502

ZONING PERMIT APPLICATION

D - C. C. C. A. A. C. C.	
FULL NAME BOTS SAVERER TELE # 218-820-7019	OFFICE USE ONLY
MAIL ADDRESS 45049 350 ST	- 0-29 CM
AITKIN STATE MM ZIP 56431	DATE 8-39-05 APPROVE DENY
911 ADDRESS OF PROPERTY T. B.D.	PERMIT# 333/6
CITY AITHON STATE MY ZIP 56431	PARCEL# 01-0-0/3502
TOWNSHIP ATTEN TWNSP.	a 799
566 A 431AC of 601/3	RECEIPT# 0100
20 14 Docage	CONFORMING SEPTIC
SECTION 3 TOWNSHIP 47 RANGE 27 TOWNSHIP	100 YES P# NO (NEW
(circle) RESIDENTIAL COMMERCIAL ACCESSORY NEW BUILDING ALTERATI	ON
BUILDING CONTRACTOR AND LICENSE NUMBER: NOR-SON THE	0/169
SIZE OF ALL BUILDINGS COVERED BY THIS APPLICATION	1
(1) HOUSE + GAMGE 40'X 67-8" = 2706 SF Z90 3	XIG PATIO
2) SHEO (garage) 40' X 30' = 1200 SF 150	
3) GAZERO 20 X 20 = 400 SF 151	(150) - (250 t50)
COMMENTS: 40 UMPR SEPTIC (SanOVA)	Harry Harry
PROPERTY WILL BE PURCHOSES BY JIM	& KRISTIN HARRY ON
34322 44200 PLACE	
AITKIN, M4 56431 218-927-7024	
DESIGNER: DENNIS SLAYTON	TOHN WALSH
	OMS/GPD 5 BESEOW /750
To undersigned hereby makes application for permit to construct as herein specified, agreeing to do all such work in strict accordance	e with the Ordinances of the County of Aitkin, Minnesota; Minnesote
dual Sewage Disposal Code Minimum Standards set forth by Minnesota Department of Health; and Shoreland Management S acant agrees that plot plan, sketches and specifications submitted herewith and which are approved by the Zoning Official, shall be	Standards set forth by Minnesota Department of Natural Resources
NO PART OF THE SEWAGE SYSTEM SHALL BE COVERED UNTIL IT HAS BEEN INSPECTED AND ACCEPTED. It shall be of Office (at least 24 hours in advance) that the Septic System is regard for inspection.	the responsibility of the applicant for the permit to notify the Zoning
	Son INC
SIGNATURE APPLICANT/AGENT	-A ANC
DO NOT WRITE BELOW THIS LINE	NAME OF THE PARTY
ZONING DISTRICT & FLOOD PLAIM / STRUCTURE SET	BACK DISTANCE REQUIREMENTS
ZONING DISTRICT (Measure	from eaves or overhand)
LAKE/STREAM/RIVER NAME CECUT LAKE OHW TO LAKE/RIVE	R/STREAM /OO BACK (10-91. / 20-ft.)
CETRACK TO POAD	R.O.W.((30-ft, Jwp. / 50-ft, Co., State, Fed.)
PARCEL LOCATED IN FLOOD PLAIN? YX N SETBACK TO BLUFF	
SEPTIC SYSTEM	SETBACK DISTANCES
SETBACK TO STRUC	TURES - (10-ft) Tank (20-ft) Drainfield
ELEV. CERTIFICATE REQUIRED Y N PROPERTY LINE SET	
AFTER CONSTRUCTION YAN SETBACK TO ROAD	
ATTACH COPY OF ELEVATION CERTIFICATES	
SOIL BORINGS SEPTIC DESIGN OTHER GARBAGE DIS	P/HOT TUB
SSF DEPTH TO RESTRICTING LAYER YES NO	
MIN, SIZE SEPTIC TANK MIN. SIZE PUMP TANK	
DRAINFIELD: MINIMUM SQ.FT WITH INCHES ROCK BELOW	
MOUND: MINIMUM ROCK BED SQ.FT WITH 9 INCHES ROCK BELOW PIPE MIN. UPSLOPE SAND WIDTH MIN. DOWNSLOPE SAND WIDTH ET	
OMMENDATIONS:	TO SOME MICHIE
V F()	
EXPIRES IN ONE YEAR . Altkin County Ioning	Da 20 1

WHITE - County

Telephone 218/927-7342

YELLOW - Applicant

FEE

PINK - Township

FIELD EVALUATION SHEET	
67/1 Sugar	
NAME BOD Schever PERMIT # 333/6 PARCEL# 01-0-075502 TWP ALKIL SECTION	
PARCEL # DY-0-075502 TWP ATHELL SECTION	
CHECK THE FOLLOWING PRIOR TO INSPECTION	
NAME OF SITE EVALUATOR	
NAME OF DESIGNER	
NAME OF INSTALLER	
LOT OF RECORD BEFORE 1-21-92 (SL) IR 1-10-95 (NSL), IF NO, ALT.SITE?	
SITE PLAN WITH SETBACK DISTANCES AND DIMENSIONS	
ARE ISTS SITES PROTECTED FROM DAMAGE? IF NOT, WHEN	
DESIGN PERC TESTS SOIL BORINGS, 2 PER SITE	
NUMBER OF BEDROOMS (INCLUDE POTENTIAL)	
CROSS SECTION SHEET TRENCH DESIGN SHEET	
MOUND DESIGN SHEET OTHER OR PERFORM.	
PRESSURE DISTRIBUTION SHEET PUMP CALC. TEST	
WATER USE CALCULATIONS	
OGARBAGE DISPOSALOHOT TUB	
EASEMENTS ON LOT, IS ROAD PUBLIC OR PRIVATE SEE DEED/PLAT	
NATURAL LANDSCAPE PROTECTION PLAN	
CT. LING N. D.	
STAKING: BUILDINGS X, DRAINFIELD BUILDING SETBACKS: ROAD , SIDE , REAR , BLUFF ,	
BUILDING SETBACKS: ROAD, SIDE, REAR, BLUFF,	
LAKE/RIVER	
COMPLETE DURING SITE EVALUATION PLIN DINGS STAKED DRADELL D STAKED DODINGS STAKED	
BUILDINGS STAKEDDRAINFIELD STAKEDBORINGS STAKED	
WELL STAKED	
SETBACKS (MEASURE DISTANCE)	
DRAINFIELD HOUSE	
FLOOD PLAIN YES/NO YES/NO	
WETLANDS YES/NO YES/NO,	
LAKE, RIVER, PROTECTED WATERS 7/40	
POAD DICHT OF WAY	
BLUFF SIDE LOT LINE REAR LOT LINE OK OK OK OK OK OK OK OK OK O	**
SIDE LOT LINE	U
REAR LOT LINE	
HOUSE OR OTHER STRUCTURE	
WELL NonE	
EASEMENTS	
NEIGHBORING WELL (S) TO ISTS (1) (2) (3) (4)	
DRAINFIELD AREA DISTURBED	
CONFORMING SEPTIC SYSTEM: YES NO If no, list reasons below.	
COMMENTS OR PROBEMS (drainage, swales, wetlands, need gutters, etc.) TO BE IN SWILED	
NO AUGAR-THE ATTREASED GARAGE W. ZL BK Aful C COSE TO	
THE PROPERTY IF THE HAVIR ANY OVERANGE	
APPROVED: YES OR NO	
INSPECTORS NAME ALLOS DATES -29-05 # PICTURES	
INSPECTORS NAME / / LANGE DATE 9 - 2 G - 2 C # PICTURES	

SOIL BORING LOGS AND SKETCH PLAN ON REVERSE SIDE

SOIL BORING LOG #1		SOIL BORIN	NG LOG #2	
DEPTH TEXTURE	COLOR	DEPTH	TEXTURE	COLOR
DENTIFY LOCATIONS OF: (BO DRAINFIELDS, DRAINAGE PAT BITE).	PRINGS, NEIGI TERNS, OR O	HBORING STRU THER FEATURI	JCTURES, WELLS ES THAT MAY IMP	ACT THE

Dennis P. Slayton

PROPERTY DATA RESEARCH

27405 Timber Drive Merrifield, MN 56465 Phone: 218-765-3356

sala@brainerd.net Fax: 218-765-3356

FAX MEMO

DATE:

August 19, 2005

TO:

AITKIN COUNTY

PLANNING & ZONING

ATTN: RICH

FAX #:

218 927-4372

TOTAL # OF PAGES: 6

RE:

Jim & Kristin Harris (Buyer)

FROM:

Dennis P. Slayton

FROM FAX NUMBER: 218-765-3356

COMMENTS:

Please find attached Site Evaluation & Septic Design for Jim & Kristin Harris (Buyer)

Just talked with John Walsh, MN Onsite Specialists, he suggested some minor changes which have been completed.

If you have any questions, kindly contact me.

Dennis

fc: Nor Son; Chad

MN Onsite Specialists; John

PDR 508-17117 F-1 Airkin Cty P&Z

DEPTH TO STANDING WATER OR MOTTLED SOIL: BORING# 1	, 1A, 2,2A
BOTTOM ELEVATION-FIRST TRENCH OR BOTTOM OF ROCK BEI	D: #1FT., #2FT.
SOIL SIZING FACTOR: SITE # 1, SITE #2	
CONSTRUCTION RELATED ISSUES: SEE ATTACHED	10
LIC#1271SITE EVALUATOR SIGNATURE:	watth a
SITE EVALUATOR NAME: Dennis P. Slayton TELEPI	R
LUG REVIEWDA	ATE
Comments:	The second secon
SOIL BORING LOGS ON REVERSE S	SIDE
**************************************	8
(¥	ii.
	1
	74
Property TRENCH DESIGN SHEET	х Г
Property TRENCH DESIGN SHEET Data	т -
Property TRENCH DESIGN SHEET Data Research 27405 Timber Drive P	Phone/fax: 218 765-3356
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP A	-mail: SALA@brainerd.net
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP A	itkin FIRE#
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP A: PERMIT# PIN# 01-0-075502 Finds DESIGNER NAME Dennis Pl Slayton LICENSE#	-Mail: SALA@brainerd.net itkin FIRE# DATE 8/19/05
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP A: PERMIT# PIN# 01-0-075502 Fraction DESIGNER NAME Dennis # Slayton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THA	-Mail: SALA@brainerd.net itkinFIRE# DATE 8/19/051271 ITE EVALUATION #
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP A: PERMIT# PIN# 01-0-075502 Fraction DESIGNER NAME Dennis & Slayton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WATER SOFTNER DISHWASHER	TAPPLY) HIRLPOOLHUMIDIFIER
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP A: PERMIT# PIN# 01-0-075502 Find DESIGNER NAME Dennis # Slayton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WITH WIMBER OF BEDROOMS TYPE: GARBAGE DISPOSAL:YES WELL: DEEP (50'+) SHALLOW SETBACKS: TANK DRAINFIELD	TAPPLY) HIRLPOOLHUMIDIFIER
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP AS PERMIT# PIN# 01-0-075502 Find Designer Name Dennis Figlayton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WATER OF BEDROOMS TYPE: J GARBAGE DISPOSAL:YES WELL: DEEP (50'+) SHALLOW SETBACKS: TANK DRAINFIELD FLOW	TAPPLY) HIRLPOOLHUMIDIFIER
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP A: PERMIT# PIN# 01-0-075502 Factor DESIGNER NAME Dennis P Slayton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WINDER OF BEDROOMS TYPE: GARBAGE DISPOSAL:YES WELL: DEEP (50'+) SHALLOW SETBACKS: TANK DRAINFIELD PROPOSED FLOW A. ESTIMATED 10 GPD OR MEASURED GPD	TAPPLY) HIRLPOOLHUMIDIFIER
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP A PERMIT# PIN# 01-0-075502 Food Food DESIGNER NAME Dennis P Slayton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WINDINGS OF BEDROOMS TYPE: F GARBAGE DISPOSAL:YES WELL: DEEP (50'+) SHALLOW SETBACKS: TANK TO DRAINFIELD FLOW A ESTIMATED TO GPD OR MEASURED GPD B SEPTIC TANK VOLUME 1500 GALLONS (HUPAWTMENT) C MINIMUM PUMP TANK VOLUME 1500 GALLONS	TAPPLY) HIRLPOOLHUMIDIFIER
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP A: PERMIT# PIN# 01-0-075502 Factor DESIGNER NAME Dennis P Slayton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WINDER OF BEDROOMS TYPE: GARBAGE DISPOSAL:YES WELL: DEEP (50'+) SHALLOW SETBACKS: TANK DRAINFIELD PROPOSED FLOW A. ESTIMATED 10 GPD OR MEASURED GPD	TAPPLY) HIRLPOOL HUMIDIFIER NO AIR TEST: YES NO (95) EST. FLOW IN GALLONS/DAY (GPD) NUMBER
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP AS PERMIT# DESIGNER NAME Dennis & Slayton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WINDER OF BEDROOMS TYPE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WINDER OF BEDROOMS TYPE: WELL: DEEP (50'+) SHALLOW SETBACKS: TANK TO DRAINFIELD FLOW SETTIMATED 110 GPD OR MEASURED GPD SEPTIC TANK VOLUME 1500 GALLONS MINIMUM PUMP TANK VOLUME 1500 GALLONS	TAPPLY) HIRLPOOL HUMIDIFIER NO AIR TEST: YES NO OF TYPE! TYPE!! TYPE!! TYPE!! TYPE!!
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP AS PERMIT# DESIGNER NAME Dennis F Slayton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WINDER OF BEDROOMS TYPE: J GARBAGE DISPOSAL:YES WELL: DEEP (50'+) SHALLOW SETBACKS: TANK DRAINFIELD FLOW A. ESTIMATED 170 GPD OR MEASURED GPD B. SEPTIC TANK VOLUME 1500 GALLONS C. MINIMUM PUMP TANK VOLUME 1500 GALLONS C. ALARM TYPE ELECTRICAL VISUAL AUDIOUS SOILS DEPTH TO RESTRICTING LAYER FEET	### TYPE I TYPE II TYPE II TYPE II BEDROOMS 2 300 225 180 3 450 300 218
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP APERMIT# DESIGNER NAME Dennis Playton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WINDER OF BEDROOMS TYPE: T GARBAGE DISPOSAL:YES WELL: DEEP (50'+) SHALLOW SETBACKS: TANK TORAINFIELD FLOW A ESTIMATED 110 GPD OR MEASURED GPD SEPTIC TANK VOLUME 1000 GALLONS C. MINIMUM PUMP TANK VOLUME 1000 GALLONS C. MINIMUM PUMP TANK VOLUME 1000 GALLONS C. ALARM TYPE ELECTRICAL VISUAL AVOIDE SOILS DEPTH TO RESTRICTING LAYER FEET MAXIMUM SYSTEM DEPTH (D-3) FT OR ELEV PERCOLATION RATE MPI	FIRE# DATE 8/19/05 1271 SITE EVALUATION # 1271 AT APPLY) HIRLPOOL HUMIDIFIER NO AIR TEST: YES NO D AIR TEST: YES NO EST. FLOW IN GALLONS/ DAY (GPD) NUMBER OF TYPE! TYPE!! TYPE!! TYPE!! BEDROOMS 2 300 225 180 3 450 300 218 4 600 376 256 5 750 450 294
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP AS PERMIT# DESIGNER NAME Dennis Flayton LICENSE# SIGNATURE: SIG	### TYPE I TYPE II TYPE II TYPE III BEDROOMS 2 300 225 180 3 450 300 218 4 600 376 256
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP AS PERMIT# PIN# 01-0-075502 Production of Signature: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WATER SOFTNER DISHWASHER WATER SOFTNER DISHWASHER WASHER SETBACKS: TANK TO DRAINFIELD FLOW SETSTIMATED TO GPD OR MEASURED GPD SEPTIC TANK VOLUME 1000 GALLONS MINIMUM PUMP TANK VOLUME 1000 GALLONS MINIMUM PUMP TANK VOLUME 1000 GALLONS MALARM TYPE ELECTRICAL VISUAL AVDIBUTE SOILS DEPTH TO RESTRICTING LAYER FEET MAXIMUM SYSTEM DEPTH (D-3) FT OR ELEV PERCOLATION RATE MPI SOIL SIZING FACTOR SQ FT/GPD	### SALA@brainerd.net itkin
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP APERMIT# DESIGNER NAME Dennis Playton LICENSE# SIGNATURE: WATER USE APPLIANCES (CHECK ALL THAT CLOTHES WASHER WATER SOFTNER DISHWASHER WINDER OF BEDROOMS TYPE: T GARBAGE DISPOSAL:YES WELL: DEEP (50'+) SHALLOW SETBACKS: TANK TORAINFIELD FLOW A ESTIMATED 110 GPD OR MEASURED GPD SEPTIC TANK VOLUME 1000 GALLONS C. MINIMUM PUMP TANK VOLUME 1000 GALLONS C. MINIMUM PUMP TANK VOLUME 1000 GALLONS C. ALARM TYPE ELECTRICAL VISUAL AVOIDE SOILS DEPTH TO RESTRICTING LAYER FEET MAXIMUM SYSTEM DEPTH (D-3) FT OR ELEV PERCOLATION RATE MPI	### SALA@brainerd.net itkin

