

ZONING PERMIT APPLICATION

117

MK

FULL NAME Richard Nelson VIGSTOL TELE # 218-426-4288
 BIRTHDATE & DL # 01-10-44 U234-738-626-030 763-753-3858
 MAIL ADDRESS 21607 Dakota St NW OAK Grove MN 55303
 911 ADDRESS 49610 Hwy 65 McElegor mn 55760
 TOWNSHIP Shamrock
 LEGAL DESCRIPTION part of 600 Lot 5 of NE 1/4 of SW 1/4 am in sec
 SECTION 18 TOWNSHIP 49 RANGE 23

OFFICE USE ONLY

DATE 6-27-03 APPROVE / DENY APPROVE

PERMIT# 30601

PARCEL# 29-0-035100

RECEIPT# 5826

CONFORMING SEPTIC

YES P# _____ NO NEW

(circle) RESIDENTIAL _____ COMMERCIAL _____ ACCESSORY _____ NEW BUILDING _____ ALTERATION _____

BUILDING CONTRACTOR AND LICENSE NUMBER: self

SIZE OF ALL BUILDINGS COVERED BY THIS APPLICATION 1960 sqft (House w/ attached garage)

- ① 47 x 33 Residence
- ② 32 x 25 Garage
- ③ 12 x 16 deck
- ④ 60 x 8' deck (irregular)
- ⑤ septic (other)

COMMENTS: _____

DATA FOR SEWER CONSTRUCTION: INSTALLER Darlow or Rutter #BEDROOMS/GPD 3

DO NOT WRITE BELOW THIS LINE

ZONING DISTRICT & FLOOD PLAIN

ZONING DISTRICT S/L

LAKE/STREAM/RIVER NAME Big Sandy

LAKE/RIVER ID NUMBER 1-0062

LAKE/RIVER/STREAM CLASSIF. GD

PARCEL LOCATED IN FLOOD PLAIN? Y _____ N X

10/100 YR FLOOD ELEVATION 1223.9

LOWEST FLOOR ELEVATION 1224.9

ELEV. CERTIFICATE REQUIRED Y _____ N X

BEFORE CONSTRUCTION Y _____ N _____

AFTER CONSTRUCTION Y _____ N _____

STRUCTURE SETBACK DISTANCE REQUIREMENTS

(Measure from eaves or overhang)

OHW TO LAKE/RIVER/STREAM 75

PROPERTY LINE SETBACK 10'

SETBACK TO ROAD R-O-W 30'/TWSP 50'COV

SETBACK TO BLUFF 30'

SEPTIC SYSTEM SETBACK DISTANCES

SETBACK TO STRUCTURES 10' Tank 20' Druffld

OHW TO LAKE/RIVER 75

PROPERTY LINE SETBACK 10'

SETBACK TO ROAD R-O-W 10'

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

SOIL BORINGS 4+ SEPTIC DESIGN other GARBAGE DISP/HOT TUB YES _____ NO X

PERK RATES 6-15 DEPTH TO RESTRICTING LAYER 2

MIN. SIZE SEPTIC TANK 1000 1330 MIN. SIZE PUMP TANK 630

DRAINFIELD: MINIMUM SQ.FT. _____ WITH _____ INCHES ROCK BELOW PIPE

MOUND: MINIMUM ROCK BED SQ.FT. 320 WITH 9 INCHES ROCK BELOW PIPE

MIN. UPSLOPE SAND WIDTH 9.1 MIN. DOWNSLOPE SAND WIDTH 15 END SAND WIDTHS 9.1

RECOMMENDATIONS: _____

x Richard Vigstol
SIGNATURE APPLICANT/AGENT

125
\$250 = 275
FEE

RPC
RECEIVED BY

6-16-03
DATE

EXPIRES IN ONE YEAR

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

AITKIN COUNTY ENVIRONMENTAL SERVICES

OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

OPERATING PERMIT #: 117

FEE PAID: \$25.0

PERMITTEE: Richard Vigstol

PHONE: (218) 426-4268

ADDRESS: 21607 Dakota St NW
Oak Grove, MN 55303-

ZONING PERMIT # 30601

PARCEL #: 290035100

ISSUE DATE: 6/23/03

RENEW DATE: 12/31/04

LEGALDESCRIPTION: part of Govt Lot 5 in NE SW in Doc 275216

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

06-27-03
Date



Signature of Permitting Authority

6-27-03
Date

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

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

This ISTS will gravity from the proposed house into a new 1960 combination tank. From there the liquids are pumped into a 12X30 OSI Sand filter. AN OSI pump vault placed in the sand filter will pump the treated liquids. Treated liquids will be dosed at a maximum of 375 gpd, into a downsized 2.5 bedroom 1-foot sandbase mound with a 10X32 rockbed. System construction \$12,000 +, Operation \$10/mo, \$150 /year

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
Flow	450 gpd	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Separation	1 foot	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
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 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 Mike O'Keefe

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate, lower water usage, increase distribution and absorption area. 2) If OSI Sand Filter experiences problems, fix, or repair at recommendations of Manufacturer, replace. 3) A different or another Performance or Other System may be installed at the owner's expense. 4) 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 MUST BE INSTALLED BEFORE COMPLIANCE CERTIFICATE CAN BE ISSUED **

DSPPRCL1

Display Parcel Description

6/23/03 11:01:55

Notes: No

Parcel number/Tax year: 29-0-035100
Owner(s): 21644
VIGSTOL, RICHARD N & VALERIE G
21607 DAKOTA ST
OAK GROVE MN 55303

2004 Reference parcel: 00-2-290000
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: 21644 FALCO: 1 F.O.
VIGSTOL, RICHARD N & VALERIE G
21607 DAKOTA ST
OAK GROVE MN 55303

TIF district: 000 000
Lake#/name : 1-0062 BIG SANDY
Property adr:

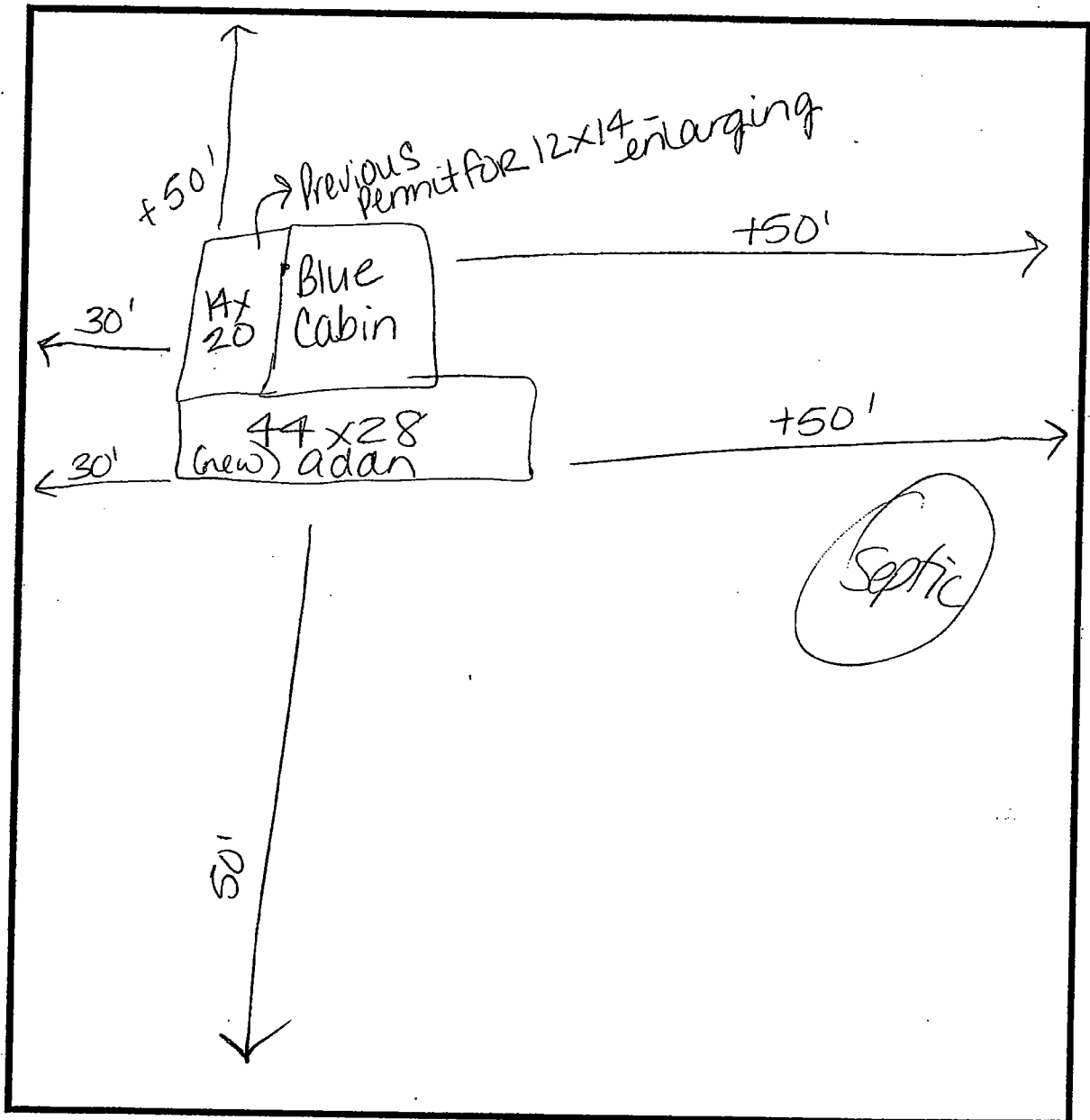
Alternate taxpayer:

Emergency# : -
Twp/City Plt: SHAMROCK TWP
Sec/twp/rge : 18 49.0 23 Acres: 5.00
Plat:
Description: Lot/Block . :
THAT PART OF LOT 5 & NE-SW IN DOC 275216

Press Enter to continue or enter new parcel/tax year. 29-0-035100 2004
F1=Full desc F2=Trans hist F3=Exit F6=Prcl hist F7=Backward F9=Escrow hist
F12=Cancel F14=Phy Addr F17=Dsply Note

AITKIN COUNTY BUILDING PERMIT SITE PLAN

Please indicate the location of: Wells, well setback to system components, buildings, septic system components, reserved septic system area, property lines, waterways, and buried lines. Include size, length, and appropriate distances from fixed reference points. Provide a North directional arrow!



A. M. & Associates, Inc.

29465 442ND LANE
Palsade, MN 56469
(218) 768-4430

Michael D. O'Keeffe
Annette M. O'Keeffe

SEPTIC SYSTEMS
DESIGNS * INSPECTIONS * MAINTENANCE
MPCA #1357

**ONE YEAR
MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
FOR 1ST YEAR**

It is hereby agreed this 13 day of June, 20 03 by and between A.M. & Associates, Inc. and

Property Owner(s): **RICHARD VIGSTOL**

Parcel Code: **29-0-035100**

Home Address: **21607 DAKOTA ST. NW
ANOKA, MN 55303**

Site Address: **49610 HWY 65
McGREGOR, MN 55760**

Phone (home) **(763) 535-3858**
(work)
(cell) **(612) 991-1532**
(fax)

Township **SHAMROCK**
Phone: **(218) 426-4268**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

This ISTS is to have the wastewater gravity from the proposed house into a new 1960 combination 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, Timed Dosed at a maximum of 375 gpd, into a downsized 2 1/2 Bedroom 1 foot sandbase Mound with a 10' x 32' Rockbed.

Installation Date: _____ Installer: _____ Phone#: _____

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 \$35.00 per hour for time and labor required from A.M. & Associates and/or Minnesota Onsite Specialties, due to alarms, misuse or abuse of any portion of this System, is the responsibility of the Property Owner(s), payable within 10 days of billing.

All additional cost, time and labor required from A.M. & Associates, Inc. due to modifications made by the pertaining County's Environmental Services Department, is the responsibility of the Property Owner(s), payable within 10 days of billing.

In no event shall A.M. & Associates, Inc. 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. Pull pump and clean intake screen if necessary
- 6. Visually inspect recirculating splitter valve (if applicable) and liquid level
- 7. 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)'S RESPONSIBILITIES (Monthly and/or as Required)**

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

- 1. Must *notify* A.M. & Associates, Inc. of the installation date of this ISTS, a *minimum* of one week *prior* to installation.
- 2. 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
- 3. Will be responsible for recording water meter readings on a *monthly* basis.
- 4. 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.
- 5. Will provide A.M. & Associates, Inc. copies of the water meter records, upon request.
- 6. 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
- 7. Will notify A.M. & Associates, Inc. of new ownership of property if within the duration of this contract.
- 8. 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.
- 9. 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 on date of installation and ending December 31st of the following year.

Maintenance, Monitoring & Inspection Service Contract	\$300.00	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: RICHARD VIGSTOL Richard Vigstol Date: 06-13-03
(please print) (signature)

Spouse: _____ Date: _____
(please print) (signature)

A.M. & Associates, Inc.:

Name: MICHAEL D. O'KEEFFE Michael D O'Keefe Date: 6-13-03
(please print) (signature)

AITKIN COUNTY ENVIRONMENTAL SERVICES

APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

PERMITTEE Richard Vigstol PARCEL NUMBER 29-0-035100
ADDRESS 21607 Dakota St. NW CITY Anoka STATE MN ZIP 55303
SEC 8 TWP 49 RGE 23 BLOCK _____ LOT 12 ACRES _____
TELEPHONE (763) 753-3858 GIS LOCATION _____
SITE LOCATION 49610 HWY 65, Big Sandy Lake

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM:

This ISTS is to have the wastewater gravity from the proposed house into a new 1960 combination 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, Timed Dosed at a maximum of 375 gpd, into a downsized 2 ½ Bedroom 1 foot sandbase Mound with a 10' x 32' Rockbed.

