A.M. & Associates, Inc., could result in the condemning of my septic system, removal of the use of the drainfield, and require the use of Holding Tanks with a pumping Contract.

Property Owner(s):

Name: Lorrie Ann Moline Lorrie A Moline Date: 10-24-13
(please print) (signature)

A.M. & Associates, Inc.:

Name: Michael D. O'Keeffe Michael D O'Keeffe Date: 10/01/2013
(please print) (signature)

A. M. & Associates, Inc.

29465 442nd Lane
Palisade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

October 1, 2013

Lorrie Moline
8231 163rd Avenue NW
Ramsey, MN 55303
Parcel# 29-1-151300

OP# 61
PH# 27905

Dear Lorrie,

All components of your Septic System is performing as designed. Therefore we are recommending to Aitkin County that your Operating Permit continues to be renewed every 5 years instead of annually. This means the Operating Permit you are about to renew will be good until May 31st 2018. The Operating Permit fee of \$100.00. required by Aitkin County should cover all 5 years.

In order for you to renew your 5 year Operating Permit with Aitkin County, they will require a copy of a signed Maintenance & Monitoring Contract between you and A.M. & Associates, Inc. Enclosed, you will find 3 copies of a new 5 year Service Contract with a one time Service, which is effective June 1, 2013 thru May 31, 2018.

Please read and sign page 4 of all 3 copies.

One copy is for Aitkin County

Mail "one" copy back to me.

Keep one copy for your records.

You are required to submit a copy of the following to Aitkin County in order for this to take effect:

- 1) The Maintenance & Monitoring results for June 1st 2008 thru May 31st 2013 (enclosed)
- 2) A copy of the "Signed" Contract for Maintenance & Monitoring for year June 1st 2013-May 31st 2018 (enclosed)
- 3) Your Completed Renewal Form for Operating Permit (provided by the County)
- 4) A check to the County for \$100.00 for the 2013-2018 Operating Permit)

If you have any questions, please feel free to give me a call.



Michael D. O'Keeffe
(218) 768-4430

MAINTENANCE & MONITORING RESULTS

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 18" Scum level = 3" from Top of Tank
2. Tank(s) should be pumped if the sludge layer is closer than 12" to the bottom of the inlet baffel or whenever the scum is closer than 3" to the bottom of the outlet baffel.	SUGGEST PUMPING IN SPRING OF 2005
3. Check general appearance	Good

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good -height = approx 3ft
3. Verify proper orifice position, equal spray under orifices no clogged orifices	Good
4. Check for odors; adjust recirculating time (if necessary)	Good
5. Clean and flush manifold (if necessary)	Good
6. Re-check squirt height (if necessary)	Not necessary at this time.
7. Inspect the appearance of the wastewater inside the unit for color and turbidity.	Effluent Clear

DISPERSAL FIELD	RESULTS
1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)	No signs of failure.
2. Check for required separation	Not checked at this time.

MISCELLANEOUS	RESULTS		
1. Review water usage from water meter records.	DATE	READING	GALLONS
	11/24/2002	27830	
	02/09/2003	29050	1220
	04/19/2003	29680	630

COMMENTS: ALL COMPONENTS LOOK GOOD.
OWNERS NEED TO RECORD WATER METER READINGS MONTHLY.

Date Maintained: 08/28/2004 Performed By: A.M. & Associates, Inc.
29465 442nd Lane
Palisade, MN 56469
(218) 768-4430
Michael & Annette O'Keeffe

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

PH: (218) 927-7342

FX: (218) 927-4372



5/23/2014

Lorrie Moline
8231 163rd Ave NW
Ramsey, MN 55303-

Re: Operating Permit # 61
Zoning Permit # 27905
Parcel # 29-1-151300

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,

Kristi K.

Aitkin County Planning & Zoning

SEPTIC SYSTEM REVIEW FOR
Lorrie Moline
Parcel # 29-1-151300
Operating permit #61

Property located in Shamrock Township

June 3, 2019

The above mentioned property has a time dosing panel with and elapsed time meter installed on it. On June 2009 the meter reading was 2,969. On May 2019 the meter reading was 5,318 with a difference of 2,349 min. So at 2,349 min. x 50 gallons per min. = 117,450 gallons divided by 3,620 days = 33 gallons per day average. The BOD5, TSS, FECAL, OIL and Grease are all within standards (see attached sheet).