VEGETATION TYPES

. IZ IN. OF KOCK: A XG X Q.S= X X V.	8 = SQ.F1
1. 18 IN. OF ROCK: A x G x 0.66= x x x x y. V. 24 IN. OF ROCK: A x G x 0.66= x x x x y.	x .66 = SO.FT
(. 24 IN. OF ROCK: A x G x 0 6 = x	G = SOFT
, , , , , , , , , , , , , , , , , , , ,	J
BED BOTTOM AREA (6 OR 12 INCHES	OE BOCK)
SEEDAGE BEDS: 1 E VA V C-11 EV	OF ROCK)
SEEPAGE BEDS: 1.5 x A x G= 1.5 xx 1. PRESSURE BEDS: A x G=x=	SQ. FT.
W. PRESSURE BEDS: A X G=XX=_	SQ. F1.
/ \	
ROCK VOLUME IN CUJET	7
1. ROCK DEPTH BELOW PIPE+O.5FTX(H,I,J	I,K,L,M) = CUFT.
ROCK VOLUME IN CUYDS \	ROCK WEIGHT
THE REPORT OF A SECOND CONTROL OF THE PROPERTY	x1.4=TONS
SYSTEM LENGTH	· In
). BOTTOM AREA (H-K) + TRENCH WI	ATH -
INEAL FT	₩n=
incac ()	
LAMALADEA	_
LAWN AREA R. SELECT TRENCH SPACING, CENTER TO B. MULTIPLY TRENCH SPACING BY LINEAL	
K. SELECT TRENCH SPACING, CENTER TO	CENTER=FT.
MULTIPLY TRENCH SPACING BY LINEAL	FEET R_X_Q=
SQ FT OF LAWN AREA	
HC ADDDOVAL	4
UG APPROVAL:	DATE:
COMMENTS:	
I STRUCTURE IN TAIN	€

- I _SQ.FT.	BEOROOMS CAPACITY GALLONS	GARBAGE USPOSAL
.FT	2 OR LESS 1000 3 OR 4 1900 5 OR 8 1500 7 OR 8 2000	1500 1500 2250
SQ. FT.	OVER9 SEE FIG C-6	3000 (x 1,5)
	SIZING FACTORS	
CU FT.	PERCRATE SOIL SOFT. PI TEXTURE GALLO	
т	THAN 0.1 COARSE SAND -	—
TONS	1	33 1,20 .87 0.80 .27 0.79
	16 TO 30 COAM 1.6 31 TO 45 SILT LOAM 2.0	7 0.60
=	46 TO 60 CLAY LOAM 2.2 > DIAN 60 CLAY	0.000

PUMP SELECTION PROCEDURE A. Determine pump capacity Gravity distribution 1. Minimum is 10 GPM 2. Maximum is 45 GPM Pressure Distribution 3. a. Select number of perforated laterals b. Select perforation spacing = c. Subtract 2 ft from rock layer length: -2 = ROCK LAYER LENGTH d. Determine the number of spaces between perfs: (length of lateral) (porf. spacing) spaces + 1 perforations per lateral f. Multiply perforations per lateral by number of laterals to get total number of perforations: (laterals) (perforations) **GPM** (Perforations) x (gpm/perfs) SELECTED PUMP CAPACITY **GPM** B. Determine head requirements: 1. Elevation difference beteween pump & point of discharge: feet 2. If pumping to a pressure distribution system, add 5 feet; for gravity add zero: ____ 3. Friction Loss a. Enter friction loss table with GPM and pipe diameter. Read friction loss in feet per 100 ft in table. 3.73 ft/100 of pipe b. Determine total pipe length from pump to discharge point. Add 25% to pipe length for fitting loss. length x 1.25 c. Calculate total friction loss by multiplying friction loss in 100 ft. of pipe by equivalent pipe length (B): Total friction loss = 875 x 3.73 /100 = 2,26 4. Total head required is the sum of the elevation difference, special head requirements and total friction loss: (2) + 4 TOTAL HEAD_ SELECT A PUMP TO DELIVER AT LEAST 2 HEAD.

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

Select minimum size of lateral

For a center manifold system the values will be ½ of above.

Perforation Discharges in GPM

Head (feet)	Perforati (inches)	on diameter
1.0a	7/32	1/4 0.74
1.5 2.0b	0.69	0.90

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

FRICTION LOSS IN PLASTIC PIPE

		100000000000000000000000000000000000000
Flow 1.5" Rate GPM	2"	3"
2.47	0.73	0.11
(3.73)	1.11	0.16
	1.55	0.23
	2.06	0.30
8.91	2.64	0.39
11.07	3.28	0.48
	2.47 3.73 5.23 6.96 8.91	2.47 0.73 3.73 1.11 5.23 1.55 6.96 2.06 8.91 2.64

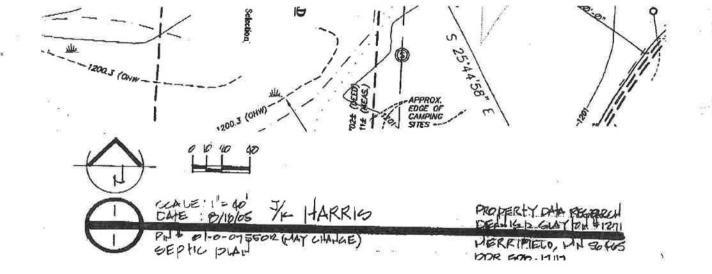
50 13.46 3.99 0.58 55 4.76 0.70 60 5.60 0.82 65 6.48 0.95 70 7.44 1.09

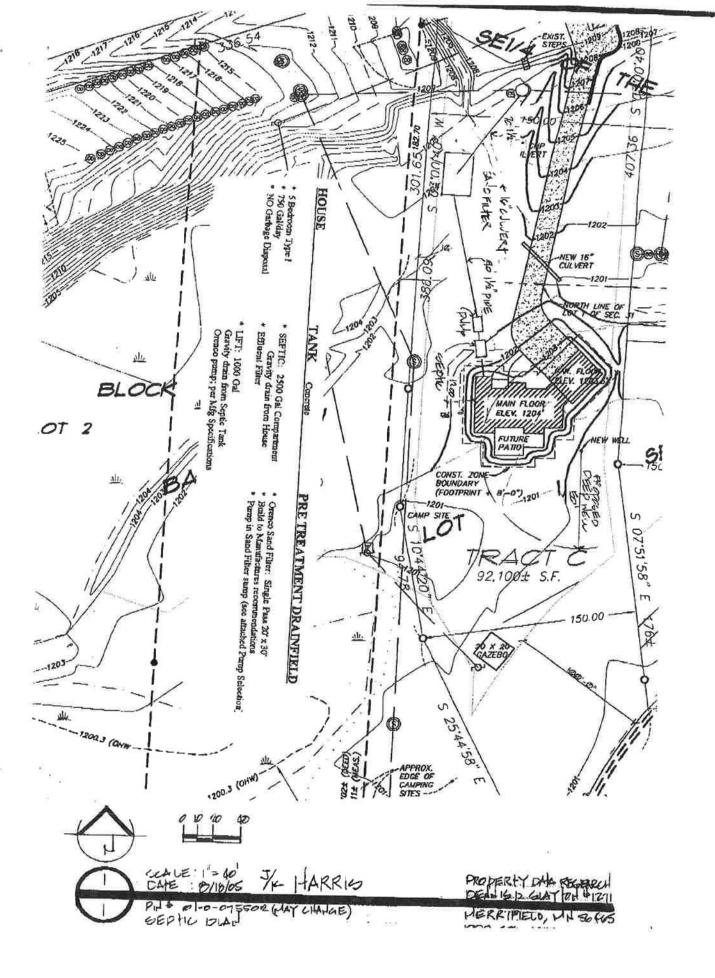
Max. No. of 1/4" perfs per lateral. (10%var)

Perforation spacing.	1	1/	2"
(feet)	1/4"	/1/2"	,
2.5 feet	14	18	28
3.0 feet	13	17	26
3.3 feet	12	16	25
4.0 fcet	11	15	23

Tre statement (me tot)	Outhor per 100 fam
	4.49
1.25	7.77
-31.5	10.58
2	17.43
2.5	24,87
3	38.4
.1	461

7.4 CAC. BRAINBACK





Dennis P. Slayton

PROPERTY DATA RESEARCH

27405 Timber Drive Merrifield, MN 56465 Phone: 218-765-3356

sala@brainerd.net Fax: 218-765-3356

FAX MEMO

DATE:

August 19, 2005

TO:

AITKIN COUNTY

PLANNING & ZONING

ATTN: RICH

FAX #:

218 927-4372

TOTAL # OF PAGES: 6

RE:

Jim & Kristin Harris (Buyer)

FROM:

Dennis P. Slayton

FROM FAX NUMBER: 218-765-3356

COMMENTS:

Please find attached Site Evaluation & Septic Design for Jim & Kristin Harris (Buyer)

Just talked with John Walsh, MN Onsite Specialists, he suggested some minor changes which have been completed.

If you have any questions, kindly contact me.