Number of Bedrooms 3 (sized for 2 ½ Bedrooms)

Flow = 375 gpd

Hydraulic Loading Rate = 1.0 - 1.2 gpd/ft²

Organic Loading Rate = 0.00009 BOD/sqft

$$\text{Flow} \times \text{BOD}(\text{mg/l}) \times 8.35 \div 1,000,000 = \# \text{BOD}$$
$$(375 \times 15 \times 8.35 \div 1,000,000 = .046 \text{ BOD})$$

$$\text{System Loading} = \text{organic loading} \div \text{area} = \text{BOD/sqft}$$
$$(.046 \div 320 = 0.00014 \text{ BOD/sqft})$$

Anticipated System Life = 20 - 30 years

Estimated Cost of:

System Construction = \$12,000.00 +
Operation = \$10.00 per month
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	450 gpd	Water Meter	Monthly	Record on Log Sheet	At time of Operating Permit Renewal
5-Day BOD					
Total Nitrogen					
Total Phosphorus					
TSS					
Fats, Oils, Grease (FOG)					
Fecal Coliform					
Separation Distance	1 foot Separation beneath Rock layer	Mound	Annually	Shoot Elevations, Soil Borings	Annually

C. MAINTENANCE REQUIREMENTS

PARAMETER	LOCATION	FREQUENCY
Daily Flow	Water Meter	Monthly (record on log sheet)
Sludge & Scum Level	Septic Tank	Annually
Pump, Timers, Alarm, Floats, etc	Lift Tank, Pump Vault	Annually
Pressurization of Laterals in Sand Filter (squirt test)	Sand Filter	Annually
Acceptance of Effluent into ground and 1 foot of separation to water table.	Mound	Annually
Overall visual of entire system for landscaping, drainage and cover material	Mound, Sand Filter, Tanks	Annually

D. MONITORING AND REPORTING REQUIREMENTS:

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

Aitkin County Environmental Services
209 2nd 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. If OSI Sand Filter experiences problems, fix or repair at recommendations of Manufacturer, or replace.
3. A different or another Performance or Other System may be installed at the owner's expense.
4. 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. A.M. & ASSOCIATES , 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), only upon signing a contract stating so.

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 #)

10/16/2002
(Date)

A.M. & ASSOCIATES, INC.
(Company Name)

29465 442nd LANE PALISADE, MN 56469
(Address)

(218) 768-4430
(Telephone)

SUPPLEMENTAL DATA FOR LAND USE PERMITS

Page 1 of 2

***** COMPLETE BOTH SIDES *****

A. PLANNING CHECKLIST *(required)*:

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

B. PRE-EVALUATION INSPECTION REQUEST *(required)*:

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

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

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

Telephone Number between the hours of 8:00 A.M. and 4:00 P.M. 218-426-4268 / 612-991-1532

Landowner: RICHARD VIGSTOL Date: 06-16-03

Address: 21607 DAKOTA ST NW
OAK GROVE MN 55303

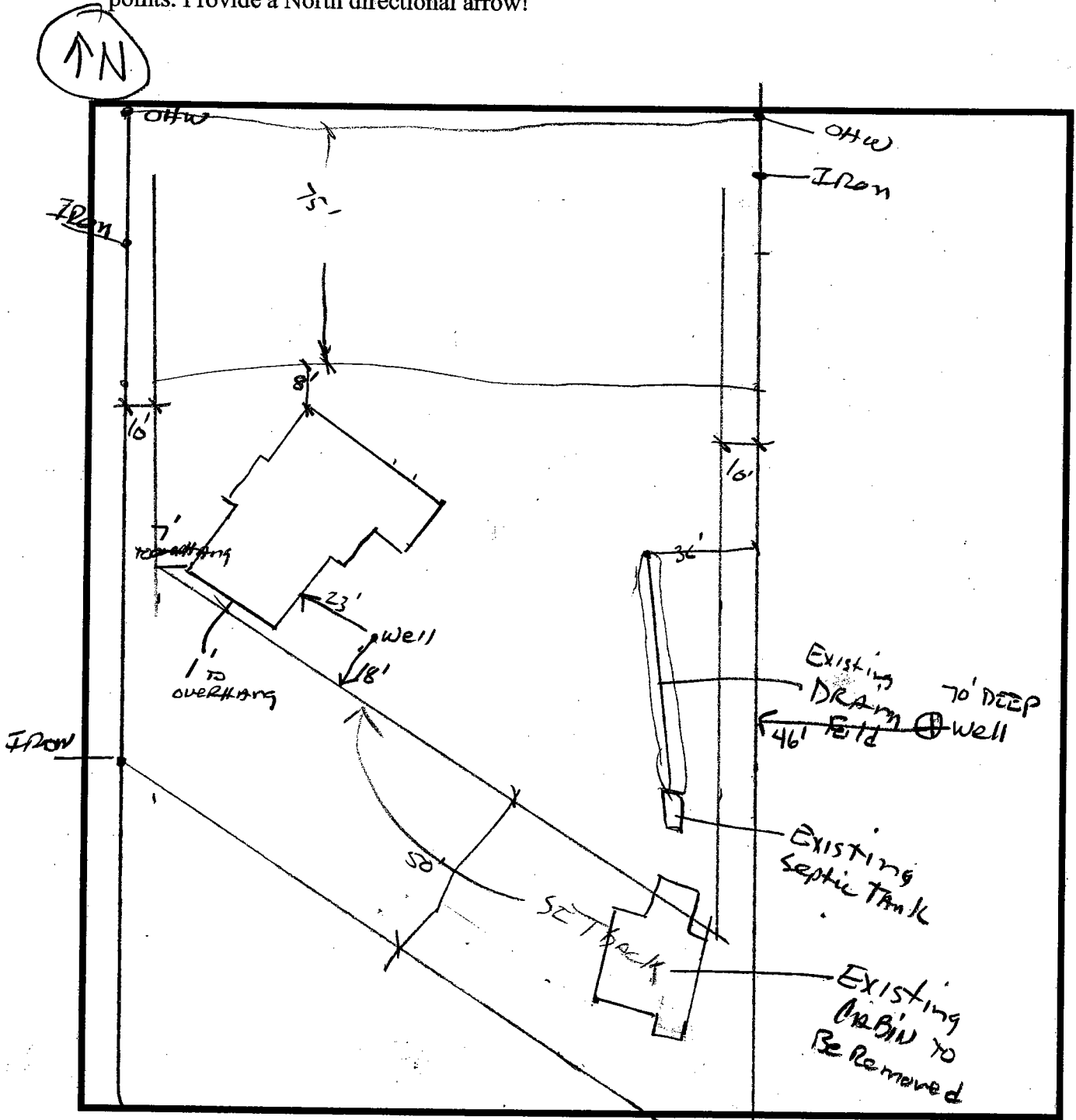
LANDOWNER SIGNATURE: X [Signature]

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

WE LOOK FORWARD TO WORKING WITH YOU

AITKIN COUNTY BUILDING PERMIT SITE PLAN

Please indicate the location of: Wells, well setback to system components, buildings, septic system components, reserved septic system area, property lines, waterways, and buried lines. Include size, length, and appropriate distances from fixed reference points. Provide a North directional arrow!



A. M. & Associates, Inc.

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

Michael D. O'Keeffe
Annette M. O'Keeffe

Septic Systems
Designs & Inspections
MPCA #1357

THE ENCLOSED INDIVIDUAL SEWAGE TREATMENT SYSTEM (ISTS)
IS DESIGNED SPECIFICALLY FOR:

Richard Vigstol
21607 Dakota St. NW
Anoka, MN 55303
(763) 753-3858
(218) 426-4268

For property located at;
49610 HWY 65
Big Sandy Lake
Shamrock Township
Sec 8, Twp 49, Rge 23

Parcel# 29-0-035100

June 9, 2003

*Reviewed
RPC*

3 BEDROOM OSI SANDFILTER TIME DOSING INTO A 2 ½ BEDROOM 1 FOOT SANDBASE MOUNT

Note to Property Owner:

Please be advised that with the installation of the enclosed designed septic system, the Property Owner(s) understands and accepts full responsibility of that which is outlined below.

The State of Minnesota has classified the attached ISTS Design as an "Other System", due to the FILL, Pretreatment Device, and the Downsized Drainfield. Therefore the Property Owner(s) accepts all responsibility and risks involved with the installation and hydraulic performance of this Septic System, and holds A.M. & Associates, Inc. harmless from all liability for this Sewage Treatment System whatsoever.

An Operating Permit for Wastewater Treatment and Dispersal is required.

A Maintenance Service, Monitoring and Inspection Contract is required *before* Aitkin Planning & Zoning will accept an application for an Operating Permit.

The Property Owner(s) accepts the responsibility of recording water meter readings on a monthly basis.

The Property Owner(s) accepts the responsibility of all costs involved for the servicing, monitoring, maintenance and mitigation of this system, that may occur.

- additional soils were taken by Mr. Rich Courtena

OWNER IS RESPONSIBLE TO PROTECT THE DRAINFIELD SITE FROM CONSTRUCTION, VEHICLES, EQUIPMENT, STUMP REMOVAL OR ANY OTHER SOURCE THAT MAY COMPACT OR DAMAGE THE CURRENT CONDITION OF THE SOIL PRIOR TO INSTALLATION. IF SUCH DAMAGES SHOULD OCCUR TO YOUR SITE, A NEW SITE OR DESIGN MAY BE REQUIRED. (TREES CAN BE CUT BUT LEAVE THE STUMPS IN THEIR NATURAL STATE)

RECOMMEND using Insulated Pipe or laying "waterproof" styrofoam insulation on top of the pipes running from House to the Tank and from the Tank to the Drainfield to help prevent freezing problems.

Note to Installer:

1. This ISTS is to have the wastewater gravity from the proposed house into a new 1960 combination 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, Timed Dosed at a maximum of 375 gpd, into a downsized 2 ½ Bedroom 1 foot sandbase Mound with a 10' x 32' Rockbed.
2. Installer is to inform property owner of known supplies, contractors, and expenses required in order to make this ISTS operational -that is *not* covered in his contract.
3. Installer is to *verify* all measurements on jobsite.
4. This system *must* be installed according to *current* Minnesota Chapter 7080 and Aitkin County's ISTS & Wastewater Ordinance requirements.
5. A WATER METER MUST BE INSTALLED.
6. Installer is to contact Designer for questions and/or prior to making any changes to the enclosed design.
7. Install a 1960 Combination Tank (be sure to be at least 50 feet from well)
THIS TANK MUST CONTAIN A 4" FLOW-THROUGH PORT HOLE, 31.8" IN THE DIVIDING WALL, FROM THE BOTTOM OF THE INSIDE OF THE TANK.
THIS 4" CLEAR ZONE HOLE CAN BE EITHER SPECIAL ORDERED WITH THE TANK MANUFACTURER, OR CUT BY THE INSTALLER AT TIME OF INSTALLATION OF THE TANK.
8. Be sure the Sewer Line from the House to the Tank, and the Pump Line from the Tank to the Sandfilter are well supported to avoid bowing after ground settlement.
9. Owner would like an OSI Biotube Effluent Filter installed in the Tank.
10. Install 2" "waterproof" styrofoam insulation on top of the Tank to help prevent freezing problems.
11. Tank lids & risers will be provided by Minnesota Onsite Specialties and *must* be installed at ground level for monitoring and maintenance purposes.
12. Construct a 12' x 30' OSI Sand Filter with a Pump Vault.
13. *All* manufacturer's requirements and specifications must be used when installing the OSI Sand Filter.

14. Minnesota Onsite Specialties is to provide the required OSI Sand Filter kit, Pumps, Control Panel, Risers insulated Tank lid, and related equipment, *onsite* expertise of installation, start-up, maintenance and all other related requirements when installing the OSI Sand Filter System. (lumber for sand filter, sand & rock not included)
(contact John Walsh, 12428 Tamarack Road, Floodwood, MN 55736, (218) 476-2201)
NOTE: Be sure you understand any *additional* supplies you must provide.
15. Installer *must* schedule installation date with John Walsh with Minnesota Onsite Specialties (218) 476-2201 and Annette O’Keeffe with A.M. & Associates, Inc. (218) 768-4430 of whom *must* be present at time of installation.
16. Installer *must* schedule an Electrician (experienced with installing OSI Control Panels) to be on site *during* installation of Sand Filter to wire Control Panel for testing Time Dosing, Pumps, Alarms, Squirt Levels, etc.
17. The System is to have Timed Dosing set at a MAXIMUM of 375 gallons per day, 3 minutes on and 8 hours off, from the Sandfilter to the Mound.
18. The Control Panel *must* be a minimum of 4 feet from the ground surface for easy access.
19. Pumps and Alarms *must* be on separate circuits.
20. Pump & collapse existing Tank.
21. Excavate out existing Drainfield.
22. Excavate out old garbage FILL in entire Rockbed area –plus- 3 feet around the Rockbed down to the depth of the original Top Soil, -approximately 16 inches deep. (Minimum of 12 inches deep).
23. Fill entire excavated area with 1.27 Sandy Loam to existing ground surface.
24. Construct 1 foot sandbase Mound on newly filled area. (DUE TO WELL SETBACKS, MOUND MUST BE INSTALLED EXACTLY AS DESIGNED)