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

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

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

Sincerely,



Mark P. Ritter
Ritter Sewer & Excavating, Inc.

Analysis Report

May 29, 2019

REPORT TO:

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

INVOICE TO:

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

Date Rcvd-Brnd: 5/7/2019
 Time Rcvd-Brnd: 14:40

Sampled By: Mark Ritter
 Sample Type: WW
 Recv Temp°C: 2.3 on ice

LOCATION:
 Moline - Operating #61

SITE / ANALYTE	Sample Date/Time	Analyzed Value	Units	Reporting Limit	Analytical Method	Analysis Date/Time	Analyst	Code #
Sand Filter to Mound Vault 5/7/2019 @ 11:20								
Biochemical Oxygen Demand, 5 Day		3.6	mg/L	2	SM 5210 B-2011	5/8/19 13:30	CJS	019871
Fecal Coliform		< 100	MPN/100mL	1	COLILERT-18 (FECAL COLI)	5/7/19 15:45	SK	019871
Residue-Nonfilterable (TSS)		6.8	mg/L	1	USGS I-3765-85	5/9/19 10:07	SK	019871

Approved By: 
 Sara Ahlers, Laboratory Director

Date Approved: 5/29/2019

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

~End of Analysis Report~



MINNESOTA VALLEY TESTING LABORATORIES, INC.

1126 North Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2 North German St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2616 East Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Hwy. ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.mvtl.com



Page: 1 of 1

SARA
A W RESEARCH LABORATORIES
16326 AIRPORT RD
BRAINERD MN 56401

Report Date: 23 May 2019
Lab Number: 19-A21254
Work Order #: 12-8477
Account #: 002432
Sample Matrix: WASTEWATER
Date Sampled: 7 May 2019 11:20
Date Received: 9 May 2019 10:05
PO #: CREDIT CARD

Project Name: MOLINE #61 RITTER

Sample Description: 19871-3 SAND FILTER TO MOUND

Temp at Receipt: 3.3C

	As Received Result		Method RL	Method Reference	Date Analyzed	Analyst
Oil and Grease	< 5	mg/L	5	EPA 1664B	22 May 19 11:45	MDK

Approved by:


 Dan O'Connell
 
 David Smahel
 Chemistry Laboratory Managers New Ulm, MN

RL = Reporting Limit

Analyses performed under our Minnesota Department of Health Accreditation conform to the current TNI standards. The reporting limit was elevated for any analyte requiring a dilution as coded below:

@ = Due to sample matrix

= Due to concentration of other analytes

! = Due to sample quantity

+ = Due to internal standard response

CERTIFICATION: MN LAB # 027-015-125 ND WW/DW # R-040

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

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

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

OPERATING PERMIT #: 61
ZONING PERMIT #: 27905
PARCEL #: 29-1-151300

PERMITTEE: Lorrie Moline

TELEPHONE: (612) 720-7768

MAILING ADDRESS:
11759 Undercliff St NW
Coon Rapids, MN 55433

PROPERTY ADDRESS:
19585 484th St
McGregor, MN 55760

LEGAL DESCRIPTION: Sheshebe Point Lot 84

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.

Lorrie A Moline
Signature of Permittee

Date *5-1-2019*

Shannon W.
Signature of Permitting Authority

Date *6-5-2019*

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 #47893 (06/05/2019)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) Permit # 2019-4123, App. # App-2019-004589, UID # 197930

Lorrie A. Moline

(218) 927-7342

8231 - 163rd Ave. NW, Ramsey, MN 55303

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 06/05/2019 3:20 PM \$100		\$100.00	x 1	\$100.00	
Grand Total					
				Total	\$100.00
Payment #45181					
Method:	Check		13128		
Date:	06/05/2019	Note:	8231 - 163rd Ave. NW, Ramsey, MN 55303		
Made By:	Lorrie A. Moline				
Confirmed By:	Jan Yearneau				

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



6/5/2019

Lorrie Moline
11759 Undercliff St NW
Coon Rapids, MN 55433

Re: Operating Permit # 61
Zoning Permit # 27905
Parcel # 29-1-151300

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 5/31/2024 .

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 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