Dennis

fc: Nor Son; Chad

MN Onsite Specialists; John

PDRJ08-17117 F-1 Aitkin Cty P&Z



504-17117

27405 Timber Drive Merrifield, MN 56465

Phone/fax: 218 765-3356 e-mail: SALA@brainerd.net

FIELD EVALUATION SHEET

PROPERTY OWNER: JIM & KRISTIN HARRIS	FIELD EVALUATION DATE
PROPERTY OWNER: JIM & KRISTIN HARRIS ADDRESS: 34322 44200 Place CITY ST	(BUYER) PHONE
ADDRESS: 34322 442nd Place CITY.ST	ATE ZIP: Aitkin, MN 56431
ADDRESS: 34322 442nd Place CITY.ST LEGAL DESCRIPTION: TRACT C Edgewater	Beach (PIN # subject to change)
FIRE#LAKE/RIVERCedar	LAKE CLASS GD OHWI FT
DESCRIPTION OF SOIL TREATMENT AREA #1 AREA	AREAS
DISTURBED AREAS YES NO YES	NO REFERENCE BY DESCRIPTION
COMPACTED AREAS YESNOYES	NO.
FLOODING YES NO YES	NO
RUN ON POTENTIAL YESNO YES	_NO
SLOPE %	
DIRECTION OF SLOPE	
LANDSCAPE POSITION VEGETATION TYPES	
VEGETATION TYPES	
DEPTH TO STANDING WATER OR MOTTLED SOIL	: BORING# 1, 1A, 2,2A
BOTTOM ELEVATION-FIRST TRENCH OR BOTTO	M OF ROCK BED: #1FT., #2FT.
SOIL SIZING FACTOR: SITE # 1,	SITE #2
CONSTRUCTION RELATED ISSUES: SEE ATTACH	ED ^
LIC#1271SITE EVALUATOR SIGNA	1x M
SITE EVALUATOR NAME: Dennis P. Slayton	TELEPHONE# 218 765-3356
LUG REVIEW	DATE
Comments:	
Comments:	
199.00	E CONTRACTOR OF THE CONTRACTOR
SOIL BORING LOGS	



TRENCH DESIGN SHEET

27405 Timber Drive

DATE:

Phone/fax: 218 765-3356 e-mail: SALA@brainerd.net

Merrifield, MN 56465	e-mail: SALA@bmined not
PROPERTY OWNER J & K HARRIS (BUYER) TOWNSHIP	AND A PARK A STATE OF THE STATE
PERMIT# 1 1 -0-075502 Contract	FIRE#
Designation bennis pla stayton IICENICE	ME DAIE 0/19/03
SIGNATURE: DATE: STAN	F 12/1
The same of the sa	SITE EVALUATION #
WATER USE APPLIANCES (CHECK ALL TH	.~
OF THE WASHER WATER SHEINER DISHWASHED IN	" " " " " " " " " " " " " " " " " " " "
WELL: DEEP (50'+) SHALLOW SETBACKS: TANK OF DRAINFIEL	NO_AIR TEST: YES NO_
PREPOSED	D 174 SEWER LINE 176
FLOW	
1. ESTIMATED 10 GPD OR MEASURED GPD	
3. SEPTIC TANK VOLUME 4500 GALLONS PAULIDANTIMENT	
MINIMUM PUMP TANK VOLUME 1000 GALLONS	EST. FLOW IN GALLONS/ DAY (GPD)
11. ALARM TYPE ELECTRICAL VISUAL/AUDINGLE	NUMBER
	OF TYPE! TYPE!! TYPE!!
SOILS	8EDROOMS 2 300 225 180
). DEPTH TO RESTRICTING LAYER FEET	2 300 225 18D 3 450 300 218
MAXIMUM SYSTEM DEPTH (D-3) FT OR FLEV	4 600 375 256
PERCOLATION RATE MPI	5 750 450 294
SOIL SIZING FACTORSQ FT/GPD	6 900 525 332 7 1050 600 370
TREMOUTE	8 1200 675 408
TRENCH BOTTOM AREA 6 IN. OF ROCK OR GRAVELLESS: A x	
=X=_SQFT.	SEPTIC TANK CAPACITY
12 IN OF BOCK A 10 1 P.C.	NUMBER MINIMUM MINIMUM
18 IN. OF ROCK: A X G X 0.66= X X .66 = SQ.FT.	OF TANK CAPACITY BEDROOMS CAPACITY GARBAGE
. 24 IN. OF ROCK: A x G x 0.6 = x x .6 = SQ.FT	GALLONS DISPOSAL
	2 OR LESS 1000 1500 3 OR 4 1000 1500
BED BOTTOM AREA (6 OR 12 INCHES OF ROCK)	3 OR 4 .1000 1500 5 OR 6 1500 2250
SEEPAGE BEDS: 1.5 x A x G=1.5 x x = SQ. FT.	7 OR 6 2000 3000 OVER 9 SEE FIG C-8 (V.15)
PRESSURE BEDS: A x G= SQ. FT.	OVER 9 SEE FIG C-8 (x 1.5)
ROCK VOLUME IN CULT	SIZING FACTORS
ROCK DEPTH BELOW PIPE+O.5FT x(H,I,J,K,L,M) = CU FT.	PERCHATE SOIL SOFT. GALLONS PI TEXTURE GALLONS IDAN
/ · · · · · · · · · · · · · · · · · · ·	/DAY ISOFT
ROCK VOLUME IN CU YDS ROCK WEIGHT	THAN 0.1 COARSE SAND
. N+27=CUYDS P.O.x1.4=TONS	0.1 TO 5 SAND 083 1.20 0.1 TO 5 FINE SAND 1.67 0.60
	6 TO 15 SANDY COAM 127 0.76
SYSTEM LENGTH	16 TO 30 COAM 1.67 0.60 31 TO 45 SILT LOAM 2.00 0.50
BOTTOM AREA (H-K) + TRENCH WIDTH =	46 TO 80 CLAY LOAM 2.20 0.45
NEAL FT	> THAN 60 CLAY (0.24)

E31.1	FLOW IN GA	LLONS/ DAY	(GPD)
NUMBER	TYPEI	TYPE II	TYPE
BEDROOMS	1		TTE
2	300	225	180
3	450	300	218
4	600	375	256
5	760	450	294
6	900	525	332
7	1050	600	370
	1200	675	408

NUMBER	MINIMUM	MINIMUM
OF	TANK	CAPACITY
BEDROOMS	CAPACITY	GARBAGE
	GALLONS	DISPOSAL
2 OR LESS	1000	1500
30B4	1000	1500
(50R 6)	1500	2250
7 OR 8	2000	3000
OVER 9 SE	E FIG C-8	(x 1.5)

PERCRATE		SQFT.	GALLONS /
PI	TEXTURE	GALLON	S /DAX
		/DAY	LSQLT.
< THAN 0,1	COARSESA	VD -	_
0.1 TO 5	SAND	083	1.20
0.1 TO 5	FINE SAN	1.67	0.60
6 TO 15	SANDYCO	W 127	0.79
16 TO 30	COAM	1.67	0.60
31 TO 45	SILT LOAM	2.00	0.50
48 TO 60	CLAY LOAM	2,20	0.45
> THAN 60	CLAY		(0.24)

DMMENITS-

JG APPROVAL:

LAWN AREA

SELECT TRENCH SPACING, CENTER TO CENTER MULTIPLY TRENCH SPACING BY LINEAL FEET R _ SQ FT OF LAWN AREA

· PUMP SELECTION PROCEDURE A. Determine pump capacity Gravity distribution 1. Minimum is 10 GPM Maximum is 45 GPM Pressure Distribution 3. a. Select number of perforated laterals_ b. Select perforation spacing = c. Subtract 2 ft from rock layer length: -2 =ROCK LAYER LENGTH d. Determine the number of spaces between perfs: (length of lateral) (porf. spacing) spaces + 1 perforations per lateral f. Multiply perforations per lateral by number of laterals to get total number of perforations: (laterals) (perforations) **GPM** (Perforations) x (gpm/perfs) SELECTED PUMP CAPACITY **GPM** B. Determine head requirements: 1. Elevation difference beteween pump & point of discharge: 2. If pumping to a pressure distribution system, add 5 feet; for gravity add zero: _____ feet 3. Friction Loss Enter friction loss table with GPM and pipe diameter. Read friction loss in feet per 100 ft in table. 3.73 ft/100 of pipe b. Determine total pipe length from pump to discharge point. Add 25% to pipe length for fitting loss. c. Calculate total friction loss by multiplying friction loss in 100 ft. of pipe by equivalent pipe length (B): Total friction loss = 871 x 3.73/100 = 2,26 4. Total head required is the sum of the elevation difference, special head requirements and total friction loss:

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

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

Select minimum size of lateral For a center manifold system the values will be 1/2 of above.

Perforation Discharges in GPM

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

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

FRICTION LOSS IN PLASTIC PIPE

Flow	1.5"	2"	3"
Rate		A3-37 (F	
GPM			

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

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

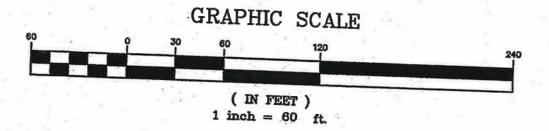
Perforation	1	1/	2"
spacing. (feet)	1/4"	/1/2"	*
2.5 feet	X	\	
	14	18	28
3.0 feet	13	17	26
3.3 feet	12	16	25
4.0 feet	11	15	23
5.0 feet	10	14	22

Pice shomer (-would	Catheria per 100 fast
	4.49
1.25	7.77
->1.5	10.58
2	17.43
2.5	24.87

7.4 CAC BRAINBACK

CONSTRUCTION RELATED ISSUES

- * TOP OF SAND FILTER TO BE AT 1204.00
- VERIFY COMMON LIFT TANK FOR WATERTIGHTNESS
- * VERIFY COMMON LIFT TANK ELEVATION
- * LOCATION OF SAND FILTER MAY SHIFT DEPENDING UPON WATER TABLE IN PROPOSED LOCATION
- * INSTALLATION & ALL MATERIALS SHALL CONFORM TO ORENCO MANFACTURES SPECIFACTIONS
- * MN ONSITE SPECALISTS SHALL APPROVE ALL INSTALLATION LOCATIONS AND MATERIALS PRIOR TO USE/INSTALLATION PHONE: 218 729-8805
- * ALL TANKS SHALL BE WATERTIGHT AND HAVE STATIC WATER TEST
- * USE SIM-TEC EFFLUENT FILTER STF-110
- * INSTALL COLD WEATHER CERAMIC HEATER WITH THERMO STATIC CONTROLS (REFER TO MIN ONSITE SPECALISTS)
- * OTHER SPECIFICATIONS MAY APPLY



BEARINGS BASED ON ASSUMED DATUM TOTAL AREA: 12.22± ACRES

- Denotes iron monument found in place
- Denotes iron pipe set and marked R.L.S. No. 17253

BENCH MARKS:

BM#1 - 60D SPIKE IN THE SOUTHEAST SIDE OF A 10 INCH POPLAR

BM#2 - 60D SPIKE IN THE SOUTHWEST SIDE OF A LIGHT POLE ON THE WEST SIDE OF THE HARBOR ELEV.=1202.84 FT.

BM#3 - 60D SPIKE IN THE EAST SIDE OF A TRANSFORMER POLE 85± FEET SOUTH OF 350TH STREET ELEV.=1208.31 FT.

LEGAL DESCRIPTION FOR TRACT A:

That part of Outlot A, EDGEWATER BAY, Aitkin County, Minnesota according to the record plat thereof, and that pa Quarter of the Southeast Quarter of Section 30 and that part of Government Lot 1, Section 31 all in Township 47 West, said Aitkin County, Minnesota that lies easterly of the following described line: Commencing at the northeast corner of said Outlot A; thence South 70 degrees 58 minutes 15 seconds West, ass feet along the north line of said Outlot A to the point of beginning of the line to be described; thence South 03

40 seconds West 395 feet, more or less, to the shoreline of Cedar Lake and said line there terminating. Subject Subject to a permanent easement for ingress and egress purposes over and across that part thereof described as Beginning at the northeast corner of said Outlot A; thence South 70 degrees 58 minutes 15 seconds West, assume along the north line of said Outlot A; thence South 03 degrees 00 minutes 40 seconds West 420.69 feet; thence minutes 20 seconds East 33.00 feet to the east line of said Government lot 1 Section 31. 11.

DSPPRCL1

Display Parcel Description

8/18/05 14:12:07

Notes: No

Parcel number/Tax year: 01-0-075502

Owner(s): 93246

SAUERER, ROBERT G & TAMMY L

45049 350TH ST ATTKIN MN 56431

Taxpayer: 93246 FALCO: 1 F.O.

SAUERER, ROBERT G & TAMMY L

45049 350TH ST AITKIN MN 56431

Alternate taxpayer:

2006 Reference parcel: 00-2-010000 Parcel type : RE Hold tax stmt:

Com district: 1 Misc1/2:

Escrow agent: Mortgage hld:

UTA: Twp/City School AMBU **** **** **** 00 001 0001 00 00 00

TIF district: 000 000

Lake#/name : 1-0209 CEDAR LAKE (AITKIN/F

Property adr: 45049 350TH ST

AITKIN MN

Emergency# : 56431 -

Twp/City Plt: AITKIN TWP

Sec/twp/rge: 31 47.0 27 Acres: 4.31

Plat:

Lot/Block . Description: 4.31 ACS OF GOVT LOT 1 IN DOC 290122

Press Enter to continue or enter new parcel/tax year. 01-0-075502 F1=Full desc F2=Trans hist F3=Exit F6=Prcl hist F7=Backward F9=Escrow hist F12=Cancel F14=Phy Addr F17=Dsply Note

restrictions of record, if any.