BIG SANDY LAKE

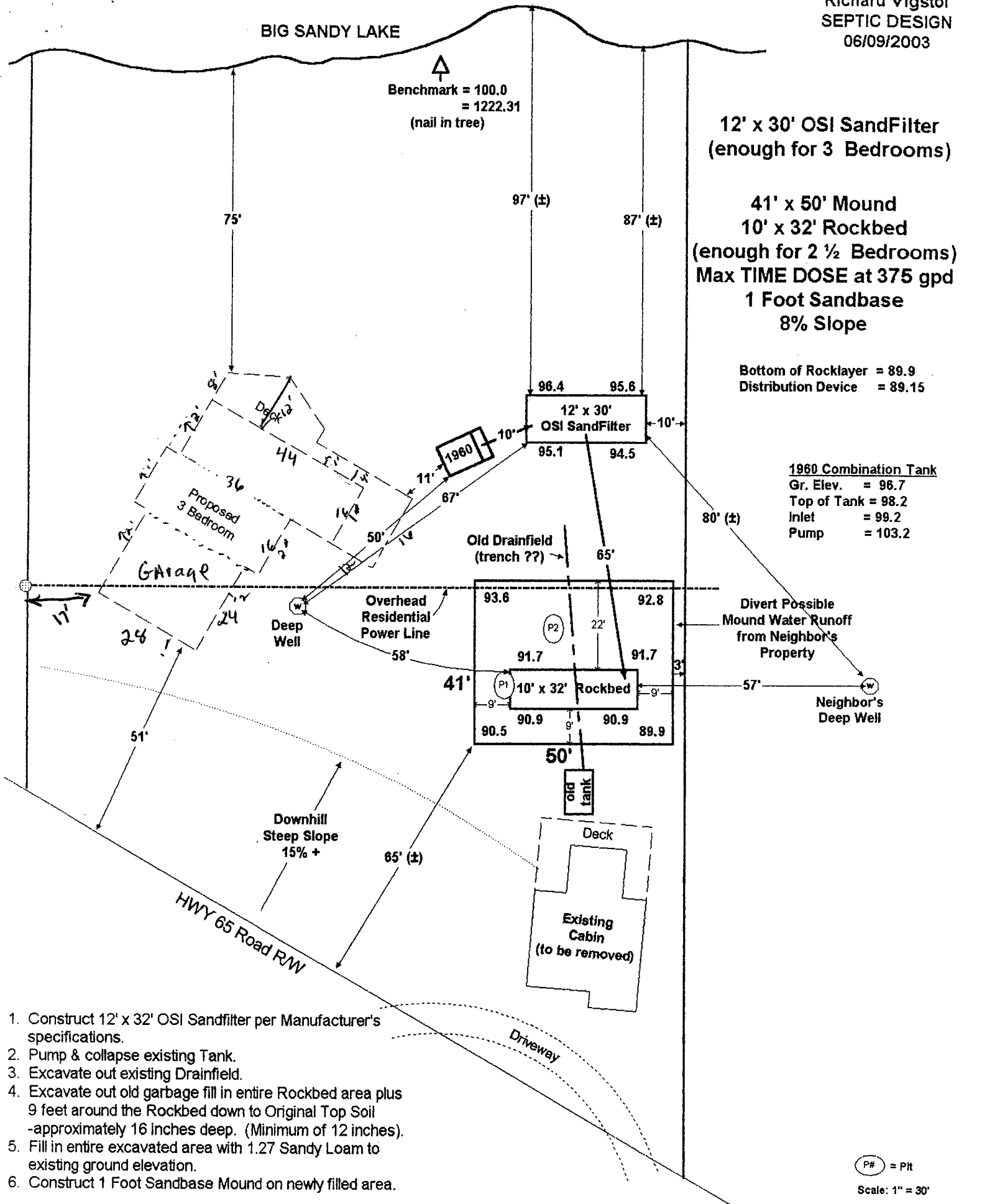
Benchmark = 100.0
= 1222.31
(nail in tree)

12' x 30' OSI SandFilter
(enough for 3 Bedrooms)

41' x 50' Mound
10' x 32' Rockbed
(enough for 2 1/2 Bedrooms)
Max TIME DOSE at 375 gpd
1 Foot Sandbase
8% Slope

Bottom of Rocklayer = 89.9
Distribution Device = 89.15

1960 Combination Tank
Gr. Elev. = 96.7
Top of Tank = 98.2
Inlet = 99.2
Pump = 103.2

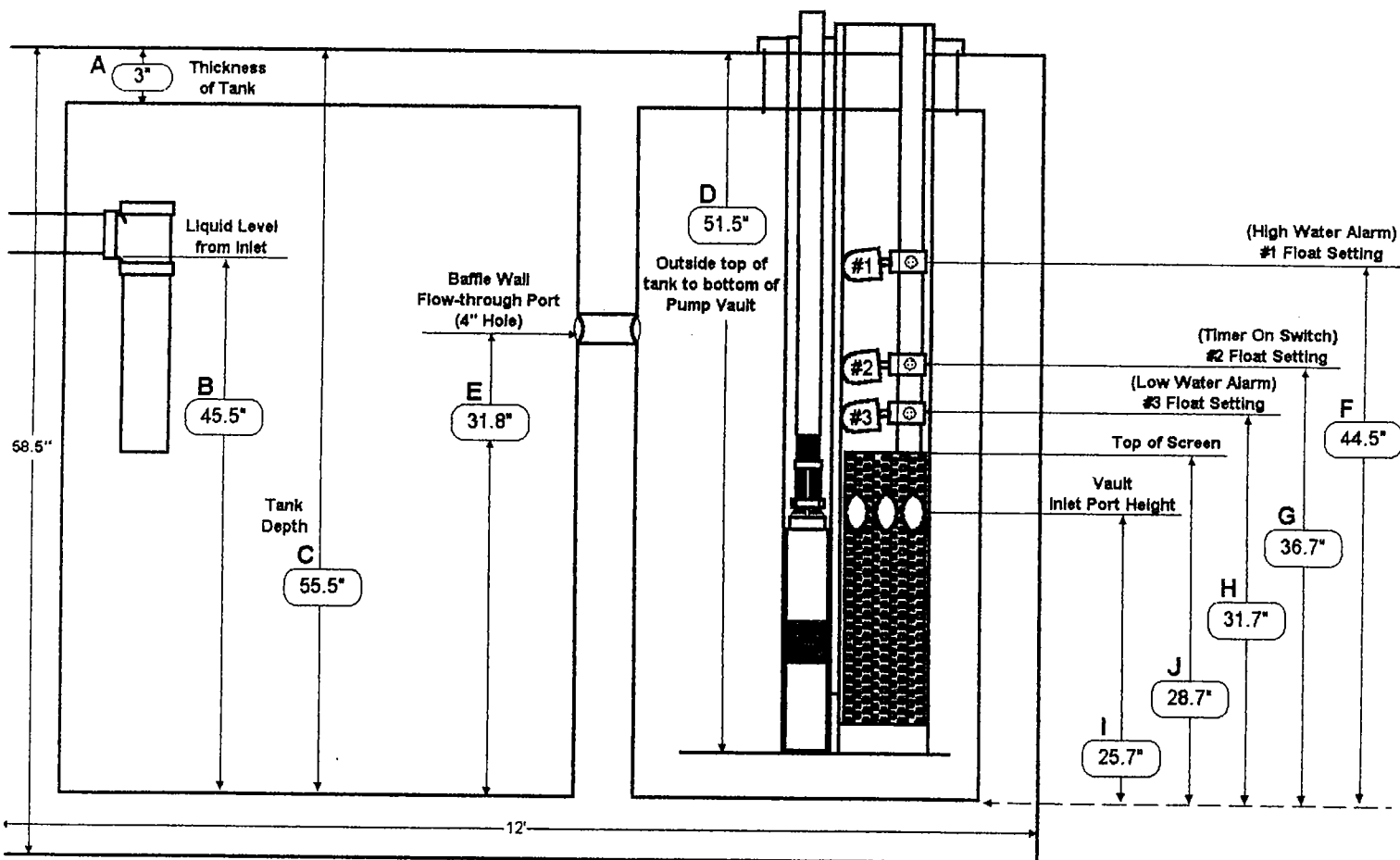


1. Construct 12' x 32' OSI Sandfilter per Manufacturer's specifications.
2. Pump & collapse existing Tank.
3. Excavate out existing Drainfield.
4. Excavate out old garbage fill in entire Rockbed area plus 9 feet around the Rockbed down to Original Top Soil -approximately 16 inches deep. (Minimum of 12 inches).
5. Fill in entire excavated area with 1.27 Sandy Loam to existing ground elevation.
6. Construct 1 Foot Sandbase Mound on newly filled area.

FLOAT AND VAULT SETTING WORKSHEET

1960 Gallon 2 Compartment Tank - 375 GPD

- A. Thickness of Tank = 3 inches
- B. Liquid Level from Inlet = 45.5 inches
- C. Tank Depth from outside top of tank to inside bottom of tank = 55.5 inches
- D. Depth from outside top of tank to bottom of pump vault = 51.5 inches
(vault should be a minimum of 2" from the bottom of the tank. If the tank is deep, use a 4-8" block.)
- E. Baffle Wall Flow-through Port Height = 31.8 inches Take "B" x 70% (liquid capacity) to get port height. ($45.5 \times 70\% = 31.8$)
- F. #1 Float Setting = 44.5 inches (this setting is 1" less than "B")
- G. #2 Float Setting = 36.8 inches Take the tank size divide by "B" to get gal per inch. ($1960 \div 45.5 = 43$ gpi)
Use a minimum reserve capacity of 200 gallons, divide by the gal per inch,
then subtract from #1 Float Setting "F" to get #2 float setting.
(use minimum reserve of 200 gallons or the design flow)
($375 \text{ gpd} \div 43 = 8.72$ $44.5 - 8.72 = 36.78$)
- H. #3 Float Setting = 31.7 inches Calculate "I" and "J" to get "H". "H" should be 3" above "J". ($28.7 + 3 = 31.7$)
- I. Vault Inlet Port Height = 25.7 inches Take "G" x 70% (liquid capacity) to get port height. ($36.7 \times 70\% = 25.7$)
- J. Top of Screen in Screen Vault = 28.7 inches The screen is 3" above port height "I". ($25.7 + 3 = 28.7$)





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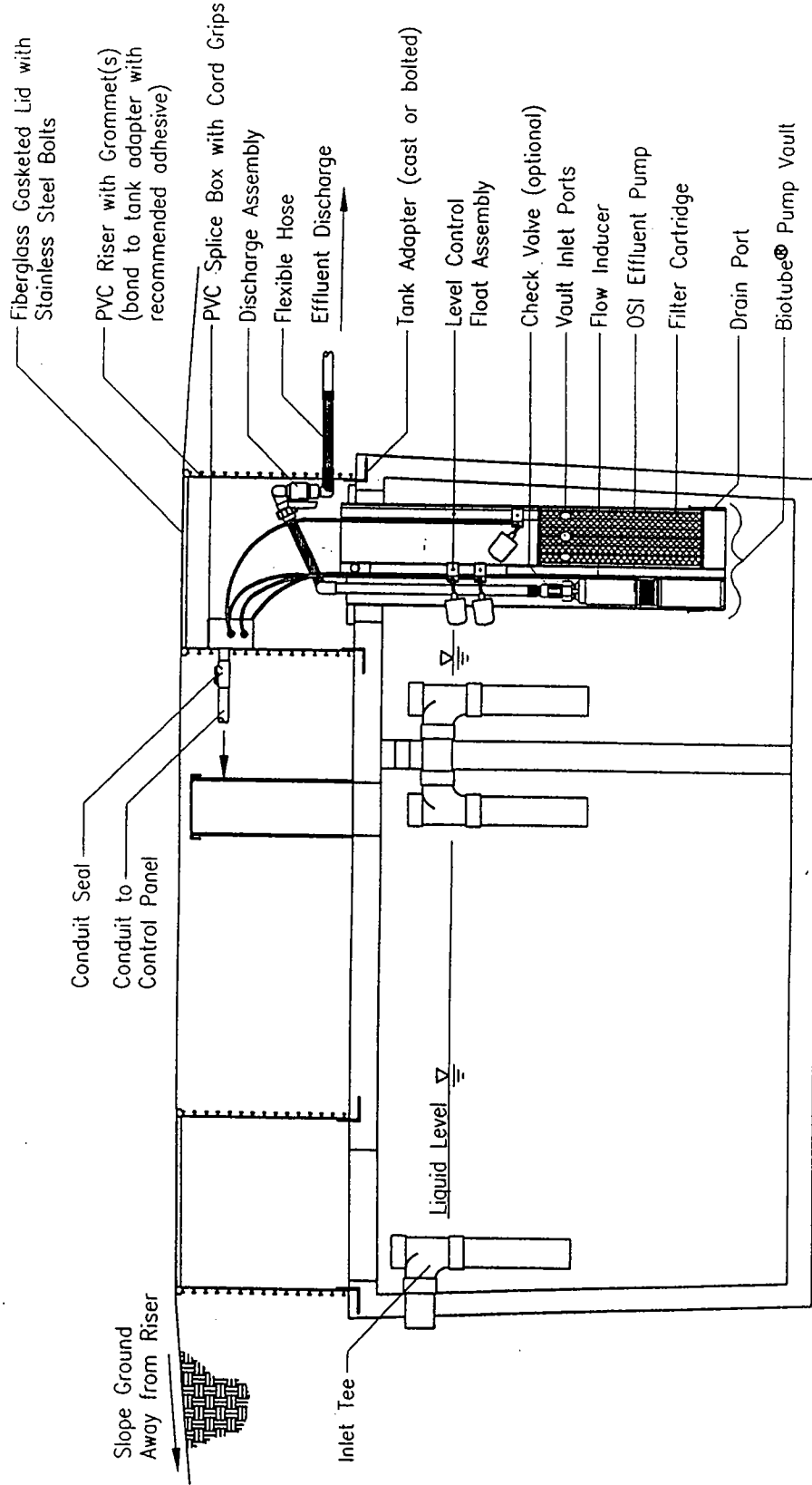
TELEPHONE:

(541) 459-4449

FACSIMILE:

(541) 459-2884

Effluent Pumping System - 2nd Compartment Drawdown





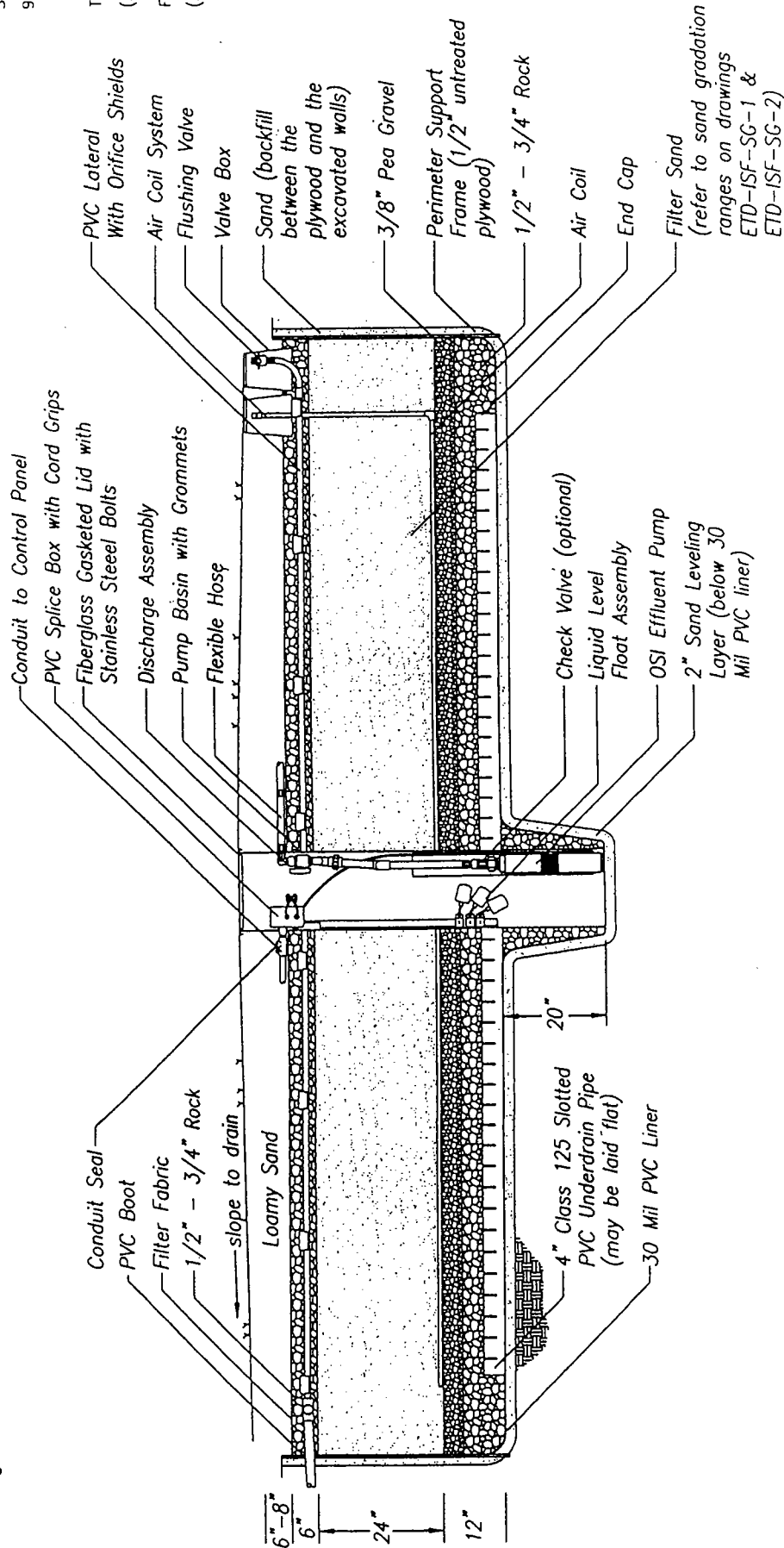
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(541) 459-2884

Typical Intermittent Sand Filter with Pump Discharge

In cold weather applications, slope entire transport line and manifold system to drain back into tank. If draining back is not possible, refer to non-drainback orifice detail on drawing EDW-ISF-S-3.



SIDE VIEW - TYPICAL SAND FILTER WITH PUMP DISCHARGE
SCALE: 3/8" = 1'-0"

Note: See additional details on
EDW-ISF-S-3

Patent # 5,360,556
© 1998, Orengo Systems, Inc.

EDW-ISF-S-3
Rev. 1.0 (2/98)

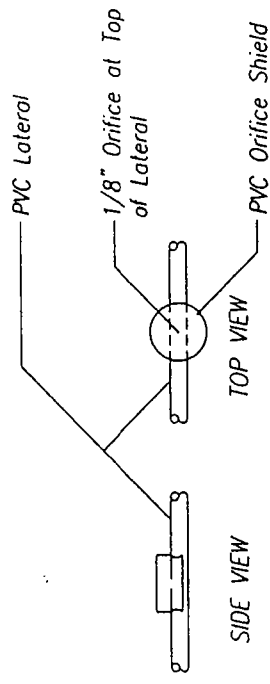


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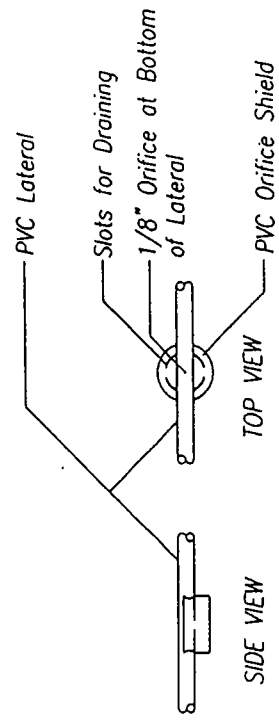
TELEPHONE:
(541) 459-4449
FACSIMILE:
(541) 459-2884

Typical Intermittent Sand Filter Detail Sheet



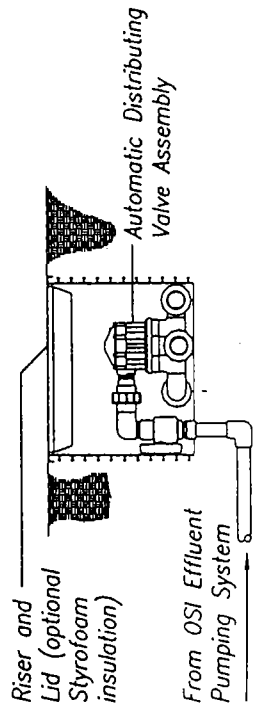
STANDARD ORIFICE SHIELD DETAIL

SCALE: 1" = 1'-0"



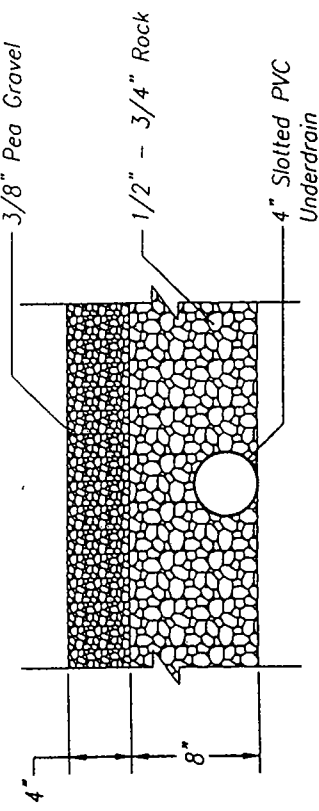
NON-DRAINBACK ORIFICE DETAIL

SCALE: 1" = 1'-0"



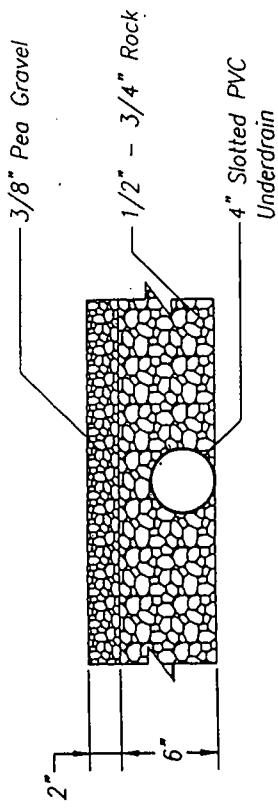
DISTRIBUTING VALVE DETAIL

SCALE: 1/2" = 1'-0"



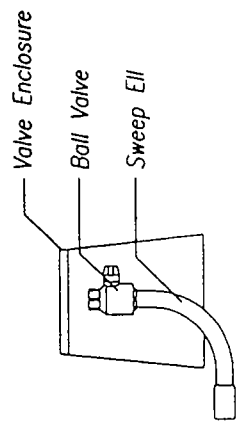
UNDERDRAIN DETAIL FOR PUMP DISCHARGE

SCALE: 1" = 1'-0"



UNDERDRAIN DETAIL FOR GRAVITY DISCHARGE

SCALE: 1" = 1'-0"



FLUSHING VALVE DETAIL

SCALE: 1" = 1'-0"



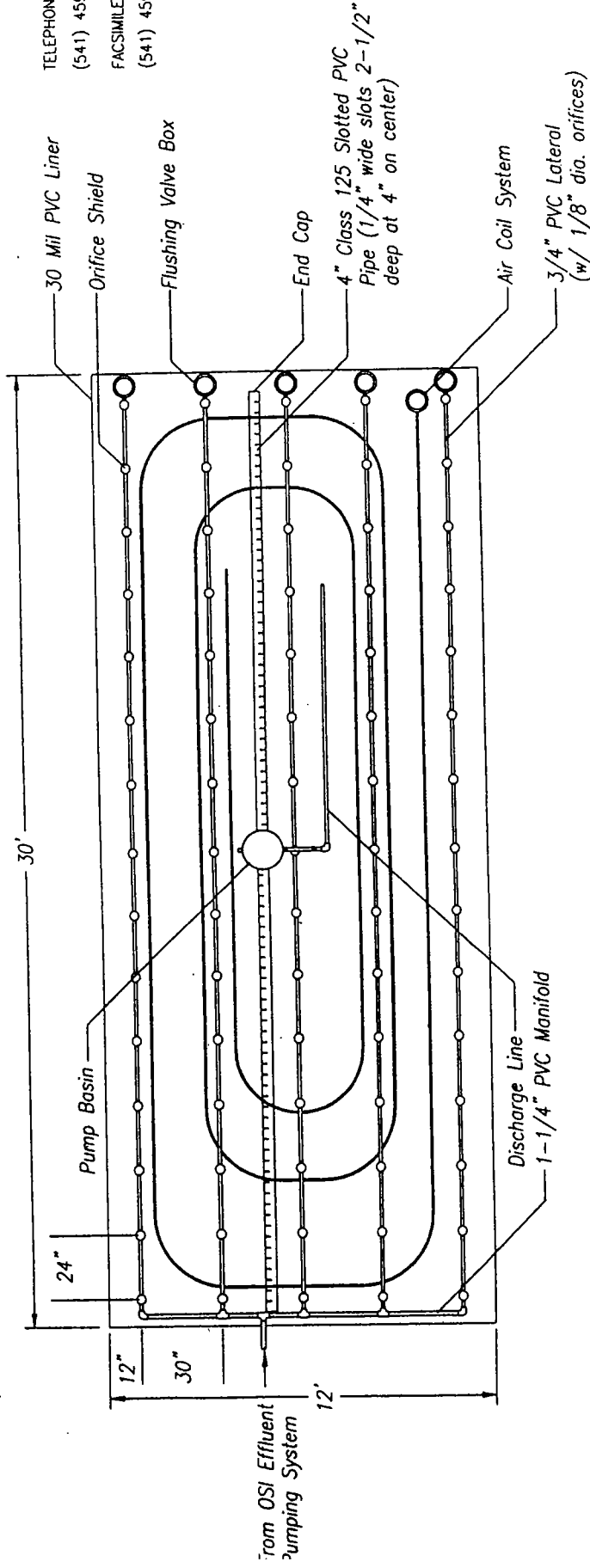
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Incorporated

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SUTHERLIN, OREGON
97479-9012

TELEPHONE:
(541) 459-4449
FACSIMILE:
(541) 459-2884

12'x30' Intermittent Sand Filter* with Pump Discharge

* Configured for loading rates up to 1.25 GPD/FT.² Follow appropriate intermittent sand filter design criteria.



TOP VIEW - 12'X30' PUMP DISCHARGE SAND FILTER

SCALE: 1" = 5'-0"

Note: See additional details on
EDW-ISF-S-3



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97479

TELEPHONE

(541) 469-4448

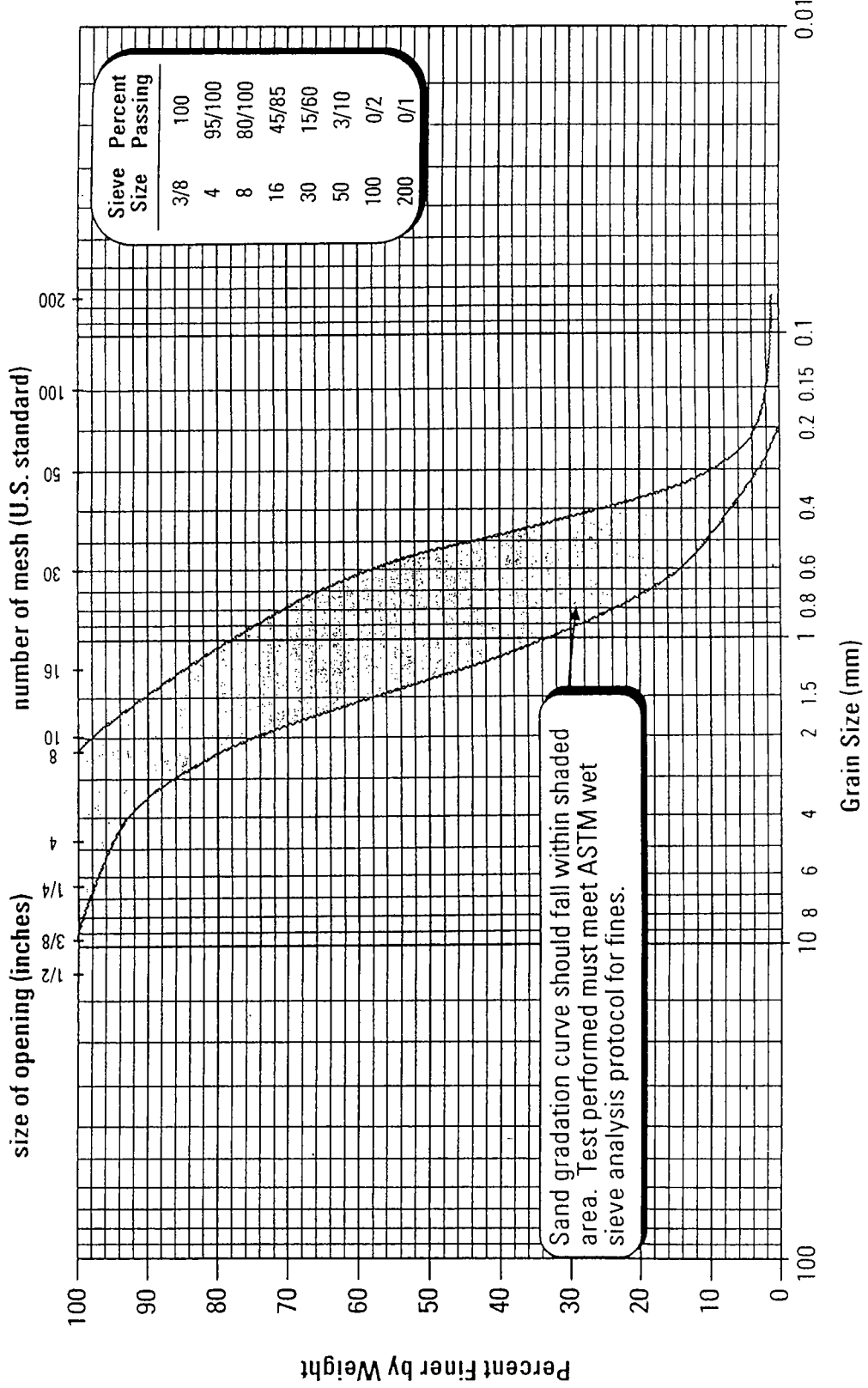
(800) 348-9943

FACSIMILE

(541) 469-2884

Sand Gradation Range for Intermittent Sand Filter Systems Loaded up to 1.25 gpd/ft²* ($D_{10} = 0.3$ to 0.5 mm $C_u = 1$ to 4)

Follow appropriate Intermittent Sand Filter design criteria.