That part of Outlot A, EDGEWATER BAY, Aitkin County, Minnesota according to the record plat thereof, and that part of the Southeast Quarter of the Southeast Quarter of Section 30 and that part of Government Lot 1, Section 31 all in Township 47 North, Range 27

Commencing at the northeast corner of said Outlot A; thence South 70 degrees 58 minutes 15 seconds West, assumed bearing, 323.66 feet along the north line of said Outlot A; thence South 03 degrees 00 minutes 40 seconds West 407.36 feet to the point of beginning of the tract to be described; thence return North 03 degrees 00 minutes 40 seconds East 407.36 feet to said north line of Outlot A; thence South 70 degrees 58 minutes 15 seconds West 161.83 feet along said north line of Outlot A; thence South 03 degrees 00 minutes 40 seconds West 386.09 feet; thence South 10 degrees 44 minutes 20 seconds East 94.78 feet; thence South 25 degrees 44 minutes 58 seconds East 202 feet, more or less, to the shoreline of Cedar Lake; thence northeasterly along said shoreline to its intersection with the line which bears South 07 degrees 51 minutes 58 seconds East from the point of beginning; thence North 07 degrees 51 minutes 58 seconds West 176 feet, more or less, to the point of beginning. Subject to easements, reservations and

TTX/RY NO 7557] [OI. 01 £6.01 (FW) 2006\71\80

AITKIN COUNTY SOIL AND WATER CONSERVATION DISTRICT SHORELAND SITE REVIEW AITKIN COUNTY SWCD 130 SOUTHGATE DRIVE AITKIN, MN 56431 (218) 927-6565

SHORELAND SITE REVIEW

SITE REVIEW NUMBER: S05-54

SITE REVIEW DATE: August 4, 2005

LANDOWNER'S NAME: Nor-Son Construction at Cedar Lake (Harris property)

ADDRESS: c/o Amy Falk 7900 Hastings Road, Baxter, MN 56425

PHONE: (218) 828-1722

LOCATION OF WORK SITE: SEC: 31 TWSP: 47 RANGE: 27

LOT #, PLAT NAME, 4 SECTION, ETC. LAKE OR RIVER AFFECTED: Cedar Lake

WORK TO BE PERFORMED & SITE EVALUATION

The construction company has submitted plans for a home, garage and driveway to be constructed at the former Edgewater Beach Resort on Cedar Lake. (plans on file at SWCD). The plans show a fill estimate of 1200 cubic yards for the building site to meet floodplain requirements and for the structure footprint. Additional fill of 500 cubic yards is planned for the remainder of the property. Cuts and fills of 200 cubic yards or less are encouraged. These quantities are for earthmoving activities outside an 8' perimeter of the building. Given existing site characteristics, the designs show a reasonable effort to minimize grading and filling.

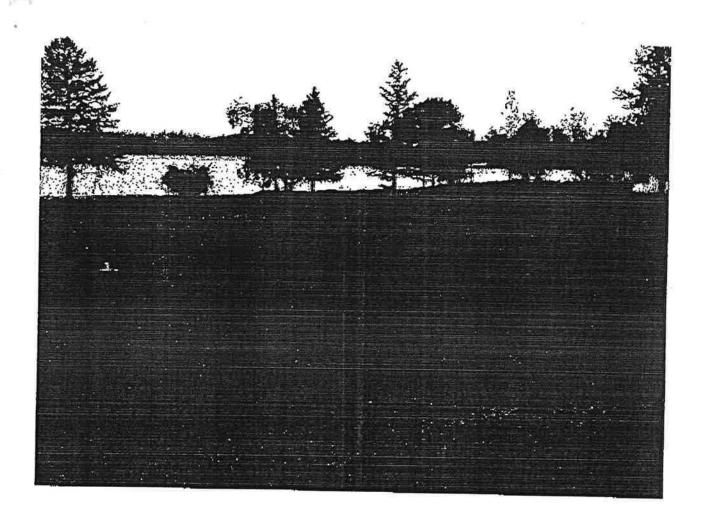
Erosion and runoff must be addressed during and after construction. Temporary silt fence must be installed where needed to control erosion. Silt fence must remain in place until vegetative cover is established that is adequate to control erosion. All disturbed soil areas must be stabilized with seed and mulch or sod immediately after this project is completed.

Questions regarding this site review should be directed to Aitkin County SWCD at (218) 927-6565.

Date: August 15, 2005 SWCD AUTHORIZED SIGNATURE:

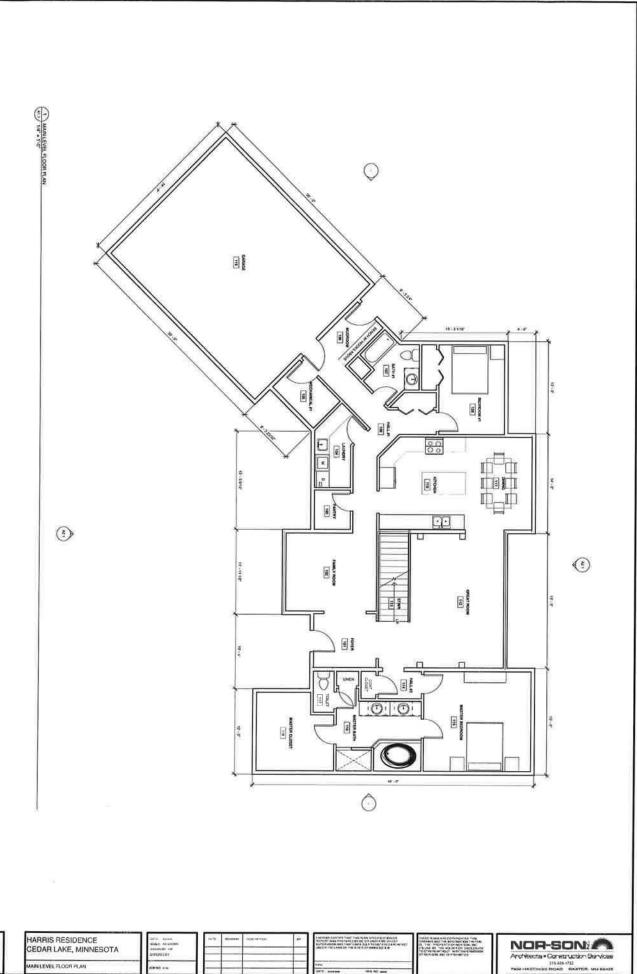
NOTES & PHOTOS:

CALL ATTKIN COUNTY PLANNING & ZONING (927-7342) FOR SHORELAND ALTERATION or other necessary PERMITS. DNR, ARMY CORPS OF ENGINEERS, MPCA, MISSISSIPPI HEADWATERS BOARD OR OTHER APPROVALS MAY BE REQUIRED. IT IS THE LANDOWNER'S RESPONSIBILITY TO MEET ALL APPLICABLE SETBACKS AND RESTRICTIONS. THIS SITE REVIEW IS VALID FOR ONE YEAR FROM THE DATE OF THE SITE REVIEW.

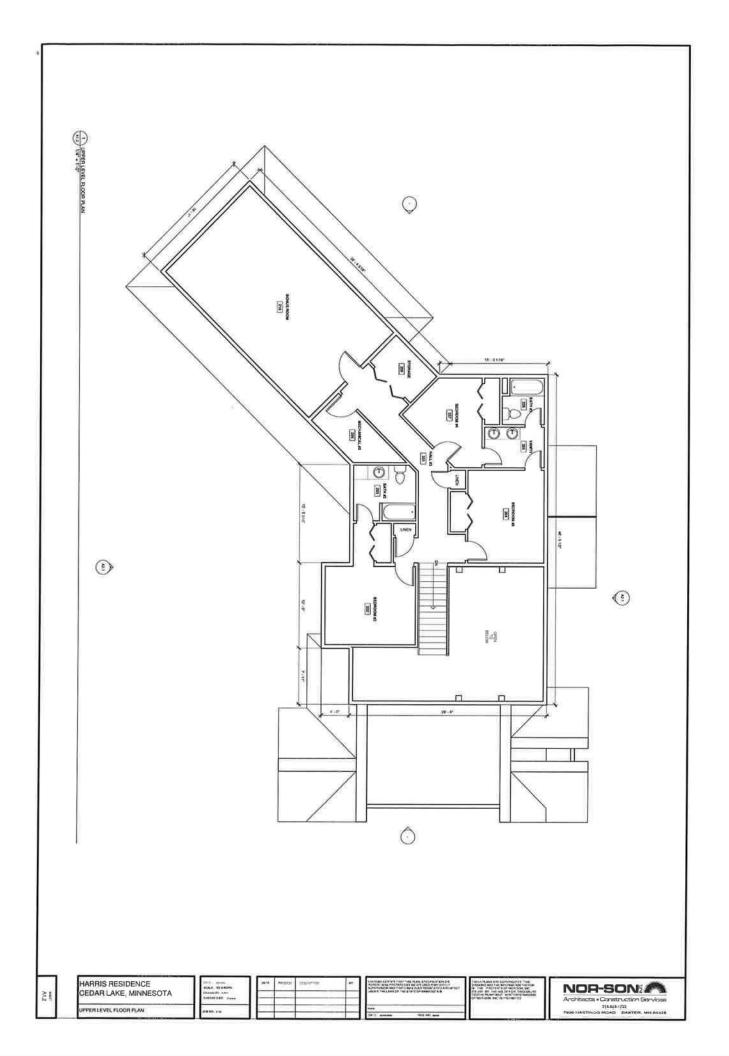


PROJECT APPEARS TO COMPLY: PROJECT DOES NOT COMPLY: COMMENTS:

SIGNATURE:



A1.5







A. M. & Associates, Inc.

RR 2, Box 2468 Palisade, MN 56469 (218) 768-4430 Michael D. O'Keeffe Annette M. O'Keeffe SEPTIC SYSTEMS DESIGNS & INSPECTIONS MPCA #1357

FIRST YEAR

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

It is hereby	agreed this	s 24 th day of August	, 20 <u>05</u>	by and between A.M. & Associates, Inc. and
Property	Owner(s):	SAUERER ROBERT SUETZER	Parcel Code:	(which Parcel #s pertain to just this dwelling?) 01-1-167800, 01-0-074901, 01-1-167901 01-0-075502
Home Ad	dress:	45049 350 TH STREET AITKIN, MN 56431	Site Address:	SAME 6/-0-075502 EDGEWATER RESORT, CEDAR LAKE, AITKIN
Phone	(home)		Township	AITKIN
	(work) (cell) (fax)	(218) 820-7019	Phone:	
	DESC	RIPTION OF INDIVIDUA	L SEWAGE	
(siz	ze) <u>2013</u>	OOSI SAND FILTER DI	ISPERSING I	NTO 17 French (drainfield)
(descri				ize Tank(s) to Sandfilter to Drainfield)
than	dis		a cent sxisting	Diff tank to
Installat	ion 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 shall remain in force for a period of one year, beginning on date of installation and ending December 31st of the following year.

FEES

\$200.00 Due at time of signing Contract Maintenance, Monitoring & Inspection Service Contract

(approx) NA Sample Analysis Fees & Supplies N/A *Time & Mileage to Deliver Samples for Analysis

Due at time of sampling 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.

Pro	pperty Owner(s): Squere CR	0 H/1 H /2	2/./
Name: _	ROBERT SAUETZER (please print)	Hully Muller	Date: 8/24/05
Spouse: _	TAMMY SAUETZER (please print)	Many Sheeman (signature)	Date: 8/24/05
A.M. & A	Associates, Inc.:	- 11 of Mark	
Name:	Michael D. O'Keeffe	Julian (signature)	Date: 8-24-05

(please print)

AITKIN COUNTY ENVIRONMENTAL SERVICES

APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

	School SAU		PARCEL NUM	MBER <u>0</u> /-	0-0755
ADDRESS 4	5049 -	3504	Street		lá.
LEGAL DESCR	RIPTION			0	
TELEPHONE #	218 820 70	2/9	GIS LOCATIO	NN	•
(Attach ISTS construction , managemen	ON OF WASTEY site evaluation n, operation, mo nt; anticipated s	n and design; onitoring, ser ystem life, hy	estimated cos vice, compone draulic and or	t of system nt replacen ganic loadi	nent, and ng rates)
gravity	to A	Central	lift tand trackes	and	pruper
-1111	1 picso	REILE	THURES	OT	existing
		(15)			
B. MONITORIN					
	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY/	SAMPLE TYPE	REPORTING FREQUENCY
FLOW	750	SIFI	Mandle	14	
5-DAY BOD	150	3171	1 worth	Vecor	d Annu
TOTAL NITROGEN	i. 97	2 19			
TOTAL PHOSPHORUS		_/_	1000	-	20
TSS		71,0	reci	-/	24
FATS,OILS AND GREASE	L	thu	049 \$	-91t	
ECAL					
COLIFORM		1 0	Me	dia	
	3	Vert	Me	dia	eunver
COLIFORM SEPARATION	3	Vert	Me	dia	eunve

AHMA ASSOCIATES will perform the monitoring of this septic system.