Note: Sand must be properly washed as excessive fines will cause plugging. To ensure the sand consolidates sufficiently, keep it wetted while placing.

Pea Gravel Gradation Range for Supporting Sand Filter Treatment Media



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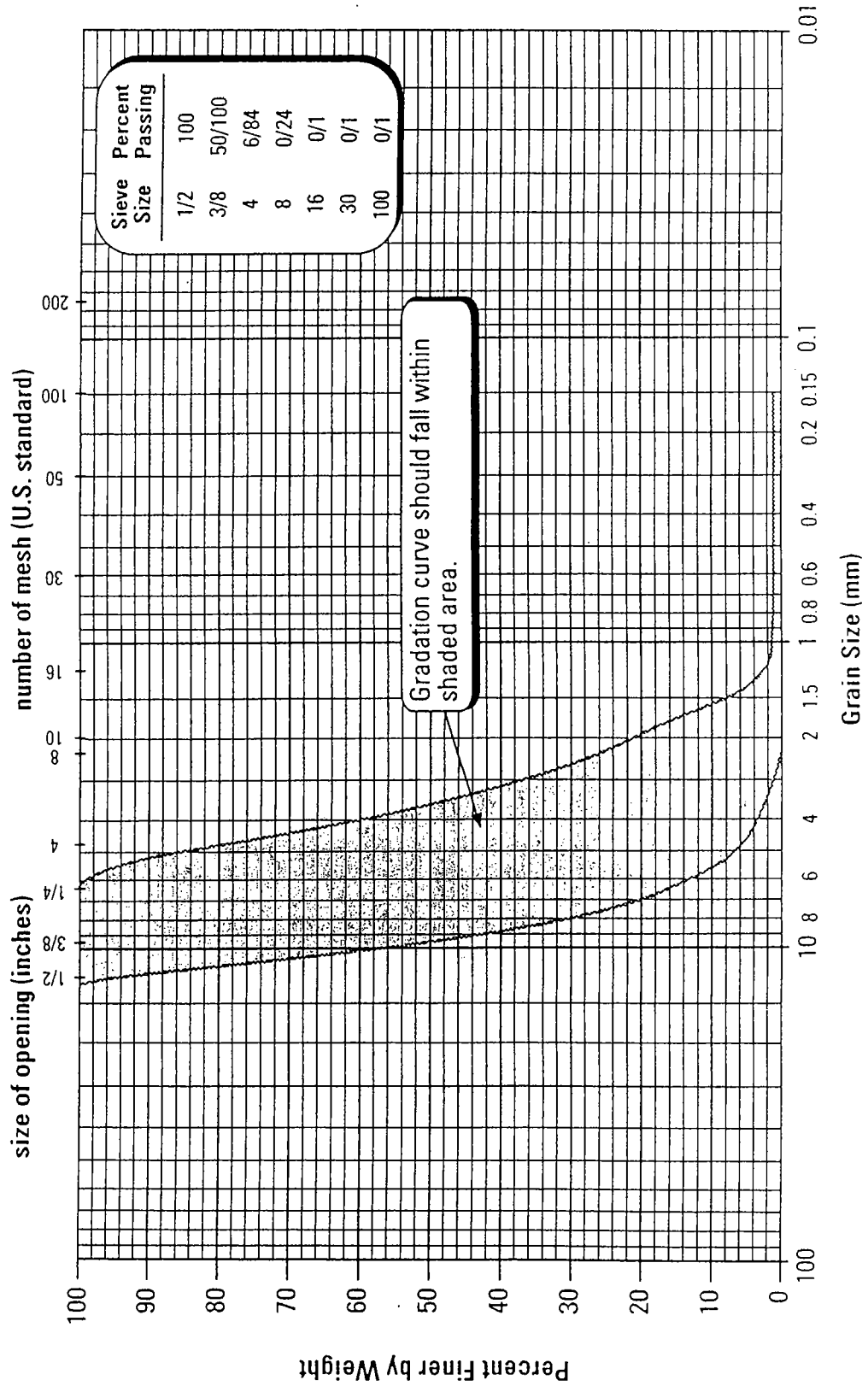
TELEPHONE

(541) 459-4449

(800) 348-9843

FACSIMILE

(541) 459-2884



Note: Gravel in sand filters must be well washed.

MOUND DESIGN SHEET

COUNTY: Aitkin

PROPERTY OWNER: Richard Vigstol

TWP: Shamrock

PERMIT#: _____

PIN#: 29-0-035100

DATE: _____

DESIGNER NAME: Michael D. and Annette M. O'Keeffe

LICENCE#: 1357

SIGNATURE: *Michael D. O'Keeffe*

DATE: 06/09/2003

OF BEDROOMS: 3 1/2 TYPE: I GARBAGE DISPOSAL: No AIR TEST Unknown
 WELL: Deep (50+) X Shallow _____ SETBACKS: Tank 50' Drainfield 55+' Sewer Line ??'

FLOW

(DRAINFIELD SIZED FOR 2 1/2 BEDROOMS = 375 GPD)

- A. ESTIMATED 450/375 GPD OR MEASURED GPD
- B. SEPTIC TANK VOLUME 1960 Combo GALLONS
- C. MINIMUM PUMP TANK VOLUME 730 GALLONS
- C1. ALARM TYPE OSI

EST SEWAGE FLOW IN GPD			
NUMBER OF BEDROOMS	TYPE I	TYPE II	TYPE III
2	300	225	180
3	450	300	218
4	600	375	256
5	750	450	294
6	900	525	332
7	1050	600	372
8	1200	675	408

SOILS

(2 FOOT REDUCTION WITH SANDFILTER)

- D. DEPTH TO RESTRICTING LAYER = 2 FEET
- E. DEPTH OF SAND ON UPSLOPE EDGE 1 FEET
- F. SOIL TEXTURE = Sandy Loam
- G. PERCOLATION RATE = 6 to 15 MPI
- H. SOIL SIZING FACTOR = 1.27 SQ FT/GPD
- I. LAND SLOPE % = 8 %

SEPTIC TANK CAPACITIES/VOLUME (gal)		
NUMBER OF BEDROOMS	MINIMUM CAPACITIES	
	TANK	GARBAGE DISPOSAL
2 OR LESS	1000	1500
3 OR 4	1000	1500
5 OR 6	1500	2250
7 OR 8	2000	3000
OVER 9	SEE FIG C-6 (x 1.5)	

ROCK LAYER DIMENSIONS

- J. (A) 375 x 0.83 = 311.3 SQ FT
- K. ROCK LAYER WIDTH = 10.0 FEET
- L. LENGTH OF ROCK BED = (J) ÷ (K) = 32 FT
(rounded up)

ROCK VOLUME

- M. (J) 311.3 x 1 Ft. (Rock Depth) = 311.3 CU FT
- N. (M) 311.3 ÷ 27 = 11.5 CU YD
- O. (N) 11.5 x 1.4 = 16.1 TONS OF ROCK

ABSORPTION WIDTH

- P. ABSORPTION WIDTH RATIO = 1.50
- Q. ABSORPTION WIDTH = (P) x (K)
(P) 1.50 x (K) 10 = 15 FEET

SIZING TABLE			
PERC RATE	SOIL TEXTURE	(SSF) SQ FT GAL/DAY	ABSORPTION WIDTH RATIO
< THAN 0.1	COARSE SAND	—	1.00
0.1 TO 5	SAND	0.83	1.00
0.1 TO 5	FINE SAND	1.67	2.00
6 TO 15	SANDY LOAM	1.27	1.50
16 TO 30	LOAM	1.67	2.00
31 TO 45	SILT LOAM	2.00	2.40
46 TO 60	CLAY LOAM	2.20	2.67
> THAN 60	CLAY	—	5.00
> THAN 120	CLAY	—	6.00

MOUND SIZE

Property Owner: Richard Vigstol

1. MINIMUM DOWNSLOPE BERM TOE

= Absorption Width (Q) - Rock Layer Width (K)
 (Q) 15 - (K) 10 = 5 Feet

2. DEPTH OF CLEAN SAND FILL AT UPSLOPE EDGE OF ROCK LAYER

= Separation 3' - 2 ft = 1 Feet

3. MOUND HEIGHT AT UPSLOPE EDGE OF ROCK BED

= Depth of Clean Sand for Separation (2) + Depth of Rock Layer (1ft) + Depth of Cover (1ft)
 (2) 1.0 + 1ft + 1ft = 3.0 Feet

3:1 = UPSLOPE BERM MULTIPLIER 2.42
 4:1 = UPSLOPE BERM MULTIPLIER 3.03

5. UPSLOPE BERM WIDTH

= Upslope Berm Multiplier (4) x Upslope Mound Height (3)
 3:1 = (4) 2.42 x (3) 3 = 7.3 Feet
 4:1 = (4) 3.03 x (3) 3 = 9.1 Feet

6. DROP IN ELEVATION

= Rock Layer Width (K) x Landslope % (I) + 100
 (K) 10 x (I) 8 + 100 = 0.8 Feet

7. DOWNSLOPE HEIGHT

= Drop in Elevation (6) + Upslope Mound Height (3)
 (6) 0.8 + (3) 3 = 3.8 Feet

3:1 = DOWNSLOPE BERM MULTIPLIER 3.95
 4:1 = DOWNSLOPE BERM MULTIPLIER 5.88

9. DOWNSLOPE BERM WIDTH

= Downslope Berm Multiplier (8) x Downslope Height (7)
 3:1 = (8) 3.95 x (7) 3.8 = 15.0 Feet
 4:1 = (8) 5.88 x (7) 3.8 = 22.3 Feet

10. ACTUAL DOWNSLOPE BERM WIDTH = Compare Step (1) 5.0

3:1 = with Step (9) 15.0
 Select the Greater of the two values 15.0 Feet
 4:1 = with Step (9) 22.3
 Select the Greater of the two values 22.3 Feet

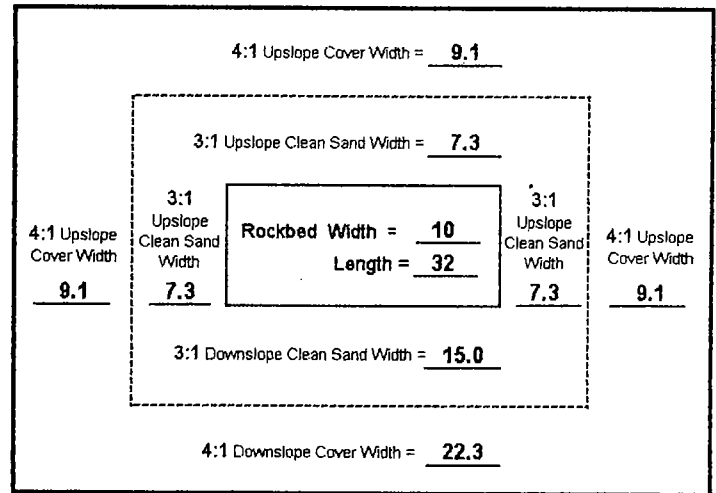
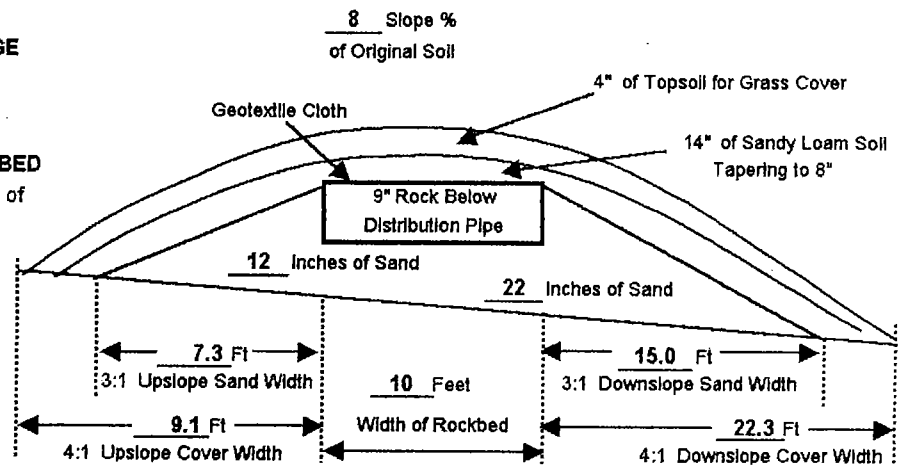
11. TOTAL MOUND WIDTH

= Upslope Berm Width (5) + Rock Layer Width (K) + Downslope Berm Width (10)
 3:1 = (5) 7.3 + (K) 10 + (10) 15.0 = 32.3 Ft
 4:1 = (5) 9.1 + (K) 10 + (10) 22.3 = 41.4 Ft

12. TOTAL MOUND LENGTH

= Upslope Berm Width (5) + Rock Layer Length (L) + Upslope Berm Width (5)
 3:1 = (5) 7.3 + (L) 32 + (5) 7.3 = 46.6 Ft
 4:1 = (5) 9.1 + (L) 32 + (5) 9.1 = 50.2 Ft

MOUND CROSS-SECTION



Final Dimensions = Width 41.4 Ft x Length 50.2 Ft

FINAL DIMENSIONS			
	Width		Length
3:1 Clean Sand =	<u>32.3</u>	x	<u>46.6</u>
4:1 Total Cover =	<u>41.4</u>	x	<u>50.2</u>

Land Slope %	Berm Multipliers for various berm slope ratios			
	DOWNSLOPE		UPSLOPE	
	3:1	4:1	3:1	4:1
0	3.00	4.00	3.00	4.00
1	3.09	4.17	2.91	3.85
2	3.19	4.35	2.83	3.70
3	3.30	4.54	2.75	3.57
4	3.41	4.76	2.68	3.45
5	3.53	5.00	2.61	3.33
6	3.66	5.26	2.54	3.23
7	3.80	5.56	2.48	3.12
8	3.95	<u>5.88</u>	2.42	<u>3.03</u>
9	4.11	6.25	2.36	2.94
10	4.29	6.67	2.31	2.86
11	4.48	7.14	2.26	2.78
12	4.69	7.69	2.21	2.70

SOIL BORING / PIT LOG

PROPERTY OWNER: Richard Vigstol

PARCEL CODE: 29-0-035100

06/09/2003

NOTE: A MINI-EXCAVATOR WITH A MAXIMUM 4 FOOT DEPTH IS USED TO DIG SOIL PITS.
SOIL BORINGS THEN TAKEN AT BOTTOM OF PITS FOR FURTHER DEPTH SOIL ANALYSIS.

<u>Depth</u>	<u>Color</u>	<u>Texture</u>
<u>Pit #1</u>		
0 - 16		Loamy Mottled Fill
16 - 23	10YR 3/2	Loam Original Top Soil
23+	10YR 5/8, 6/1	Mottled

<u>Pit #2</u>		
0 - 20		Loamy Mottled Fill
20+	10YR 5/8, 6/1	Mottled

AITKIN COUNTY
CERTIFICATE OF COMPLIANCE/NOTICE OF NONCOMPLIANCE

This certificate of compliance/notice of noncompliance has been issued this _____ day of 7/8/04 to certify compliance/noncompliance with Aitkin County's Individual Sewage Treatment System and Wastewater Ordinance No.

1. The premises covered by this certificate are legally described as: _____

part of Gov. lot 5 of NE 1/4 of SW 1/4
Section 18 Township 49 Range 23 Lake Big Sandy
PERMIT NO. 30601 Owner Name Richard Vigstol
Address 49610 Hwy 65 McGregor, MN 55760
Installer Name Darlow
Type of System Inspected "Other" Mound w/sand filter

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 

30601



30601 29-0-035100

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

**209 Second Street, NW
Aitkin, Minnesota 56431**

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



August 26, 2005

RE: Renewed Operating Permit

To Whom It May Concern:

This letter is to inform you that your Operating Permit (No. 117) has been renewed until May 31, 2006. 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,

Richard Courtemanche
Assistant Zoning Administrator
Aitkin County

29-0-035100

AITKIN COUNTY ENVIRONMENTAL SERVICES

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

OPERATING PERMIT #: 117

FEE: \$50.00

PERMITTEE: Richard Vigstol

PHONE: (218) 426-4268

ADDRESS: 49610 Hwy 65
McGregor, MN 55760-

ZONING PERMIT # 30601

PARCEL #: 29-0-035100

LEGALDESCRIPTION: part of Govt Lot 5 in NE SW in Doc 275216

ISSUE DATE 1/1/05

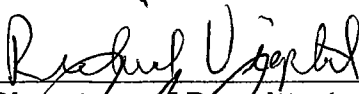
EXPIRATION DATE ~~12/31/05~~ 5-31-06

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

08-03-05
Date



Signature of Permitting Authority

08-03-05
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.

continue

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

This ISTS will gravity from the proposed house into a new 1960 combination tank. From there the liquids are pumped into a 12X30 OSI Sand filter. AN OSI pump vault placed in the sand filter will pump the treated liquids. Treated liquids will be dosed at a maximum of 375 gpd, into a downsized 2.5 bedroom 1-foot sandbase mound with a 10X32 rockbed. System construction \$12,000 +, Operation \$10/mo, \$150 /year

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
Flow	450 gpd	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Separation	1 foot	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
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 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 A.M. and Associate

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate, lower water usage, increase distribution and absorption area. 2) If OSI Sand Filter experiences problems, fix, or repair at recommendations of Manufacturer, or replace. 3) A different or another Performance or Other System may be installed at the owner's expense. 4) 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 MUST BE INSTALLED BEFORE COMPLIANCE CERTIFICATE CAN BE ISSUED **

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

**ONE YEAR
MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
FOR June 1st 2005 thru May 31st 2006**

It is hereby agreed this 27th day of July, 20 05 by and between A.M. & Associates, Inc. and

Property Owner(s): **RICHARD VIGSTOL**
Home Address: **49610 HWY 65
McGREGOR, MN 55760**

Parcel Code: **29-0-035100**

Site Address: **SAME**

Phone (home) **(218) 426-4268**
(cell) **(612) 991-1532**
(fax)

Township **SHAMROCK**
Phone: **(218) 426-4268**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

3 BEDROOM OSI SANDFILTER TIME DOSED INTO A 2½ BEDROOM 1 FOOT SANDBASE MOUND

This ISTS is to have the wastewater gravity from the proposed house into a new 1960 combination 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, Timed Dosed at a maximum of 375 gpd, into a downsized 2 ½ Bedroom 1 foot sandbase Mound with a 10' x 32' Rockbed.

Installation Date: 06/01/2004

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 June 1st 2005 and ending May 31st 2006.

FEES

Maintenance, Monitoring & Inspection Service Contract	0.00	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

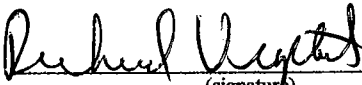
NOTE: SAMPLING OF FECAL COLIFORM, BOD, TSS, AND FATS OIL AND GREASE IS NOT REQUIRED AT THIS TIME. IF SAMPLING IS FOUND TO BE NECESSARY DURING THE DURATION OF THE USE OF THIS SEPTC SYSTEM, THE PROPERTY OWNER(S) IS RESPONSIBLE FOR ALL COSTS INVOLVED, AND IS DUE AT TIME THE SAMPLES ARE TO BE TAKEN.

*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: RICHARD VIGSTOL (please print)  (signature) Date: 08-03-05

Spouse: _____ (please print) _____ (signature) Date: _____

A.M. & Associates, Inc.:

Name: MICHAEL D. O'KEEFFE (please print)  (signature) Date: 7-27-05

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

MAINTENANCE, MONITORING AND INSPECTION REPORT FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM 1ST YEAR SERVICE 2004

Property Owner(s): **RICHARD VIGSTOL**
Home Address: **49610 HWY 65** Site Address: **SAME**
McGREGOR, MN 55760 **BIG SANDY LAKE**
Phone: **(218) 426-4268** Township: **SHAMROCK**
Parcel Code: **29-0-035100**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

3 BEDROOM OSI SANDFILTER TIME DOSED INTO A 2½ BEDROOM 1 FOOT SANDBASE MOUND

This ISTS is to have the wastewater gravity from the proposed house into a new 1960 combination 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, Timed Dosed at a maximum of 375 gpd, into a downsized 2 ½ Bedroom 1 foot sandbase Mound with a 10' x 32' Rockbed.
2 ½ Bedrooms, 375 gpd (max), 11,250 gallons per month.

Installation Date: 06/01/2004 Installer: Ernie Darlow Phone#: (218) 426-4320

2004 MAINTENANCE & MONITORING RESULTS

Date Maintained: 07/21/2005

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 = 903 min CNT = 1475 SF ETM = 1155 min CNT = 1303
4. Confirm operation of audible and visual alarms	Good
5. Test Pump Amperage	Not Checked at This Time

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good
2. Inspect splice box for moisture and secure connections	Drilled Drainage Hole (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	Cleaned
6. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Good
2. Clean (if needed)	Cleaned

2004 MAINTENANCE & MONITORING RESULTS

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 8" Scum level = 0" (No Clear Zone)
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

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good -height = approx 3 ½ ft
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	Good

MISCELLANEOUS	RESULTS	
1. Review water usage from water meter records.	Date	Gallons Used
	06/28/04	2860
	07/06/04	750
	07/24/04	1240
	08/09/04	1630
	09/06/04	2020
	10/06/04	1160
	11/02/04	1450
	12/01/04	1740
	12/22/04	970
	01/20/05	4530
	02/10/05	940
	02/25/05	780
	03/15/05	1390
	04/03/05	500
	05/25/05	1980
06/01/05	1070	
06/29/05	840	
07/05/05	1010	
07/21/05	110	

COMMENTS: ALL COMPONENTS LOOK GOOD.

Drainfield is sized for 2 ½ Bedrooms, 375 gpd, 11,250 gallons per month. Water usage is well within limitations.

AITKIN COUNTY ENVIRONMENTAL SERVICES

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

OPERATING PERMIT #: 117

FEE: \$50.00

PERMITTEE: Richard Vigstol

PHONE: (218) 426-4268

ADDRESS: 49610 Hwy 65
McGregor, MN 55760-

ZONING PERMIT # 30601

PARCEL #: 29-0-035100

LEGALDESCRIPTION: part of Govt Lot 5 in NE SW in Doc 275216

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.



Signature of Permittee

05-09-06

Date




Signature of Permitting Authority

5/9/06

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.

Pd Receipt #19904 5/9/06 

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

This ISTS will gravity from the proposed house into a new 1960 combination tank. From there the liquids are pumped into a 12X30 OSI Sand filter. AN OSI pump vault placed in the sand filter will pump the treated liquids. Treated liquids will be dosed at a maximum of 375 gpd, into a downsized 2.5 bedroom 1-foot sandbase mound with a 10X32 rockbed. System construction \$12,000 +, Operation \$10/mo, \$150 /year

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 reuslts must be found within the compliance limits.

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENC
Flow	450 gpd	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Separation	1 foot	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
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 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 A.M. & Associates I

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate, lower water usage, increase distribution and absorption area. 2) If OSI Sand Filter experiences problems, fix, or repair at recommendations of Manufacturer, or replace. 3) A different or another Performance or Other System may be installed at the owner's expense. 4) 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 MUST BE INSTALLED BEFORE COMPLIANCE CERTIFICATE CAN BE ISSUED **

A. M. & Associates, Inc.

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 (218) 768-4430

Michael D. O'Keeffe

Annette M. O'Keeffe

SEPTIC SYSTEMS
 DESIGNS * INSPECTIONS * MAINTENANCE
 MPCA #1357

**MAINTENANCE, MONITORING AND INSPECTION REPORT
 FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM**

**2nd YEAR SERVICE
 June 1, 2005 thru May 31, 2006**

Property Owner(s): **RICHARD VIGSTOL**
 Home Address: **49610 HWY 65** Site Address: **SAME**
McGREGOR, MN 55760 **BIG SANDY LAKE**
 Phone: **(218) 426-4268**
 Township: **SHAMROCK**
 Parcel Code: **29-0-035100**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

3 BEDROOM OSI SANDFILTER TIME DOSED INTO A 2½ BEDROOM 1 FOOT SANDBASE MOUND

This ISTS is to have the wastewater gravity from the proposed house into a new 1960 combination 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, Timed Dosed at a maximum of 375 gpd, into a downsized 2 ½ Bedroom 1 foot sandbase Mound with a 10' x 32' Rockbed.
 2 ½ Bedrooms, 375 gpd (max), 11,250 gallons per month.

Installation Date: 06/01/2004 Installer: Ernie Darlow Phone#: (218) 426-4320

JUNE 2005 THRU MAY 2006 MAINTENANCE & MONITORING RESULTS

Date Maintained: 07/21/2005

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 = 903 min CNT = 1475 SF ETM = 1155 min CNT = 1303
4. Confirm operation of audible and visual alarms	Good
5. Test Pump Amperage	Not Checked at This Time

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good
2. Inspect splice box for moisture and secure connections	Drilled Drainage Hole (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	Cleaned
6. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Good
2. Clean (if needed)	Cleaned

JUNE 2005 THRU MAY 2006 MAINTENANCE & MONITORING RESULTS

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 8" Scum level = 0" (No Clear Zone)
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

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding, assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good -height = approx 3 ½ ft
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	Good

JUNE 2005 THRU MAY 2006 MAINTENANCE & MONITORING RESULTS

MISCELLANEOUS	RESULTS	
1. Review water usage from water meter records.	Date	Gallons Used
	06/28/04	2860
	07/06/04	750
	07/24/04	1240
	08/09/04	1630
	09/06/04	2020
	10/06/04	1160
	11/02/04	1450
	12/01/04	1740
	12/22/04	970
	01/20/05	4530
	02/10/05	940
	02/25/05	780
	03/15/05	1390
	04/03/05	500
	05/25/05	1980
	06/01/05	1070
	06/29/05	840
	07/05/05	1010
	07/21/05	110
	08/03/05	930
	09/02/05	1560
	09/06/05	1010
	09/19/05	1490
	12/01/05	3700
01/04/06	3860	
02/05/06	2030	
02/13/06	1730	
03/07/06	2910	
03/31/06	1030	
04/06/06	440	

COMMENTS: ALL COMPONENTS LOOK GOOD.