C. MAINTENANCE PLANS

PARAMETER	i .	
7 AI CAMILTER	LOCATION	FREQUENCY
How	*	
Solid 5	a a	
Panil		
disperal	reg)	
dispersal	Sur)	
D. MITIGATION PLAN:		
- L 17	mail he il	<i></i>
the siri s	hould be the	GST resort 1f
JU AILKIN COUNTY harmlage &	ture as the designer, that all da to the best of my knowledge. rom loses, damages, costs and se of the information submitted	agree to indemnify and
Mula Sollayje	1/30 License Number	8-24-05 Date
chiel D. O'Keepe	19465-4418 GAC	5 h

SUPPLEMENTAL DATA FOR LAND USE PERMITS

Page 1 of 2

*** COMPLETE BOTH SIDES ***

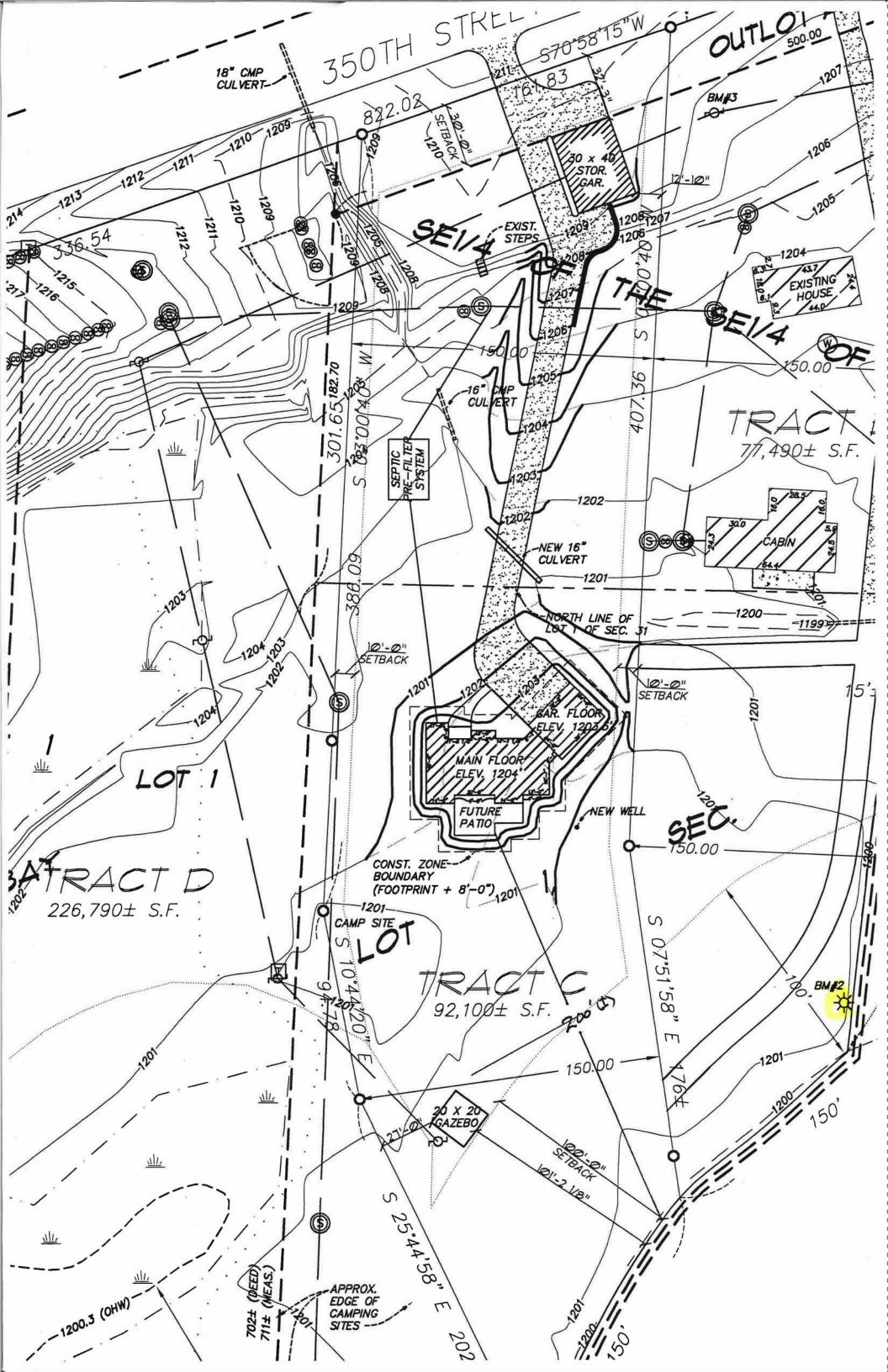
	COMPLETE BOTH SIDES	
A.	PLANNING CHECKLIST (required for all permits):	00
	Are you aware of setback requirements and will your project meet them? Note: Setback distances are taken from	??
	Are you aware of impervious surface requirements and will your project meet them? Note: In the Shoreland District, Buildings can not exceed 15% of total lot area and lot coverage 25%	
4.	septic systems, decks, driveways, etc? Is there a steep slope or bluff on or near the site?	
5.	Are you constructing a walkout basement in the shoreland district of a lake, river, or stream (If yes, complete Section D)	
6.	Are there any lowlands or wetlands on or near the site project?	(4)
	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)]
	Will the project involve grading, filling or landscaping within the shoreland district of a lake or river? (If yes, complete Section D)	
If it i	Is your property in a floodplain?	
В.	PRE-EVALUATION INSPECTION REQUEST (required for all permit	ts):
	ning and staking the property lines, road right-of-ways, septic sites, and wells are the responsibility of the erty owner. In some cases, a registered survey may be required to verify setbacks before granting a permit	t.
COL	PROPOSED DEVELOPMENT REQUESTS MUST BE CLEARLY STAKED AT ALL FOUR RNERS IF APPLICABLE, IF STAKES ARE NOT PRESENT OR VISIBLE IT MAY RESULT IN DITIONAL FEES OR A DELAY IN THE PERMIT PROCESS.	
infor	undersigned hereby makes application for a pre-evaluation permit inspection, agreeing that all setback mation and delineation of property lines, well location, road setbacks, and development corners have been erly marked in accordance with the standards and requirements of the Aitkin County Ordinances.	n
Tele	phone Number between the hours of 8:00 A.M. and 4:00 P.M. 218-851-0184	
Land	downer: TSOB SAVERER Date: 8/17/05	
Add	ress: 45049 350 57	
	ATTKIN MN 56431	
If	HOWNER SIGNATURE: X How	

WE LOOK FORWARD TO WORKING WITH YOU

Page 2 of 2 *** COMPLETE BOTH SIDES ***

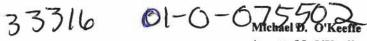
C. Directions to your Property From Aitkin! (required for all permits): From a major intersection:
HUMY 210 WEST FROM ATTHE
South on 350th ST. TO SITE
TRACT "C" OF EDGEWATER BAY
D. NATURAL LANDSCAPE PROTECTION PLAN:
Complete this section only if you were directed to in Section A OR if you are working near a lake or stream. 1. Description of proposed construction: Construct A Way 2706 SF House
1200 SF SHED, 400 SP GARERS, ON SINE SEPTIC SYNTEN
2. Existing vegetative cover (e.g., forested, grass, shrub, lawn, etc.)?
3. Setback from the Ordinary High Water Level (OHW) for proposed construction?
4. How much excavation or fill work is being done <u>inside</u> the Shore Impact Zone (SIZ)? None (If excavation or fill work greater than 10 cu yds is being done, supply copy of Site review from SWCD) (The SIZ: Mississippi River & NE Lakes =75 feet, RD & GD lakes =50 feet, other waters-see ordinance)
5. How much excavation or fill work is being done outside the Shore Impact Zone (SIZ)? CY (If excavation or fill work greater than 50 cu yds is being done, supply copy of Site review from SWCD)
6. What percent slope of the land currently exists on the construction site?
7. How much clearing of trees and shrubs will be done inside the Shore Impact Zone (SIZ)? None (If vegetation will be cleared in the SIZ, supply copy of Site review from SWCD*)
8. How will erosion be controlled during construction? SILT FENCE BETWEEN
Consequence site + SIZ
9. What will be done after construction to control erosion? Apply GRASS SEES 1
MULCH ON DISTURBED AREAS - SPRING 2006
I have read the above and I understand the Natural Landscape Protection Plan as prepared. I hereby agree to implement this plan as part of the Land Use Permit.
X Ch lune 8/12/05
Landowner Signature Date Zoning Official Da
AGENT

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



A. M. & Associates, Inc.

RR 2, Box 2468 Palisade, MN 56469 (218) 768-4430



Annette M. O'Keeffe

SEPTIC SYSTEMS **DESIGNS & INSPECTIONS** MPCA #1357

FIRST YEAR

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

Property Owner(s)	ROBERT	SAUERER	Parcel Code:	01-0-075502 (TRACT C)
Home Address:	45049 350 ^{TI} AITKIN, M		Site Address:	SAME EDGEWATER RESORT, CEDAR LAKE, AITKIN
Phone (hom			Township	AITKIN
(wor (cell (fax)	(218) 820-7	7019	Phone:	And the second of the second o
DES	CRIPTION C	OF INDIVIDUA	AL SEWAGE 1	TREATMENT SYSTEM
20's 5 Bedroom Ho Sand Filter tha	30' OSI SAN use will have it t will gravity in	D FILTER DIS own 1600 Gallo nto a central Lif	SPERSING INT on Combination it Tank, to be di	TREATMENT SYSTEM TO EXISTING 17 TRENCHES Tank and individual 20' x 30' OSI spersed into existing Trenches. Type 2 = 450 gpd for Drainfield)

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 failurepreventative 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 Speciaties 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)

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

LIFT PUMPING STATION (Annually)

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

EFFLUENT FILTERS/PUMP SCREENS (Annually)

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

SEPTIC TANK (Annually)

- X 1. Measure sludge and scum level
- X 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)
- X 3. Check general appearance

PRETREATMENT DEVICE (Annually)

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

DISPERSAL FIELD (Annually)

- X 1. Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)
- X 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
- X 5. Check for required separation

SAMPLING (As Deemed Necessary)

Aquire 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 aquired by A.M. & Associates, Inc. along with sampling analysis fees and delivery
charges is the responsibility of the Property Owner).

MISCELLANEOUS (Annually)

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:

- 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.
- 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.
- Must aquire 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.
- 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 on date of installation and ending December 31st of the following year.

FEES

(approx)

Maintenance, Monitoring & Inspection Service Contract \$200.00 Due at time of signing Contract

Sample Analysis Fees & Supplies
*Time & Mileage to Deliver Samples for Analysis

N/A

Due at time of sampling

NA

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):

Saverer

Name:

ROBERT SAUETZER

(please print)

Savenar

Spouse: TA

TAMMY SAUETZER

(please print)

Date:

Date: 8/24/0

A.M. & Associates, Inc.:

Name:

Michael D. O'Keeffe

(please print)

(signature)

(signature)

Date: 8-11-05

2

Mukal

AITKIN COUNTY ENVIRONMENTAL SERVICES

APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

PERMITTEE (Edgewater Rese	ort) Robert S	Sauerer		PARCEL	NUMBER	01-0-07	5502	
ADDRESS 45049 350th Street		CITY	Aitkin		STATE	MN	ZIP	56469
SEC 31 TWP 47	RGE 25	Bi	LOCK	LOT	C	ACRES		
TELEPHONE (218) 820-7019	(cell)	G	IS LOCATION					
SITE LOCATION Same (Ced	ar Lake)							
A. DESCRIPTION OF WA 20'x 30' OSI S. 5 Bedroom House will hav Sand Filter that will gravi (5 Bedrooms = 75)	AND FILTER re it own 1600 (ty into a centra	DISPER Gallon C	RSING INTO Combination T ank, to be disp	EXISTIN	G 17 TRE individual o existing	NCHES 20' x 30' Trenches	osi	
Number of Bedrooms 5								
Flow = 750/45	60 gpd							
Hydraulic Loading Rate = 1.0 - 1. Organic Loading Rate = 0.0001:	2 gpd/ft25 BOD/sqft							
Flow x BOD(mg/1) x 8.35 ÷ 1,000, (450 x 15 x 8.35 ÷ 1,000,								
System Loading = organic loading (.056 \div 360 = 0.00015 BG		sqft						
Anticipated System Life = 20 - 3	0 years							
Estimated Cost of: System Construction = Operation = Monitoring, Testing & Service =	\$10,000.00 (±) \$10.00 per mor \$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	750 gpd	Water Meter	Monthly	Record on Log Sheet	At time of Operating Permit Renewal
5-Day BOD	15/220 mg/l	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Total Nitrogen					
Total Phosphorus					
TSS	15/65 mg/l	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Fats, Oils, Grease (FOG)	30 mg/l	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Fecal Coliform	Less than 1,000 cfu / 100 ml	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Separation Distance	2 Foot Credit on Soil Media	Trenches			

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	
Overall visual of entire system for landscaping, drainage and cover material	Sand Filter & Tanks	Annually	

D. MONITORING AND REPORTING REQUIREMENTS:

 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.
- Monitoring plans may be modified as necessary and reapproved by Aitkin County Environmental Services.
- Sampling and laboratory testing procedures shall be performed in accordance with Standard Methods and the testing shall be performed by a Minnesota Department of Health approved laboratory.