Drainfield is sized for 2 ½ Bedrooms, 375 gpd, 11,250 gallons per month. Water usage is well within limitations.



4/30/2006

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

**ONE YEAR
MAINTENANCE, MONITORING AND INSPECTION SERVICE CONTRACT
FOR INDIVIDUAL SEWAGE TREATMENT SYSTEM
FOR June 1st 2006 thru May 31st 2007**

It is hereby agreed this 6th day of April, 20 06 by and between A.M. & Associates, Inc. and

Property Owner(s): **RICHARD VIGSTOL**

Parcel Code: **29-0-035100**

Home Address: **49610 HWY 65
McGREGOR, MN 55760**

Site Address: **SAME**

Phone (home) **(218) 426-4268**
(cell) **(612) 991-1532**
(fax)

Township **SHAMROCK**
Phone: **(218) 426-4268**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

3 BEDROOM OSI SANDFILTER TIME DOSED INTO A 2½ BEDROOM 1 FOOT SANDBASE MOUND

This ISTS is to have the wastewater gravity from the proposed house into a new 1960 combination 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, Timed Dosed at a maximum of 375 gpd, into a downsized 2 ½ Bedroom 1 foot sandbase Mound with a 10' x 32' Rockbed.

Installation Date: **06/01/2004**

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.

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 June 1st 2006 and ending May 31st 2007.

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: **RICHARD VIGSTOL** (please print) *Richard Vigstol* (signature) Date: 01-06-06

Spouse: _____ (please print) _____ (signature) Date: _____

A.M. & Associates, Inc.:

Name: **MICHAEL D. O'KEEFFE** (please print) *Michael D. O'Keefe* (signature) Date: 5-3-06

**AITKIN COUNTY
ENVIRONMENTAL SERVICES**

209 SECOND STREET NW
AITKIN, MN 56431
218-927-7250

Wednesday, March 15, 2006

Richard Vigstol
49610 Hwy 65
McGregor, MN 55760-

Re: Operating Permit #: 117
Parcel Identification #: 29-0-035100

Dear Resident:

This letter is to remind you that the Operating Permit for the septic system on the above listed parcel of land will expire on May 31, 2006. The operating permit (OP) was issued as a MN Pollution Control Agency requirement to allow the installation of your septic system and must be renewed annually until the County and your Compliance Inspector agree that the system is being properly maintained and is operating appropriately. As a condition of the OP, your septic system must be monitored for the following performance standards:

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
FLOW	450 GPD	WATER METER	MONTHLY	RECORD ON LOG SHEET	ANNUALLY
SEPARATION	1 FOOT	DISPERSAL SYSTEM	ANNUALLY	MEASURE IN FIELD	ANNUALLY

In addition, the following maintenance practices must be performed:

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

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 high performance of the system. Failure to perform the monitoring and maintenance of this system could cause costly repairs or replacement and is a violation of the Aitkin County Individual Sewage Treatment System and Wastewater Ordinance.

A copy of this letter will be sent to A.M. & Associates Inc.

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

March 17, 2006

Richard Vigstol
49610 Hwy 65
McGregor, MN 55760
Parcel# 29-0-035100

Dear Richard,

You may have recently received a notice from Aitkin County stating that your Operating Permit for your Septic System is up for renewal by May 31, 2006. This is for June 1, 2006 thru May 31, 2007.

In order for me to complete the Maintenance and Monitoring Report for 2005, (June 1, 2005 thru May 31, 2006), I will need to have your water meter readings from July 21, 2005 through now.

Also, in order for you to renew your 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 2 copies of a new 1 year Service Contract for the year 2006 which begins June 1st 2006 and ends May 31st 2007. Please *read and sign* page 4 of both copies. Mail "both" copies back to me along with a pre-paid annual service fee of \$150.00.

Once I have received your current water meter readings, the signed contracts along with your check, I will complete the required paperwork and mail the packets to you for you to submit to Aitkin County.

If you have any questions, please feel free to give me a call (after 6:00pm).



Annette O'Keeffe
(218) 768-4430

JUL 17 2009

AITKIN COUNTY ENVIRONMENTAL SERVICES

**OPERATING PERMIT FOR WASTEWATER
TREATMENT AND DISPERSAL**

OPERATING PERMIT #: 117

FEE: 100

PERMITTEE: Richard Vigstol

PHONE: (218) 426-4268

ADDRESS: 49610 Hwy 65
McGregor, MN 55760-

ZONING PERMIT # 30601

PARCEL #: 29-0-035100

ISSUE DATE: 5/31/2009

RENEW DATE: 5/31/2010


LEGALDESCRIPTION: part of Govt Lot 5 in NE SW in Doc 275216

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

Date 07-16-09


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. M. & Associates, Inc.

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

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

June 26, 2009

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

r.e. Richard Vigstal Maintenance & Monitoring
Parcel # 29-0-035100
49610 Hwy 65
McGregor, MN 55760

All components of Richard's Septic System is performing as designed. Therefore we are recommending to Aitkin County that your Operating Permit be renewed every 5 years instead of annually. This means the Operating Permit Richard is about to renew will be good until May 31st 2014. 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, 2006 thru May 31, 2009

Property Owner(s): **RICHARD VIGSTOL**
Home Address: **49610 HWY 65** Site Address: **SAME**
McGREGOR, MN 55760 **BIG SANDY LAKE**
Phone: **(218) 426-4268**
Township: **SHAMROCK**
Parcel Code: **29-0-035100**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

3 BEDROOM OSI SANDFILTER TIME DOSED INTO A 2½ BEDROOM 1 FOOT SANDBASE MOUND

This ISTS is to have the wastewater gravity from the proposed house into a new 1960 combination 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, Timed Dosed at a maximum of 375 gpd, into a downsized

2 ½ Bedroom 1 foot sandbase Mound with a 10' x 32' Rockbed.

2 ½ Bedrooms, 375 gpd (max), 11,250 gallons per month.

Installation Date: 06/01/2004 Installer: Ernie Darlow Phone#: (218) 426-4320

JUNE 2006 THRU MAY 2009 MAINTENANCE & MONITORING RESULTS

Date Maintained: 09/22/2008

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 = 6165 min CNT = 3806 SF ETM = 4788 min CNT = 4734
4. Confirm operation of audible and visual alarms	Good
5. Test Pump Amperage	Not Checked at This Time

LIFT PUMPING STATION	RESULTS
1. Verify no leaks in riser	Good
2. Inspect splice box for moisture and secure connections	Good
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	Owner needs to make Accessable - too deep
6. Check general appearance	Good

EFFLUENT FILTERS/PUMP SCREENS	RESULTS
1. Check effluent filter for buildup of biomat growth.	Good
2. Clean (if needed)	Cleaned

JUNE 2006 THRU MAY 2009 MAINTENANCE & MONITORING RESULTS

SEPTIC TANK	RESULTS
1. Measure sludge and scum level	Sludge level = 14" Scum level = 4-6" (No Clear Zone)
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

PRETREATMENT DEVICE	RESULTS
1. Inspect for ponding; assess character and color of biomat	Good
2. Test pressurization of laterals (squirt test)	Good -height = approx 3 ft
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	Good

JUNE 2006 THRU MAY 2009 MAINTENANCE & MONITORING RESULTS

MISCELLANEOUS	RESULTS	
	<u>Date</u>	<u>Gallons Used</u>
1. Review water usage from water meter records.	06/28/04	2860
	07/06/04	750
	07/24/04	1240
	08/09/04	1630
	09/06/04	2020
	10/06/04	1160
	11/02/04	1450
	12/01/04	1740
	12/22/04	970
	01/20/05	4530
	02/10/05	940
	02/25/05	780
	03/15/05	1390
	04/03/05	500
	05/25/05	1980
	06/01/05	1070
	06/29/05	840
	07/05/05	1010
	07/21/05	110
	08/03/05	930
	09/02/05	1560
	09/06/05	1010
	09/19/05	1490
	12/01/05	3700
	01/04/06	3860
	02/05/06	2030
	02/13/06	1730
	03/07/06	2910
	03/31/06	1030
	04/06/06	440
	04/28/06	670
	06/30/06	6040
	07/04/06	1110
	07/30/06	2040
	08/27/06	3340
	09/29/06	3070
10/31/06	2720	
12/17/06	2620	
01/31/07	3810	
03/01/07	1910	
04/12/07	3660	
04/27/07	940	
05/30/07	2820	
06/26/07	2930	
07/21/07	2300	
08/13/07	2150	
09/04/07	2320	
10/04/07	2050	
11/14/07	2890	

CONTINUED

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 2009 thru May 31st 2014

It is hereby agreed this 26th day of June, 20 09 by and between A.M. & Associates, Inc. and

Property Owner(s): **RICHARD VIGSTOL**

Parcel Code: **29-0-035100**

Home Address: **49610 HWY 65
McGREGOR, MN 55760**

Site Address: **SAME**

Phone (home) **(218) 426-4268**
(cell) **(612) 991-1532**
(fax)

Township **SHAMROCK**
Phone: **(218) 426-4268**

DESCRIPTION OF INDIVIDUAL SEWAGE TREATMENT SYSTEM

3 BEDROOM OSI SANDFILTER TIME DOSED INTO A 2½ BEDROOM 1 FOOT SANDBASE MOUND

This ISTS is to have the wastewater gravity from the proposed house into a new 1960 combination 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, Timed Dosed at a maximum of 375 gpd, into a downsized 2 ½ Bedroom 1 foot sandbase Mound with a 10' x 32' Rockbed.

Installation Date: 06/01/2004

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 2009 and ending May 31st 2014.

FEES

Maintenance, Monitoring & Inspection Service Contract	\$150.00	Due at time of Service is performed
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: RICHARD VIGSTOL (please print) * Richard Vigstol (signature) Date: 07-16-09

Spouse: _____ (please print) _____ (signature) Date: _____

A.M. & Associates, Inc.:

Name: MICHAEL D. O'KEEFFE (please print) Michael D O'Keefe (signature) Date: 06/26/2009

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW
Aitkin, Minnesota 56431

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



August 26, 2009

RE: Renewed Operating Permit

Dear Richard Vigstol,

This letter is to inform you that your Operating Permit (No. 117) has been renewed until May 31, 2014. You should note that all renewal dates that were formerly on December 31 have been moved forward to allow your Operation and Maintenance provider suitable time to complete the monitoring report.

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

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

Sincerely,

Pete Gansen
Aitkin County Planning & Zoning and
Environmental Services

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

ISSUANCE DATE: 5 /31/2014
RENEWAL PERIOD: ~~ANNUALLY~~
5-Year

OPERATING PERMIT #: 117
ZONING PERMIT #: 30601
PARCEL #: 29-0-035100

PERMITTEE: Richard Vigstol

TELEPHONE: (218) 426-4268

MAILING ADDRESS:
49610 Hwy 65
McGregor, MN 55760-

PROPERTY ADDRESS:
49610 State Hwy 65
McGregor, MN 55760

LEGAL DESCRIPTION: part of Govt Lot 5 in NE SW in Doc 275216

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

05-28-14

Date



Signature of Permitting Authority

5-28-14

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# 9276, receipt # 199228 \$100 5/28/14

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

This ISTS will gravity from the proposed house into a new 1960 combination tank. From there the liquids are pumped into a 12X30 OSI Sand filter. AN OSI pump vault placed in the sand filter will pump the treated liquids. Treated liquids will be dosed at a maximum of 375 gpd, into a downsized 2.5 bedroom 1-foot sandbase mound with a 10X32 rockbed. System construction \$12,000 +, Operation \$10/mo, \$150 /year

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	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY
Flow	450 gpd	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY
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

John Walsh

O&M Service Provider Program for Onsite Wastewater Treatment Systems

COUNTY COPY

Form 5.2 Operational Checklist: SEPTIC, TRASH, AND PROCESSING TANKS (STPT)

Service provided on: Date: _____ Time: _____ Reference #: _____
Service provided by: Company: _____ Employee: _____
Date of last service: Visual By: You Other: _____
Date of last inspection: _____

Type: Septic tank Trash tank Processing tank Pump vault present
5 year O&M permit (3 year service) NOTES

- 2. Conditions at the tank
a. Evaluate presence of odor within 10 ft of perimeter of system:
 None Mild Strong Chemical Sour
b. Source of odor, if present: _____
3. Tank description
a. Material: Concrete Fiberglass Plastic
b. Capacity: 1500 gal
c. Compartmented? Yes No
d. Capacities for compartmented system: 1) _____ gal 2) _____ gal
4. Tank access
a. Access location: Inlet Outlet Center
b. Located at grade? Yes No
c. If 'No', how deep is lid buried? _____
d. Risers on tank? Yes No
e. Evidence of infiltration in risers? Yes No
f. Lids securely fastened? Yes No
g. Lid in operable condition? Yes No
5. Alarm(s)
a. Alarm(s) present? Yes No
b. Audio alarm operational? N.A. Yes No
c. Visual alarm operational? N.A. Yes No
d. Remote telemetry operational? N.A. Yes No
e. Electronic monitoring operational? N.A. Yes No
6. Current tank operating conditions
a. Liquid level relative to outlet: 0" in
 At Above Below
b. Maximum liquid level of tank (invert of inlet pipe): _____ in
c. Height at which alarm is activated as measured from invert of inlet: _____ in
d. Evidence liquid level has been higher? Yes No
e. Evidence liquid level dropped without pumping? Yes No
f. Evidence of continuous inflow? Yes No
g. Date of last pumpout: _____
h. Presence of flocculant in clear zone? Yes No
i. Evaluation of layers in tank:

2. Acceptable Unacceptable
4. Acceptable Unacceptable
5. Acceptable Unacceptable
6. Acceptable Unacceptable

Table with 6 columns: Compartment Number, Scum (in) (Depth, Color*), Clear Zone (in) (Depth, Color), Sludge (in) (Depth, Color), Odor, Other. Row 1: 1, 4, [blank], [blank], 4, [blank], [blank]. Row 2: 2, 0, [blank], [blank], 3, [blank], [blank].

ST pump

*Color Choices: Clear Flocced Milky Muddy Grainy Black Brown Mustard Gray White
7. Septic tank pumping recommended? Yes No

System OK!

O&M Service Provider Program for Onsite Wastewater Treatment Systems

Reference #: _____

8	Baffles currently structurally sound?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	8. <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable 9. <input checked="" type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable
	a. Inlet baffle in place?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
	b. Outlet baffle in place?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
	c. Compartment baffle in place?	N.A. <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
	d. Effluent screen?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
	Manufacturer: _____ Model: _____			
	e. Is screen accessible from ground surface?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
	f. If screened, percent plugged:	10	%	
	g. Was screen cleaned?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
9	Tank structural condition (evaluate if tank pumped):	N.A. <input checked="" type="checkbox"/>		
	a. Appears to be watertight (no visual leaks)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
	b. Rebar exposed?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
	c. Corrosion present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
	d. Spalling present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
	e. Cracks present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
	f. Root intrusion?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
10	Contractor responsible for pumping:			
	a. Gal removed: _____	Date: _____		
11	Lab samples collected for monitoring?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
	Types of analysis: _____			

O&M Service Provider Program for Onsite Wastewater Treatment Systems

Form 7.1 Operational Checklist: MEDIA FILTER (MF)

Service provided on Date: _____ Time: _____ Reference #: _____
 Service provided by Company: _____ Employee: _____
 Date of last service: _____ By: You Other: _____
 Date of last inspection: _____

1. Type of media filter

Single-pass Sand Foam Peat Other: _____
 Recirculating Sand/gravel Foam Textile Other: _____
 Trickling filter Gravel Plastic Textile Other: _____
 Upflow filter Gravel Plastic Textile Other: _____

a. Manufacturer: _____ Model #: _____
 b. Distribution method: Pressure distribution Gravity distribution

2. Conditions at media filter

a. Evaluate presence of odor within 10 ft of perimeter of system:
 None Mild Strong Chemical Sour
 b. Source of odor, if present: _____

3. Cover

a. Type of cover Free access Buried Lid
 b. Filter cover intact? Yes ___ No ___
 c. Method of securing cover _____
 d. Distribution component accessible? Yes ___ No ___
 e. Surface water/infiltration into components? Yes ___ No ___

4. Venting/Air supply

Passive Active Not present
 a. Supply Aspirator Compressor Blower Free air (go to 4.g)
 b. Operation Continuous Timed (On ___ min., Off ___ min)
 c. Air supply unit operating properly? Yes ___ No ___
 d. Pressure at air supply unit: _____ psi
 e. Air flow at air supply unit: _____ cfm
 f. Air filter/screen: Cleaned Replaced
 g. Venting appears operable? Yes ___ No ___

5. Media surface

a. Biomats on surface? Yes ___ No
 b. Uniform gravity distribution? N.A. Yes ___ No ___
 c. Uniform spray pattern? N.A. Yes ___ No ___
 d. Ponding in/on media? Yes ___ No
 e. Plugging/clogging of distribution components? Yes ___ No
 f. Media appears to be settling? Yes ___ No
 g. Appropriate maintenance performed? Yes ___ No
 h. Animal activity at surface? Yes ___ No

6. Effluent quality

a. Turbidity clear NTU
 b. Oily film on the surface of effluent? Yes ___ No
 c. DO at outlet: _____ mg/L
 d. pH at outlet: _____
 e. Temperature at outlet: _____
 f. Bypass or overflow noticed? Yes ___ No
 g. Effluent odor after passing through media filter:
 None Mild Strong
 h. Effluent color after passing through media filter:
 Clear Brown Black

NOTES

2. Acceptable
 Unacceptable
3. Acceptable
 Unacceptable
4. Acceptable
 Unacceptable
5. Acceptable
 Unacceptable
6. Acceptable
 Unacceptable

O&M Service Provider Program for Onsite Wastewater Treatment Systems

Reference #: _____

7. Pressure distribution: " N.A. _____
- a. Distal head before cleaning Yes No _____
- i) Equal height? _____ in
- ii) Height (inches): 60
- b. Lateral condition Yes No _____
- i) Laterals in need of cleaning? Yes No _____
- ii) Laterals cleaned? _____
- iii) Method for cleaning laterals: Flushing
- c. Distal head after cleaning Yes No _____
- i) Equal height? _____ in
- ii) Height (inches): 60
8. Gravity distribution: N.A. _____
- a. Device: Yes _____ No _____
- b. Uniform distribution? Yes _____ No _____
- c. Operating properly? Yes _____ No _____
9. Filter drainage systems Yes _____ No
- a. Ponding in media filter sump? N.A. _____ Yes No _____
- b. Gravity drainage operational? N.A. _____ Yes _____ No
- c. Solids buildup in sump area? N.A. _____ Yes _____ No
- d. Underdrain vents present? Yes No _____
- e. Underdrain vents appear operable? Yes No _____
10. Additional tasks for recirculating filters _____ mg/L
- a. DO in recirculation tank: N.A. _____ Yes _____ No _____
- b. Inspected recirculating device? N.A. _____ Yes _____ No _____
- c. Cleaned recirculating device? _____
- d. Design recirculation ratio: _____
- e. Actual recirculation ratio: _____
- f. Recirculation changed to: _____
- *If dam configuration, recirculation device cannot be inspected or cleaned
11. Additional tasks for trickling filters _____
- 11.1 Clarification chamber
- a. Solids blanket below recirculation pump inlet? Yes _____ No *
- *If no, was system pumped out? Yes _____ No _____
- b. If screened inlet, was screen cleaned? Yes _____ No _____
- 11.2 Sludge return
- a. Solids blanket slightly above return pump? Yes _____ No _____
- b. Changed solids return rate? Yes _____ No _____
- i) Pump: Off On
- ii) Changed from _____ min to _____ min
12. Manufacturer's required maintenance performed? Yes _____ No _____
- (If 'Yes', attach Manufacturer Inspection form to this report, if supplied)
13. Lab samples collected for monitoring? Yes _____ No _____
- Types of analysis: _____

7. Acceptable
 Unacceptable

8. Acceptable
 Unacceptable

9. Acceptable
 Unacceptable

10. Acceptable
 Unacceptable

11.1 Acceptable
 Unacceptable

11.2 Acceptable
 Unacceptable

ST CT - 11988
ETM - 7364

ST AT - 10865
ETM - 10092

Septic Tank Water Usage

06/01/04 Timer
Set

06/28/04-02860
07/24/04-04850
08/09/04-06480
09/06/04-09300
10/06/04-10460
11/02/04-11910
12/01/04-13650
12/22/04-14620
01/20/05-19150
02/10/05-02090
03/15/05-22260
04/03/05-22760
05/25/05-24740
06/01/05-25810
06/29/05-26650
07/05/05-27660
07/21/05-27770
08/03/05-28700
09/06/05-31270
09/19/05-32760
12/02/05-36460
01/04/06-40320
02/05/06-42350
02/13/06-44080
03/07/06-46990
03/31/06-48020
04/06/06-48460
04/28/06-49130
06/30/06-55170
07/04/06-56280
07/30/06-58320
08/16/06-60850

08/27/06-61660
09/29/06-64730
10/31/06-67450
12/17/06-70070
01/06/07-72910
01/17/07-73350
01/31/07-73880
03/01/07-75790
04/12/07-79450
04/27/07-80390
05/30/07-83210
06/26/07-86140
07/21/07-88440
08/14/0789590
09/04/07-92910
10/04/07-94360
11/14/07-97850
12/23/07-100170
01/02/08-102400
02/06/08-105410
03/25/08-107680
05/06/08-110370
05/23/08-111600
05/28/08-112700
07/05/08-115740
07/07/08-117160
08/01/08-118300
08/27/08-119610
09/22/08-121210
09/22/08-system
check
11/02/08-124160
12/06/08-125770
12/13/08-126130
01/20/09-127760
02/02/09-128420
03/09/09-129760
04/14/09-131110
05/04/09-132510
05/21/09-132930
05/27/09-134850
07/03/09-136040
07/06/09-137450
08/12/09-138380
09/04/09-139600

09/24/09-141470
10/29/09-143060
12/10/09-144310
12/26/09-145530
02/06/10-146850
03/02/10-148350
05/02/10-151300
07/06/10-155810
08/04/10-158160
09/02/10-159940
12/12/10-164750
01/02/11-165850
01/31/11-167500
03/15/11-171230
04/01/11-171750
05/14/11-173540
06/01/11-175490
07/03/11-177380
08/01/11-179200
09/01/11-181030
09/30/11-182800
11/07/11-184910
12/02/11-185920
12/27/11-187080
02/05/12-189150
05/04/12-193550
06/21/12-194710
08/18/12-198540
installed water
filter
09/04/12-201530
09/10/12-201970
09/11/12-system
check
09/12/12-202010
tank pumped
kangas /\$155.00
10/27/12-204560
11/28/12-205330
01/04/13-207290
01/28/13-208690
03/07/13-209050
04/05/13-210310
05/02/13-211840
06/01/13-213900

07/01/13-215600
07/07/13-217070
08/04/13-218280
09/15/13-221710
10/07/13-222330
11/10/13-224340
12/05/13-225590
01/12/14-227680
02/02/14-228550
filter change
03/10/14-230330
03/31/14-231340
05/05/14-233280

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

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



5/28/2014

Richard Vigstol
49610 Hwy 65
McGregor, MN 55760-

Re: Operating Permit # 117
Zoning Permit # 30601
Parcel # 29-0-035100

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

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100

Aitkin, Minnesota 56431

PH: (218) 927-7342

FX: (218) 927-4372



5/9/2019

Richard Vigstol
49610 State Hwy 65
McGregor, MN 55760

Re: Operating Permit # 117
Zoning Permit #30601
Parcel ID#29-0-035100

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



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): 5/22/2019

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: 29-0-0351000

Property address: 49610 St Hwy 65 McGregor MN 55760 Reason for inspection: Operating permit

Property owner: Richard Vigstol Owner's phone: 426-4268

or
Owner's representative: _____ Representative phone: _____

Local regulatory authority: Aitkin County Regulatory authority phone: _____

Brief system description: Precast tank , Single pass sand filter, and mound

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: Ron Myers Certification number: 697

Business name: Ron-ex License number: 697

Inspector signature:  Phone number: 259-9273

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.

Comments/Explanation:

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)

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.

Comments/Explanation:

tank will be pumped

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)

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: 7/8/2004 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:

Indicate depths or elevations

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

*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: <u>117</u> 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.

Water usage	07/01/2013—215600
05/04/2012—193550	07/07/2013—217070
06/21/2012—194710	08/04/2013—218280
08/18/2012—198540	09/15/2013—221710
09/04/2012—201530	10/07/2013—222330
09/12/2012—201970	11/10/2013—224340
Tanks pumped	12/05/2013—225590
09/12/2012—202010	01/12/2014—227680
10/27/2012—204560	02/02/2014—228550
11/28/2012—205330	Filter change
01/04/2013—207290	03/10/2014—230330
01/28/2013—208690	03/31/2014—231340
03/07/2013—209050	05/05/2014—233280
04/05/2013—210310	06/04/2014—236140
05/02/2013—211840	07/02/2014—236610
06/01/2013—213900	08/04/2014—238840

09/03/2014—224470

10/03/2014—245450

11/08/2014—247690

12/08/2014—249890

Filter change

01/01//2015—250880

02/01/2015—251860

03/04/2015—253620

03/24/2015—254170

Kangas pumped

tank/mound

frozen/shut off breaker

04/16/2015

Turned back on

05/07/2015—256190

06/02/2015—257620

07/04/2015—259850

09/15/2015—263100

10/02/2015—264930

12/05/2015—268710

01/04/2016—269990

02/15/2016—273820

03/07/2016—276510

04/21/2016—277500

05/06/2016—279960

05/26/2016—279960

Filter change

06/04/2016—281380

07/04/2016—284260

08/03/2016—286460

10/05/2016—291630

11/05/2016—293170

12/01/2016—294140	07/06/2018—329560
01/06/2017—296200	08/04/2018—331940
02/05/2017—298900	09/04/2018—334140
03/01/2017—300200	10/02/2018—335970
05/20/2017—303010	10/30/2018—338120
06/09/2017—305370	12/02/2018—339750
07/11/2017—309100	01/05/2019—342010
08/01/2017—310460	02/18/2019—354620
10/06/2017—315420	03/14/2019—347610
11/03/2017—316570	03/31/2019—348880
12/10/2017—318440	05/07/2019—350360
01/16/2018—320550	Fliter change
02/05/2018—321810	
04/02/2018—323060	
05/09/2018—325520	
06/03/2018—326420	

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

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

OPERATING PERMIT #: 117
ZONING PERMIT #: 30601
PARCEL #: 29-0-035100

PERMITTEE: Richard Vigstol

TELEPHONE: (218) 426-4268

MAILING ADDRESS:
49610 State Hwy 65
McGregor, MN 55760

PROPERTY ADDRESS:
49610 State Hwy 65
McGregor, MN 55760

LEGAL DESCRIPTION: Part of Govt Lot 5 in NE SW in Doc 275216

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.

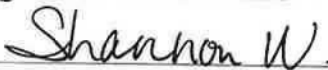
I hereby certify with my signature as the permittee that I understand the provisions of this permit including the maintenance and monitoring requirements. I agree to indemnify and hold Aitkin County harmless from all loss, damages, costs and charges that may be incurred by use of this system and if I 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

05-20-19

Date



Signature of Permitting Authority

5-22-2019

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 #47824 (05/29/2019)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) App. # App-2019-004539, UID # 197862

Richard & Valerie Vigstol

(218) 927-7342

49610 HWY 65, 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 05/29/2019 2:16 PM \$100		\$100.00	x 1	\$100.00	
Grand Total					
				Total	\$100.00
Payment #45131					
Method:	Check		9449		
Date:	05/29/2019	Note:	49610 HWY 65, McGregor, MN 55760		
Made By:	Richard & Valerie Vigstol				
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



5/30/2019

Richard Vigstol
49610 State Hwy 65
McGregor, MN 55760

Re: Operating Permit # 117
Zoning Permit # 30601
Parcel # 29-0-035100

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