E. MITIGATION PLAN:

- 1. If weeping problems should occur; lower dosing rate, lower water usage.
- 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 REQUIREMENT	TS:		
	ES, a licensed ISTS firm, has agreed to	11 15 15 15 15 15 15 15 15 15 15 15 15 1	-
responsibilities, as outlined w	vithin this Operating Permit Application,	for a period of 1	Year(s).
I hereby certify with my signature and correct to the best of my know	e as the designer, that all data for the oper wledge.	rating permit appl	ication is true
MICHAEL O'KEEFFE	Meda DO Bygo	1357	08/24/2005
(Name)	(Signature)	(License #)	(Date)
A.M. & ASSOCIATES, INC.	29465 442 nd LANE PALISADE, M	N 56469 (2	18) 768-4430
(Company Name)	(Address)		elephone)



333/6





New-01-0-07490Z

INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM

AITKIN COUNT	Y, MINNESOIA
	pection 1-25-06 Permit Number 333/6
owner Jim Marris (Formerly B	Parcel Number 01-0-0755
Project Address	Installer Mark Ritter
City Zip Code	New Repair
	DIST. or DROP BOX & TYPE
SETBACKS: Buildings to tank(s) 47'	TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD: Trench depth
Buildings to drainfield	Trench length
Well(s) 50' or 100'	Trench bottom width
Lake/Creek/Wetland	Trench bottom level
SEPTIC TANKS:	Trench spacing
Liquid capacity WEISCT	Drainfield rock below pipe
Manufacturer & type 1600 gal combo donard	Size of gravelless pipe
Type of baffle PASTIC	Depth of backfill
Inspection pipes 3 6 4"	Absorption area: square feet
Manholes access 30 Z11//	lineal feet
No. & height of risers <u>Q@ Z4"</u>	
MOUNDS:	PUMPS:
Percent slope	Tank capacity 1000
Upslope dike width	Tank manufacturer & type WIESCY, concrete
Downslope dike width	No. & height of risers 1@24"
Sideslope dike width	Pump manufacturer & model# Zoller 98 Horsepower & GPM / 2
Drainfield rock below pipe	
Depth of sand below rock	Feet of head 8 Cycles per day
Perforation size & spacing	
Pipe size & spacing	Gallons per cycle
Dimensions of rock bed Dimensions of sand base	Type of electrical hookup
Final cover	Type & location of alarm Time do god
	Cycle counter (commercial)
Inspector's Comments Tank cover on Byer the divide, Sides and Co	hackward, insp pipes not we a insulated with food. Ristanks only
	Bob Saurer
Corrective Action Required	700
Inspector's Signature with the Rich C.	Installer's Signature
White-County Yellow-	Applicant Pink-Installer

INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM AITKIN COUNTY, MINNESOTA Township Atkin Date of Inspection 6/21/06 Permit Number 333/6

Owner Bob Saverer Tim Horr Farcel Number 01-0-075503

Project Address 4:31 Ac. of Gar 10T | In Doc 290122 Installer Mark Ritter Zip Code _____ New ____ Repair _ City DIST. or DROP BOX & TYPE SETBACKS: Buildings to tank(s) 200 TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD: Buildings to drainfield /oo' Trench depth Existing Trenches

Trench length 55' X 17 Well(s) 50' or 100'____ Trench bottom width 3' Trench bottom level χe_{ς} SEPTIC TANKS: Liquid capacity 1860 Combo

Manufacturer & type Sac pre-cast

Type of baffle plas Tic Trench spacing 61 Drainfield rock below pipe _____ Size of gravelless pipe All Trenches home

Depth of backfill 4" W/ priess ure hines Absorption area: square feet Manholes access lineal feet No. & height of risers ___/∂ PUMPS: Tank capacity 1960 + 1500 **MOUNDS:** Sand filters Percent slope Tank manufacturer & type Jac pre-cast Upslope dike width _____ No. & height of risers 3~ 2 //" Downslope dike width _____ Pump manufacturer & model # 2 - 1 horse +2-1/2 Zollers Sideslope dike width _____ Horsepower & GPM 2 - 1 horse 2 - 1/2 horse Drainfield rock below pipe _____ Feet of head # 28 Depth of sand below rock __ Cycles per day Time Dosen Perforation size & spacing 14 Gallons per cycle _____ Pipe size & spacing 2" 55' Lines Size of discharge line _______ Dimensions of rock bed____ Type of electrical hookup 1955

Type & location of alarm Dimensions of sand base Final cover Cycle counter (commercial) _____ This is a repair For 9 Bed Or Houses DRAWING OF SYSTEM (Include Soils) 1960 2011ers 2011ers 1500 2 Pung 2011ers Touch w/contralpanel Zony of Zone I same silter Inspector's Comments Existing Trenkes W/1/2 pressure propes installed in each 4" Existing pipes Corrective Action Required

Installer's Signature

Pink-Installer

Yellow-Applicant

Inspector's Signature ____

White-County

AITKIN COUNTY CERTIFICATE OF COMPLIANCE/NOTICE OF NONCOMPLIANCE

This certificate of compliance/notice of noncom	
day of	certify compliance\noncompliance with
Aitkin County's Individual Sewage Treatment S	
1. The premises covered by this certificate are	legally described as:
4.3 Ac. of Gov. 10t 1 In Dac 290	
Section 31 Township 47 Range	27 Lake <u>Cedar</u>
PERMIT NO. 333/6 Owner Name Address 45049 350 ST. AirKi	Jon Harris
Address 45049 350 ST. Aitki	1, Mn 56431
Installar Nama M. P. K. Th	•
Type of System Inspected Sand filter ther to 1960	W/1860 pumped 10 1500
The certificate of compliance/notice of noncomp	pliance was based on, No <u>/</u> of the
following:	
♠ Inspection of the installation or construction	
above referenced permit and application	design.
Review of as-built plans submitted in a	
Of Aitkin County's Individual Sewage Tre	atment System and Wastewater
Ordinance No. 1.	
If the above permitted individual sewage treatment	•
Aitkin County's Individual Sewage Treatment Sy	
1, then the following shall serve as a Notice of \	
 Statement of the findings of fact through 	Jh inspections or
investigations:	
	
2) List of specific violations of Ordinance:	
Requirements for correction or remova	of violations:
A) T'	-
Time schedule for compliance:	
	dette en 1911 en 1912 en 1915
Failure to correct or remove the above vid	
turned over to the Aitkin County Attorney'	_
may result in revocation of licenses or reg	jistrations, fine's and/or
imprisonment.	
1591	
INSPECTOR SIGNATURE for tulur	
//	
<i>V</i>	
c:\wp61\terry.dir\certform.doc	

INDIVIOUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM

AITKIN COUNT	
Township Ait Kin Date of Inspection 6/	21/06 Permit Number 3 33/6
Owner (Bab Saverer) Jim Harr	Parcel Number 01-0-075503
Project Address 4:31 Ac. of Gar lot In	Doc 29012 installer Mark Ritter
City Zip Code	New Repair
SETBACKS:	DIST. or DROP BOX & TYPE
Buildings to tank(s) 20	
Buildings to drainfield /ou '	TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:
A CONTRACT OF THE CONTRACT OF	Trench depth Existing trenches
Well(s) 50' or 100'	Trench length 55 1 X 17
Lake/Creek/Wetland/00	Trench bottom width
	Trench bottom level X&S
Liquid capacity 1860 Comb a	Trench spacing
	Drainfield rock below pipe
Manufacturer & type Jac pro-cest Type of baffle plastic	Size of gravelless pipe All Trenches Home
1 1 1 61 1 1 4	Depth of backfill 61" W/ 2" priessure lines
Inspection pipes 1-9 1-6	Absorption area: square feet
	lineal feet
No. & height of risers / /	illiedi leet
	PUMPS:
MOUNDS: San O Cit	Tank capacity 1960 + 1500
Percent slope Sand Filters	Tank capacity 7100 42 .5
Upslope dike width	Tank manufacturer & type $\sqrt{3}$ $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$ No. & height of risers $\sqrt{2}$ $\sqrt{2}$ $\sqrt{2}$
Downslope dike width	Pump manufacturer & model # 2 - 1 horse +2-72 Zollan
Sideslope dike width	Horsepower & GPM 2 - 1 horse 2 - 1/2 horse
Drainfield rock below pipe	
Depth of sand below rock	Feet of head 197 38
Perforation size & spacing 1/4	Cycles per day Time Dosel
Pipe size & spacing 2" 55' Lines	Gallons per cycle
Dimensions of rock bed	Size of discharge line
Dimensions of sand base	Type of electrical hookup
Final cover	Type & location of alarm
PLINOVARIOTE PROPERTY AND THE PROPERTY OF THE	Cycle counter (commercial)
DRAWING OF SYSTEM (Include Soils)	This is a nepair for 9 Bed
25	@2 Hauses
5 February	y- Hassis
at g	
·	
1.1.20111111	Pungo 2011ers 1500 & Pungo Pollers
	Punt Zollers 1500 & Punt Zollers
1///	17 tys m. 2019
	16"car tonk w/contralpanel
	1
12 my Zona Control	16°CG TO WILL CONTROL OF
panel	and colonial panel
	1.
7	1111 Sand Silter
Inspector's Comments Existing Trenkes	W/ b/2 pressure
propes installed in each 4" Exist	ing pres
U T	Big House
Mar Visi des 1965 PAA M	W/Garage Howis
Corrective Action Required	Ciragi Ti Huss
Inspector's Signature & Luhon	Installer's Signature
10.	NAME OF THE PROPERTY OF THE PR
White-County Yellow	-Applicant Pink-Installer

AITKIN COUNTY AS-BUILT FORM FOR AN ISTS

ATKIN COUNTY AS-BUIL	
OWNER Dim Horris / David Taylor	PERMIT NUMBER 38973
INSTALLER More Rittel	DATE OF INSTALLATION Jule 28.2013
SETBACKS: Buildings to tank(s)	TRENCHES, BEDS OR AT-GRADE SYSTEMS: Drop box or Dist. Box and Type Trench depth(s) Trench length(s) Trench bottom width trench spacing Drainfield rock below pipe Size of graveless pipe Depth of backfill Absorption area: square feet lineal feet
Manhole access (size) 24" # and height of risers on manhole 18"	NUMBER OF PICTURES TAKEN:
MOUNDS: Percent slope Upslope dike width Downslope dike width Sideslope dike width Drainfield rock below pipe Depth of sand below rock Perforation size & spacing Pipe size & spacing Dimensions of rockbed Dimensions of sandbase Depth of final cover	Tank capacity Tank manufacturer & type # and height of risers Pump manufacturer and model # Horsepower and GPM Feet of head Cycles/day & Gallons/cycle Size of discharge line Type of electrical hookup Type and location of alarm Cycle counter type & location
DRAWING OF SYSTEM – use back of this sheet	if more room is needed. 1,500 1.44 to driveway
	500 of 1:44 tak in same spot old lift tak was

(installer signature) certify that the above work was installed in accordance

witht he submitted designa and permit conditions and the system is free from defects.***

*tank replacement & Original P# 33316 AITKIN COUNTY AS-BUILT FORM FOR AN ISTS

OWNER Jim Hollie / David Taylor	PERMIT NUMBER 3897.3
INSTALLER Make Rith.	DATE OF INSTALLATION June 28-2013
SETBACKS: Buildings to tank(s) / 0 0 +	TRENCHES, BEDS OR AT-GRADE SYSTEMS: Drop box or Dist. Box and Type Trench depth(s) Trench length(s) Trench bottom width trench spacing
SEPTIC TANKS: Liquid Capacity Liquid Capacity Manufacturer & Type Type of baffle(s) Inspection pipes (#, size & height) Manhole access (size) # and height of risers on manhole	Drainfield rock below pipe Size of graveless pipe Depth of backfill Absorption area: square feet lineal feet NUMBER OF PICTURES TAKEN:
MOUNDS: Percent slope Upslope dike width Downslope dike width Sideslope dike width Drainfield rock below pipe Depth of sand below rock Perforation size & spacing Pipe size & spacing Dimensions of rockbed Dimensions of sandbase Depth of final cover	Tank capacity Tank manufacturer & type # and height of risers Pump manufacturer and model # Horsepower and GPM Feet of head Cycles/day & Gallons/cycle Size of discharge line Type of electrical hookup Type and location of alarm Cycle counter type & location
DRAWING OF SYSTEM – use back of this sheet i	f more room is needed. 1,508 lift trk not to diversey
To New !	500 gl 1: ff tak in same spot old lift tak was

AITKIN COUNTY ENVIRONMENTAL SERVICES

OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

OPERATING PERMIT #: 228

FEE:

\$50

PERMITTEE:

Jim & Kristian Harris

PHONE:

(218) 927-7024

ADDRESS: 34322 442nd Place

Aitkin, MN 56431-

ZONING PERMIT # 33316

PARCEL #: 01-0-0\$7502

ISSUE DATE: 9/13/2005

RENEW DATE:

5/31/2007

LEGALDESCRIPTION:

4.31 ac of govt lot 1 in Doc 290122

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

This permit is effective on the issuance date identified above.

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

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

Signature of Permittee

Signature of Permitting Authority

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

Adding sandfilter pretreatment to allow the longevity of the existing septic system

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this permits expiration date, the Permittee is authorized to discharge from the wastewater treatment unit to subsurface dispersal. No surface discharge is permitted. The 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
Flow	750 gal per day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Separation	3 feet	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Aerobic Tank Function	Aerobic Tank	ANNUAL
Flow	Water Meter	MONTHLY
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 and shall be performed by a Minnesota Department of Health approved laboratory. All sampling and testing costs shall be the responibility of the Permittee.

Monitoring will be done by John Walsh

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate, lower water usage, or increase distribution area. Waste strength: if fecals exceed limit -reduce effluent strength, increase retention time or add disinfection.

2) A different or another Performance or Other System may be installed at the owner's expense. 3; If in the event that this system should fail and if there is no other ISTS option available, then Holding Tanks must be installed, to be pumped by a licensed Pumper with a contract.

F. SPECIAL REQUIREMENTS:

*** A WATER METER OR OTHER APPROVED WATER MEASURING DEVICE MUST BE INSTALLED AND READ ON A MONTHLY BASIS ***

A. M. & Associates, Inc.

RR 2. Box 2468 Palisade, MN 56469 (218) 768-4430

33316 01-0-0 Annette M. O'Keeffe

> SEPTIC SYSTEMS DESIGNS & INSPECTIONS MPCA #1357

FIRST YEAR

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

Property C	Owner(s):	ROBERT SAUERER	Parcel Code:	01-0-075502 (TRACT C)
Home Address:		45049 350 TH STREET AITKIN, MN 56431	Site Address:	SAME EDGEWATER RESORT, CEDAR LAKE, AITK
Phone (home)			Township	AITKIN
	(work) (cell)	(218) 820-7019	Phone:	÷
5 Bedro	(fax) DESC: 20°x 36	RIPTION OF INDIVIDE	UAL SEWAGE T	TREATMENT SYSTEM TO EXISTING 17 TRENCHES Tank and individual 20' x 30' OSI
	(fax) DESC 20'x 30 com House liter that w	RIPTION OF INDIVIDE O' OSI SAND FILTER D will have it own 1600 Ga will gravity into a central l	UAL SEWAGE ' DISPERSING INT allon Combination Lift Tank, to be d	TO EXISTING 17 TRENCHES Tank and individual 20' x 30' OSI ispersed into existing Trenches.
Sand Fi	DESCION House liter that w (5 Bedrion Date:	RIPTION OF INDIVIDUAL OF OSI SAND FILTER DE will have it own 1600 Garill gravity into a central legions = 750 gpd (Type 1) Installer:	UAL SEWAGE TO SEPERSING INTERPRETARIES AND ADMINISTRATION OF THE PROPERTY OF T	TO EXISTING 17 TRENCHES Tank and individual 20' x 30' OSI ispersed into existing Trenches. The state 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 Speciaties 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)

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

LIFT PUMPING STATION (Annually)

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

EFFLUENT FILTERS/PUMP SCREENS (Annually)

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

SEPTIC TANK (Annually)

- X 1. Measure sludge and scum level
- 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)
- X 3. Check general appearance

DDTTDT	A 'T' '	MENT DEVICE (Annually)
		Inspect for ponding; assess character and color of biomat
$\begin{array}{c} \frac{X}{X} \\ \frac{X}{X} \\ \frac{X}{X} \\ \frac{X}{X} \\ \end{array}$		• • •
<u> </u>		Test pressurization of laterals (squirt test)
- X		Verify proper orifice position, equal spray under orifices, no clogged orifices
<u>X</u>		Check for odors: adjust recirculating time (if necessary)
<u>X</u>		Clean and flush manifold (if necessary)
<u>X</u>	б.	Re-check squirt height (if necessary)
<u>X</u>	7.	Inspect the appearance of the wastewater inside the unit for color and turbidity.
	AL	FIELD (Annually)
X	1.	Inspect for visible signs of failure (surface discharge, soggy ground, wet spots, settling, etc.)
X		If liquid level monitors are installed, levels will be observed and recorded.
	3,	Flush filters and clean cartridges, if applicable
		Check field control unit solenoid operations or manual control, if applicable
$\frac{x}{x}$ $\frac{x}{x}$		Check for required separation
SAMPLI	IG	(As Deemed Necessary)
	1.	Aquire 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 aquired by A.M. & Associates, Inc. along with sampling analysis fees and delivery charges is the responsibility of the Property Owner).

MISCELLANEOUS (Annually)

X 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 aquire 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 on date of installation and ending December 31st of the following year.

FEES

(approx)

Maintenance, Monitoring & Inspection Service Contract

\$200.00 Due at time of signing Contract

Sample Analysis Fees & Supplies *Time & Mileage to Deliver Samples for Analysis N/A

Due at time of sampling

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.

Pro	perty Owner(s): SQUCREE	c All I	
Name:	ROBERT SAUETZER	Malut Museus	Date: 8/24/05
Spouse:	(please print) SQUENTA TAMMY SAUETZER (please print)	Many Steeres (signature)	Date: 8/24/05
A.M. & A	ssociates, Inc.:		
Name: _	Michael D. O'Keeffe (please print)	Justan Olloyfa (signature)	Date: 8-14-05

AITKIN COUNTY ENVIRONMENTAL SERVICES

APPLICATION for an OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

PERMITTEE (Edgewater R	lesort) Robert	Sauerer	P	PARCEL	NUMBER	01-0-07	5502	
ADDRESS 45049 350th Str	eet	CITY A	Litkin		STATE	MN	ZIP	56469
SEC 31 TWP 47	RGE 25	BLO			c			·····
TELEPHONE (218) 820-76		GIS	LOCATION				**********	, , , , , , , , , , , , , , , , , , ,
SITE LOCATION Same (C					·····			
A. DESCRIPTION OF V	VASTEWATEF I SAND FILTER							
5 Bedroom House will l Sand Filter that will gra (5 Bedrooms =		al Lift Tan	k, to be dispe	rsed into	existing	Trenches.		
Number of Bedrooms	5							
Flow = 750	0/450 gpd							
Hydraulic Loading Rate = 1.0	-1.2 gpd/ft2							
Organic Loading Rate = 0.00	0015 BOD/sqft							
Flow x BOD(mg/1) x 8.35 ÷ (450 x 15 x 8.35 ÷ 1,0)						
System Loading = organic lo $(.056 \div 360 = 0.00013)$		/sqft						
Anticipated System Life = 20	-30 years							
Estimated Cost of:								
System Construction =	\$10,000.00 (±)							
Operation = Monitoring Testing & Service	\$10.00 per mo							

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	750 gpd	Water Meter	Monthly	Record on Log Sheet	At time of Operating Permit Renewal
5-Day BOD	15/220 mg/l	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Total Nitrogen					
Total Phosphorus		**************************************			
TSS	15/65 mg/l	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Fats, Oils, Grease (FOG)	30 mg/l	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Fecal Coliform	Less than 1,000 cfu / 100 ml	Sand Filter	As Deemed Necessary	Take Sample for Testing	
Separation Distance	2 Foot Credit on Soil Media	Trenches			

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
Overall visual of entire system for landscaping, drainage and cover material	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.
- 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:

F. SPECIAL REQUIREMENTS:

- 1. If weeping problems should occur; lower dosing rate, lower water usage.
- 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.



Mark
Here's the septic agreement
I talked to you about on
The phone. We do have
The water meter now, but
its only heren in place
for a couple weeks.
Thanks
Jim Harris

www.thomsonhealthcare.com

AITKIN COUNTY ENVIRONMENTAL SERVICES

OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

OPERATING PERMIT #:

228

FEE:

\$50.00

PERMITTEE:

Jim & Kristian Harris

PHONE:

(218) 927-7024

ADDRESS: 34322 442nd Place

Aitkin, MN 56431-

ZONING PERMIT # 33316

PARCEL #: 01-0-075503

LEGALDESCRIPTION:

PT GOVT LOT 1 IN DOC 368976 (PT TRACT C)

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.

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

Adding sandfilter pretreatment to allow the longevity of the existing septic system

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this permits expiration date, the Permittee is authorized to discharge from the wastewater treatment unit to subsurface dispersal. No surface discharge is permitted. The 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	750 gal per day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Separation	3 feet	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY	Mak?
Aerobic Tank Function	Aerobic Tank Sand Filter	ANNUAL	ood .
Flow	Water Meter	MONTHLY	ood V
Pumps, Floats & Alarms	Pump Chamber	ANNUAL	1
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL YES	
Surface Discharge	Dispersal System	ANNUAL	ne /
Vegetative Cover	Dispersal System	ANNUAL	000

. 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 and shall be performed by a Minnesota Department of Health approved laboratory. All sampling and testing costs shall be the responibility of the Permittee.

Monitoring will be done by A.M. Associates Mark Ritter

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate, lower water usage, or increase distribution area. Waste strength: if fecals exceed limit -reduce effluent strength, increase retention time or add disinfection.

2) A different or another Performance or Other System may be installed at the owner's expense. 3) If in the event that this system should fail and if there is no other ISTS option available, then Holding Tanks must be installed, to be pumped by a licensed Pumper with a contract.

F. SPECIAL REQUIREMENTS:

*** A WATER METER OR OTHER APPROVED WATER MEASURING DEVICE MUST BE INSTALLED AND READ ON A MONTHLY BASIS ***

	0.	
	Per	
<u>Month</u>	day	Reading
	(30)	
June	81	0
July	158	9450
August	158	7160
September	149	9550
October	198	14020
November	128	19980
December	144	23820
2008		
January	118	28140
February	188	21000
March	97	3/300
April	181	31680 37320 40250 45690
May June		1-2640
July		
August		
September		ļ
October		
November		
December		
Describer		
2009		
January		
February	~	
March		
April		
May		
June		
July		
August		2
September		
October		
November		
December		
2010		
lanuasi		
January		
February		
March		
April		
May June		

Homs water meter readings HE079 JEOT St MITKIN

7-5.07

Septic et = 2094

ETM = 1,346 Min

Soudfiller et = 2,164

ETM = 2,400 Min

7-26-08

Septix et = 4,528

ETM = 2,911 Min

Soudfiller et = 4,486

ETM = 5,177 Min

RECEIVED FROM Sim Hurris

ADDRESS A: HKin MW

One hall

Dollars \$ 100

DFOR RENT
DFOR

DFOR

ACCOUNT

AMT. PAID

AMT. PAID

BALANCE
DUE

DATE

10-14-0?

NO. 6810

NO. 6810

NO. 6810

AITKIN COUNTY ENVIRONMENTAL SERVICES

OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

OPERATING PERMIT #: 228

FEE:

\$100

PARCEL #: 01-0-075503

PERMITTEE:

Jim & Kristian Harris

PHONE:

(218) 927-7024

ADDRESS: 34322 442nd Place

Aitkin, MN 56431-

to 2012

ZONING PERMIT # 33316

ISSUE DATE: 5/31/2009

RENEW DATE:

5/31/2010

LEGALDESCRIPTION:

PT GOVT LOT 1 IN DOC 368976 (PT TRACT C)

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

Signature of Permittee

Signature of Permitting Authority

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

Adding sandfilter pretreatment to allow the longevity of the existing septic system

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this permits expiration date, the Permittee is authorized to discharge from the wastewater treatment unit to subsurface dispersal. No surface discharge is permitted. The 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	750 gal per day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Separation	3 feet	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Aerobic Tank Function Sand filter	Aerobic-Tank Sand filter	ANNUAL
Flow	Water Meter	MONTHLY
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL
Surface Discharge	Dispersal System	ANNUAL
Vegetative Cover	Dispersal System	ANNUAL 500 d

I believe this system is working within the parameter sot butty t we within the parameter sot butty t we can have a three year permit in place.

Make P Rither 54/4 15-2009

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 and shall be performed by a Minnesota Department of Health approved laboratory. All sampling and testing costs shall be the responibility of the Permittee.

Monitoring will be done by A.M. Associates

E. MITIGATION PLAN:

1) If weeping occurs; lower dosing rate, lower water usage, or increase distribution area. Waste strength: if fecals exceed limit -reduce effluent strength, increase retention time or add disinfection.

2) A different or another Performance or Other System may be installed at the owner's expense. 3) If in the event that this system should fail and if there is no other ISTS option available, then Holding Tanks must be installed, to be pumped by a licensed Pumper with a contract.

F. SPECIAL REQUIREMENTS:

*** A WATER METER OR OTHER APPROVED WATER MEASURING DEVICE MUST BE INSTALLED AND READ ON A MONTHLY BASIS ***

<u>Month</u>	Reading
June	0
July	3430
August	7160
September	9.550
October	140,20
November	14980
December	23820
2008	
January	38140
February	31680
March	37320
April	1-0250
May	1.5690
June	51 490
July	67130
August	62550
September	65 340
October	
November	70 140 74 830
December	80 100
2009	
January	85,140
February	81,670
March	195,140
April	100,410
May	105,680
June	105,410
July	
August	
September	
October	
November	
December	
2010	
January	
February	
March	
Amril	

April May June Hamis watermeter readings 45079 350th St. AITKIN

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 Jim Harris:

This letter is to inform you that your Operating Permit (No. <u>228</u>) has been renewed until May 31, 2012. You should note that all renewal dates that were formerly on December 31 have been moved forward to allow your Operation and Maintenance provider suitable time to complete the monitoring report.

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

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

Sincerely,

Pete Gansen

Aitkin County Planning & Zoning and

te Gansen

Environmental Services





AITKIN COUNTY ENVIRONMENTAL SERVICES

OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

OPERATING PERMIT #:

228

FEE:

100

PERMITTEE:

Jim & Kristian Harris

PHONE:

(218) 831-5833

ADDRESS: 45079 350th Street

Aitkin, MN 56431-

ZONING PERMIT # 33316

PARCEL #: 01-0-075503

ISSUE DATE: 5/31/2009

RENEW DATE:

5/31/2012

LEGALDESCRIPTION:

PT GOVT LOT 1 IN DOC 368976 (PT TRACT C)

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

Signature of Permitting Authority

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.

7-19-12 Clath 7057 \$100 Receipt 374240

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

Adding sandfilter pretreatment to allow the longevity of the existing septic system

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this permits expiration date, the Permittee is authorized to discharge from the wastewater treatment unit to subsurface dispersal. No surface discharge is permitted. The 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 FREQUENCY
Flow	750 gal per day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY
Separation	3 feet	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Aerobic Tank Function Sand filter	Aerobic Tank	ANNUAL OK ~
Flow	Water Meter	MONTHLY OK
Pumps, Floats & Alarms	Pump Chamber	ANNUAL OK
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL oK
Surface Discharge	Dispersal System	ANNUAL NOW
Vegetative Cover	Dispersal System	ANNUAL 5000 L

water meter shows 130 gld to 150 gpd amrange
this system appears to beworking within the goods lines.
I believe we can put this on a 5 year contract.
We do have a maintene contract in place to look at
once a year!

Month	Reading
2009	
May	105,680
June	111 720
July	117,040
August	121 800
September	125,794
October	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
November	
December	139,232
2010	
January	144,050
February	198,700
March	152,760
April	
May	160,320
June	160,320
July	,
August	
September	
October	1702
November	189,560 194,680
December	174,680
2011	
January	198 620
February	198 620 203,370
March	==0,7
April	
May	217.700
June	217,700
July	
August	
September	3
November	
December	246,160
2012	
January	250,980
February	250,980 255,290
March	
April	
May	
lune	284,180
luly	

HARRIS WATER METER READINGS 45079 350th St Altkin

5.4 1-2012 130 to 150 910

AITKIN COUNTY AS-BUILT FORM FOR AN ISTS

OWNER Dim Horris / David Taylor	PERMIT NUMBER 38973
INSTALLER More Ritter	DATE OF INSTALLATION Jule 28.2013
SETBACKS: Buildings to tank(s) /00' + Building to drainfield /60' + Well(s) 50' or 100' /00' + Lake/Creek/Wetland /00' + Property lines (drainfield/tanks) /0' +	TRENCHES, BEDS OR AT-GRADE SYSTEMS: Drop box or Dist. Box and Type Trench depth(s) Trench length(s) Trench bottom width trench spacing Drainfield rock below pipe
SEPTIC TANKS: Lift fork Liquid Capacity 1, 500 Manufacturer & Type 5 < 100	Size of graveless pipe Depth of backfill Absorption area: square feet lineal feet NUMBER OF PICTURES TAKEN:
MOUNDS: Percent slope	PUMPS: Tank capacity Tank manufacturer & type # and height of risers Pump manufacturer and model # Horsepower and GPM Feet of head Cycles/day & Gallons/cycle Size of discharge line Type of electrical hookup Type and location of alarm Cycle counter type & location
Exist tree	nd15

| __________(installer signature) certify that the above work was installed in accordance witht he submitted designa and permit conditions and the system is free from defects.

THOMSON

Mark

Here's the septic agreement

I talked to you about on

the water meter now, but

it's only been in place

for a couple weeks

Thanks

Jim Harris

INDIVIDUAL SEWAGE TREATMENT SYSTEM INSPECTION FORM

Township Atkin Date of Inspection	
Date of Inspection	Permit Number 3 301 0
Owner (Bob Saverer) Jim Horr	Parcel Number 01-0-073303
Project Address 4131 Ac. of Ger 10T In	Doc 2901 Installer Mark Ritter
	New Repair
SETBACKS:	DIST. or DROP BOX & TYPE
Buildings to tank(s) 20	TRANSPORTER DATA
Buildings to drainfield /ou '	TRENCHES, BEDS, OR GRAVELLESS LEACHFIELD:
Well(s) 50' or 100'	Trench depth Existing Trenches
Lake/Creek/Wetland	Trench length 55' X 17
	Trench bottom width
SEPTIC TANKS:	Trench bottom level <u>x2 ç</u>
Liquid capacity 1860 Comb s	Trench spacing
Manufacturer & type Juc pro-cast Type of baffle plas T: c	Drainfield rock below pipe
Type of baffle plas 1 - c	Size of gravelless pipe All Treaches Home
Inspection pipes 1-4" /-6" Manholes access 2	Depth of backfill 6 " w pressure hines
	Absorption area: square feet
No. & height of risers //	lineal feet
MOUNDS:	PUMPS:
MOUNDS: Sand Filters	Tank capacity 1960 1 1500
Upslope dike width	Tank manufacturer & type Jac prc - cast
Downslope dike width	No. & height of risers 3 7 2 17"
Sideslope dike width	Pump manufacturer & model # 2 - 1 horse +2-92 Zo/lars
Drainfield rock below pipe	Horsepower & GPM 2 - 1 horse 2- 1/3 horse
Depth of sand below rock	Feet of head 197 28
Perforation size & spacing 1/4	Cycles per day Time Doserl
Pipe size & spacing \$ 2" 55' Lines	Gallons per cycle
Dimensions of rock bed	Size of discharge line
Dimensions of sand base	Type of electrical hookup P65
Final cover	Type & location of alarm \Qlc.
DRAWING OF SYSTEM	Cycle counter (commercial)
(Include Soils)	This is a repair for 9 Bed
23	Q - Hauses
in &	
2, g	
1.1111100.61	Mr. 2011ers 1500 7 Pump. 2011ers
((() ()))	Mr. Zollers 1500 7 Pury Zollers
[[]]][][]]]]]]	T + V2 m. 28
111111111111111111111111111111111111111	- N
	1
1 Zone & Zone Kuntrel	16"car Tous w/contral par
panel	Torcar Tonk w/contralpanel
	TIC. A CIL
Inspector's Comments Existing Trendes w	/ 1/2 pressuro
propes installed in each 4" Exist.	Die Dipe &
0 , 54.71	B. g House
524 W. 528 (221 - 2528) 538	1 11 11 11 11
Corrective Action Required	W/Garage House
120,	
nspector's Signature John	Installer's Signature
White-County Vellow-A	annicant Pink Installer

34753 390th Place • Aitkin, MN 56431

Phone: 218.927.4125 • Fax: 218.927.4471

Toll Free: 800.450.4125

info@rittersewer.com • www.rittersewer.com

June 29-2012

SEPTIC SYSTEM REVIEW FOR Jim Harris/David Taylor Parcel # 01-0-075503

Property located in Aitkin Township

The above mentioned property has a lift tank that they share up on the hillside by the base of the trenches. The lift tank collapsed during the high water /massive rain at the end of June 2012. We have installed a new 1,500 gallon precast concrete tank in the same area the pumps, floats and all settings on the time dosing panel are the same as they where. We have a Maintence, Monitoring and Inspection Contract with said property owner.

Ritter Sewer & Excavating Inc

Mark P. Ritter ISTS # 1672

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Aitkin, Minnesota 56431

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



July 19, 2012

RE: Renewed Operating Permit

To Jim & Kristin Harris:

This letter is to inform you that your Operating Permit (No. <u>228</u>) has been renewed until May 31, 2017.

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 and Environmental Services

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

Aitkin, Minnesota 56431

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

Jim & Kristin Harris 45079 350th Street Aitkin, MN 56431-

Re:

Operating Permit # 228 Zoning Permit #33316 Parcel ID#01-0-075503

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

34753 390th Place • Aitkin, MN 56431

Phone: 218.927.4125 • Fax: 218.927.4471

Toll Free: 800.450.4125

info@rittersewer.com • www.rittersewer.com

SEPTIC SYSTEM REVIEW FOR Jim Harris Operating Permit# 228 Parcel # 01-0-075503

Property located in Aitkin Township

May 22, 2017

The above mentioned property has a water meter installed on it. On January 2014 the meter reading was 377,410. On January 2017 the meter reading was 591,500 with a difference of 214,090 gallons. So at 214,090 gallons divided by 1,095 days =195 gallons per day average.

The system is set up for 750 gallons per day so I believe that we can put this system on a 5 year operating permit.

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

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

Sincerely,

Mark P. Ritter

Ritter Sewer & Excavating, Inc.

AITKIN COUNTY ENVIRONMENTAL SERVICES

OPERATING PERMIT FOR WASTEWATER TREATMENT AND DISPERSAL

OPERATING PERMIT #: 228

ZONING PERMIT #: 33316

PARCEL #: 01-0-075503

PERMITTEE: Jim & Kristin Harris

MAILING ADDRESS: 45079 350th Street

Aitkin, MN 56431-

ORGINAL DATE ISSUED: 5 /31/2009

RENEWAL PERIOD:

RENEWAL EXPIRATION: 5 /31/2017

PROPERTY ADDRESS:

45079 350th St. Aitkin, MN 56431

TELEPHONE: (218) 831-5833

LEGAL: PT GOVT LOT 1 IN DOC 368976 (PT TRACT C)

FEE PAID: 100

DATE PAID:

RECEIPT:

CK #:

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

This permit is effective on the issuance date identified above.

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

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

Signature of Permittee

Signature of Permitting Authority

Date

5/23/17

Date

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

Misc. (OFFICE USE ONLY) App. # App-2017-001798

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

			CIIIall. al	CITIAIL. AITKIITPZ@CO.AITKIN.MN.US	in.mn.us		
	Ch	Charge		Cost	Quantity	Total	Note
Operating Perm \$100	Operating Permit Renewal added 05/23/2017 11:01 AM \$100	5/23/201	7 11:01 AM	\$100.00	×	\$100.00	
Grand Total							
					Total	\$100.00	
Payment							
Method: Check	Check	Note:	check 2501 for renewal of OP 228	228			
Date:	05/23/2017		Jim Harris				
Made By:	Jim Harris		45079 350th St, Aitkin				
Confirmed By:	Kalea Suihkonen						

	2014	2015	2016	2017
lan				
Jan	377.+5	450,926	525,856	59 500
Feb	Gellans per year	73510	74,970	65,620
March				
April	396,780		Sugara	*
May		47-,00		614,700
June				
July	472.10	483,960	562,340	
August	478,010		567,990	
Sept				
Oct	3	504,480	*	
Nov	437,530		585,120	
Dec				

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

209 Second Street, NW Room# 100 Aitkin, Minnesota 56431

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

5/30/2017

Jim & Kristin Harris 45079 350th Street Aitkin, MN 56431-

Re: Operating Permit # 228 Zoning Permit # 33316 Parcel # 01-0-075503

Dear Permittee:

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

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

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

Sincerely,

Kaleas.

Aitkin County Planning & Zoning

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING

307 Second St NW, Room 219 Aitkin, Minnesota 56431

(P): (218) 927-7342 (F): (218) 927-4372

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

8/2/2022

Jim & Kristin Harris 45079 350th Street Aitkin, MN 56431-

Re: Operating Permit # 228

> Zoning Permit # 33316 Parcel ID# 01-0-075503

Dear Permittee:

This letter is to remind you that the Operating Permit for the septic system at the above mentioned parcel is due for renewal this year by September 30th. The enclosed Operating Permit was issued as part of the permit for your septic system and must be renewed.

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

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

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

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

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

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

Sincerely,

Aitkin County Planning & Zoning

Invoice #56321 (10/03/2022)

2. Zoning/Land Use Permit Applications Misc. (OFFICE USE ONLY) App. # App-2022-009639, UID # 206562 Jim Harris

(000) 000-0000

45079 350th St, Aitkin, MN 56431

Aitkin County Planning & Zoning / Environmental Services

307 Second St. NW Room 219

Aitkin, MN 56431

Phone: 218-927-7342

Fax: 218-927-4372

				Email: aitkinpz	@co.aitkin.mn.us		
			arge	Cost	Quantity	Total	Note
Operating Perm \$150	nit Renewal added 10/0	3/2022 3	:28 PM	\$150.00	x 1	\$150.00	
Grand Total							
					Total	\$150.00	
Payment #5027	6						
Method:	Check		2973				
Date:	10/03/2022	Note:	OP 228 2022 renewal				
Made By:	Jim Harris						
Confirmed By:	Shannon Wiebusch						



34753 390th Place • Aitkin, MN 56431 Phone: 218.927.4125 • 800.450.4125

rittersewer@hotmail.com •www.rittersewer.com

SEPTIC SYSTEM REVIEW FOR Jim Harris Parcel # 01-0-075503 Operating permit #228

Property located in Aitkin Township

September 29, 2022

The above mentioned property has a water meter installed on it. On Aug 2017 the meter reading was 647,850. On Aug 2022 the meter reading was 1,148,630 with a difference of 500,780 gallons. So at 500,780 gallons divided by 1825 days =274 gallons per day average.

The system is set up for 750 gallons per day so I believe that we can put this system on a 5 year operating permit.

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

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

Sincerely,

Mark P. Ritter

Ritter Sewer & Excavating, Inc.

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

ISSUANCE DATE:

9/30/2022

RENEWAL PERIOD:

5 YEAR

OPERATING PERMIT #: 228 ZONING PERMIT #: 33316

PARCEL #: 01-0-075503

PERMITEE:

Jim & Kristin Harris

MAILING ADDRESS:

45079 350th Street Aitkin, MN 56431-

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.

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

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 Jim HARRI	Date 8/16/22
Signature of Permitting hanne ().	Date <u>10-3-22</u>

A. DESCRIPTION OF WASTEWATER TREATMENT AND DISPERSAL SYSTEM

Adding sandfilter pretreatment to allow the longevity of the existing septic system

B. PERFORMANCE STANDARD REQUIREMENTS:

During the period beginning on the effective date (issuance date) of this permit and lasting until this permit's expiration date, the Permittee is authorized to discharge from the wastewater treatment unit to subsurface dispersal. No surface discharge is permitted. The following parameters must be monitored and the results must be found within the compliance limits.

PARAMETER	COMPLIANCE LIMIT	SAMPLE LOCATION	SAMPLE FREQUENCY	SAMPLE TYPE	REPORTING FREQUENCY
Separation	3 feet	Dispersal System	ANNUALLY	Measure in Field	ANNUALLY
Flow	750 gal per day	Water Meter	MONTHLY	Record on Log Sheet	ANNUALLY

C. MAINTENANCE REQUIREMENTS:

PARAMETER	LOCATION	FREQUENCY
Flow	Water Meter	MONTHLY See a Harred
Pumps, Floats & Alarms	Pump Chamber	ANNUAL
Sand Filter	Sand Filter	ANNUAL
Solids Removal & Water Tightness	Septic tank(s)	ANNUAL
Surface Discharge	Dispersal System	ANNUAL
Vegetative Cover	Dispersal System	ANNUAL

D. MONITORING AND REPORTING REQUIREMENTS:

	2017	2018	2019	2020	2021	2022
January	591,500		796,140	904,040	1,009,920	1,117,600
February						
March		708,370				1,104,570
April			821,110	929,970	1,035,330	
May	614,700	726,560				
June			838,670	945,530	1,054,310	1,130,210
July	636,240				1,063,890	
August	647, 850	753,810				1,148,630
September			865,860	974,320		
October	665, 130	771,680			1,092,436	
November						
December	679,950	788,500	895,500	1,002,300	1,109,080	

HARRIS WATER METER READINGS 45079 350th Street AITKIN, MN 56431

AITKIN COUNTY ENVIRONMENTAL SERVICES-PLANNING & ZONING 307 Second Street NW Room# 219

Aitkin, Minnesota 56431

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

10/3/2022

Jim & Kristin Harris 45079 350th Street Aitkin, MN 56431 Re: Operating Permit # 228 Zoning Permit # 33316

Parcel # 01-0-075503

Dear Permittee:

This letter is to inform you that your Operating Permit has been renewed until 9/30/2027

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

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

Sincerely,

Aitkin County Planning & Zoning

Shannon W.