



Inspect Minnesota & Midwest Soil Testing

PO Box 10853

White Bear Lake, MN 55110

(651) 492-7550

Brian@Midwestsoiltesting.com

Invoice

BILL TO

Mr. David MacDonald

(Buyer)

19489 St Croix Trl N

Scandia, MN 55047

INVOICE # 3983

DATE 07/26/2019

DUE DATE 08/10/2019

TERMS Net 15

ACTIVITY	AMOUNT
Septic System Compliance Inspection and Report	425.00
Washington County Point Of Sale Compliance Inspection Filing Fee	50.00
<hr/>	
BALANCE DUE	\$475.00

Inspect Minnesota & Midwest Soil Testing

MPCA Licensed Advanced Designers, Inspectors, & Service Providers

July 26, 2019

Mr. David MacDonald (Buyer)
19489 St Croix Trl N
Scandia, MN 55047

Subject: Septic System at 19489 St Croix Trl N, Scandia, MN

Dear David:

Please find the attached septic system results for the subject property.

Per our agreement, please find the attached invoice, which is due for payment upon receipt. If you are not in agreement with this method of payment, please advise me as to the proper procedure to receive payment.

Thank you very much for allowing me to do this work. Please contact me should you have any questions.

Sincerely,

Brian Humpal

Brian Humpal

Cc Mr. Ryan Bretzel – Keller Williams
Washington County Department of Public Health & Environment

Inspect Minnesota & Midwest Soil Testing

P.O. Box 10853 White Bear Lake, MN 55110
651-492-7550/Brian@Midwestsoiltesting.com

Brian Humpal
MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: July 24, 2019

Time: 12:15 PM

Owner: Estate

Inspection Address: 19489 St Croix Trl, Scandia, MN 55047

REPORT SUMMARY

I have performed an “MPCA Compliance Inspection” on this system and have reviewed the original design/permit records on file at Washington County. This very old system (installed in 1987) consists of a pre-cast septic tank, a pre-cast lift tank, and a mound. It should be noted that the average life expectancy of a septic system is approximately 30 years. This house is presently vacant.

Although not a compliance criteria, the septic tank and lift tank manhole covers are buried. I recommend extending these covers to the ground surface to facilitate easier access and proper maintenance.

Predicated on my inspection of the system and my review of the original design/permit records, it is my opinion that this system presently meets MPCA minimum compliance inspection requirements.

Inspect Minnesota and Midwest Soil Testing have been hired to perform a compliance inspection of this SSTS for compliance with local ordinances pursuant to Minn. Stat. § 115.55 (2013). This compliance inspection covers only the criteria required by Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011). A compliance inspection is an indication of the current compliance status of the system and does not guarantee the performance or longevity of this system beyond the date of inspection, as it is impossible to determine the future performance of any system. Inspect Minnesota and Midwest Soil Testing disclaim any use of this compliance inspection beyond determining SSTS compliance pursuant to Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011).

Please contact me should you have any questions.



Christopher Uebe



Brian Humpal

NOTE: This report is not complete without the inclusion/attachment of the additional pages which consist of up to three (3) MPCA drafted Compliance Inspection Documents, one (1) Homeowner/Occupant Information Sheet (when obtainable), one (1) site diagram, one (1) log of soil boring(s), one (1) Brian L Humpal, Inc. Disclaimer Sheet, and one (1) MPCA License.



Minnesota Pollution Control Agency

520 Lafayette Road North
St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

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

For local tracking purposes:

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

System Status

System status on date (mm/dd/yyyy): 7/24/2019

Compliant – Certificate of Compliance

(Valid for 3 years from report date, unless shorter time frame outlined in Local Ordinance.)

Noncompliant – Notice of Noncompliance

(See Upgrade Requirements on page 3)

Reason(s) for noncompliance (check all applicable)

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

Property Information

Parcel ID# or Sec/Twp/Range: _____

Property address: 19489 St Croix Trl N, Scandia, MN 55047

Reason for inspection: Property Transfer

Property owner: Estate

Owner's phone: _____

or

Owner's representative: _____

Representative phone: _____

Local regulatory authority: Washington County

Regulatory authority phone: 651-430-6655

Brief system description: A pre-cast septic tank, a pre-cast lift tank, and a mound.

Comments or recommendations:

Although not a compliance criteria, the septic tank and lift tank manhole covers are buried. I recommend extending these covers to the ground surface to facilitate easier access and proper maintenance.

Certification

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

Inspector name: Brian Humpal/Christopher Uebe

Certification number: C5342/C9852

Business name: Inspect Minnesota, Midwest Soil Testing

License number: L2896

Inspector signature: *Brian Humpal*

Phone number: 651-492-7550

Necessary or Locally Required Attachments

- Soil boring logs
- System/As-built drawing
- Forms per local ordinance
- Other information (list): Report Summary, Property Information, Disclaimer, License

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

Compliance criteria:

System discharge sewage to the ground surface.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System discharge sewage to drain tile or surface waters.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
System cause sewage backup into dwelling or establishment.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Any "yes" answer above indicates the system is an Imminent Threat to Public Health and Safety.

Comments/Explanation:
None of the above found.

Verification method(s):

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

2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:

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

Any "yes" answer above indicates the system is Failing to Protect Groundwater.

Comments/Explanation:
Lowered underwater camera into tanks - baffles and tank walls OK.
Lift pump was operational at the time of the inspection. Due to poor access to the alarm float, I was unable to test the alarm.
Although not a compliance criteria, the septic tank and lift tank manhole covers are buried. I recommend extending these covers to the ground surface to facilitate easier access and proper maintenance.

Verification method(s):

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

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

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

Explain:

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

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 1987 Unknown
Shoreland/Wellhead protection/Food Beverage Lodging? Yes No

Compliance criteria:

For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment: Yes No

Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.

Non-performance systems built April 1, 1996, or later or for non-performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment: Yes No

Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*

“Experimental”, “Other”, or “Performance” systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080.2350 or 7080.2400 (Advanced Inspector License required) Yes No

Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.

Any “no” answer above indicates the system is Failing to Protect Groundwater.

Verification method(s):

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

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

Comments/Explanation:

Reviewed design and permit records.

Indicate depths of elevations

A. Bottom of distribution media	See Attached Boring Log(s)
B. Periodically saturated soil/bedrock	
C. System separation	
D. Required compliance separation*	

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

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

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

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

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

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

Compliance criteria

a. Operating Permit number: _____ Yes No
 Have the Operating Permit requirements been met?

b. Is the required nitrogen BMP in place and properly functioning? Yes No

Any “no” answer indicates Noncompliance.

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

5 of 10
Inspect Minnesota & Midwest Soil Testing
Subsurface Sewage Treatment System Owner/Property Information

This information will be used for the purpose of conducting an MPCA Compliance Inspection.

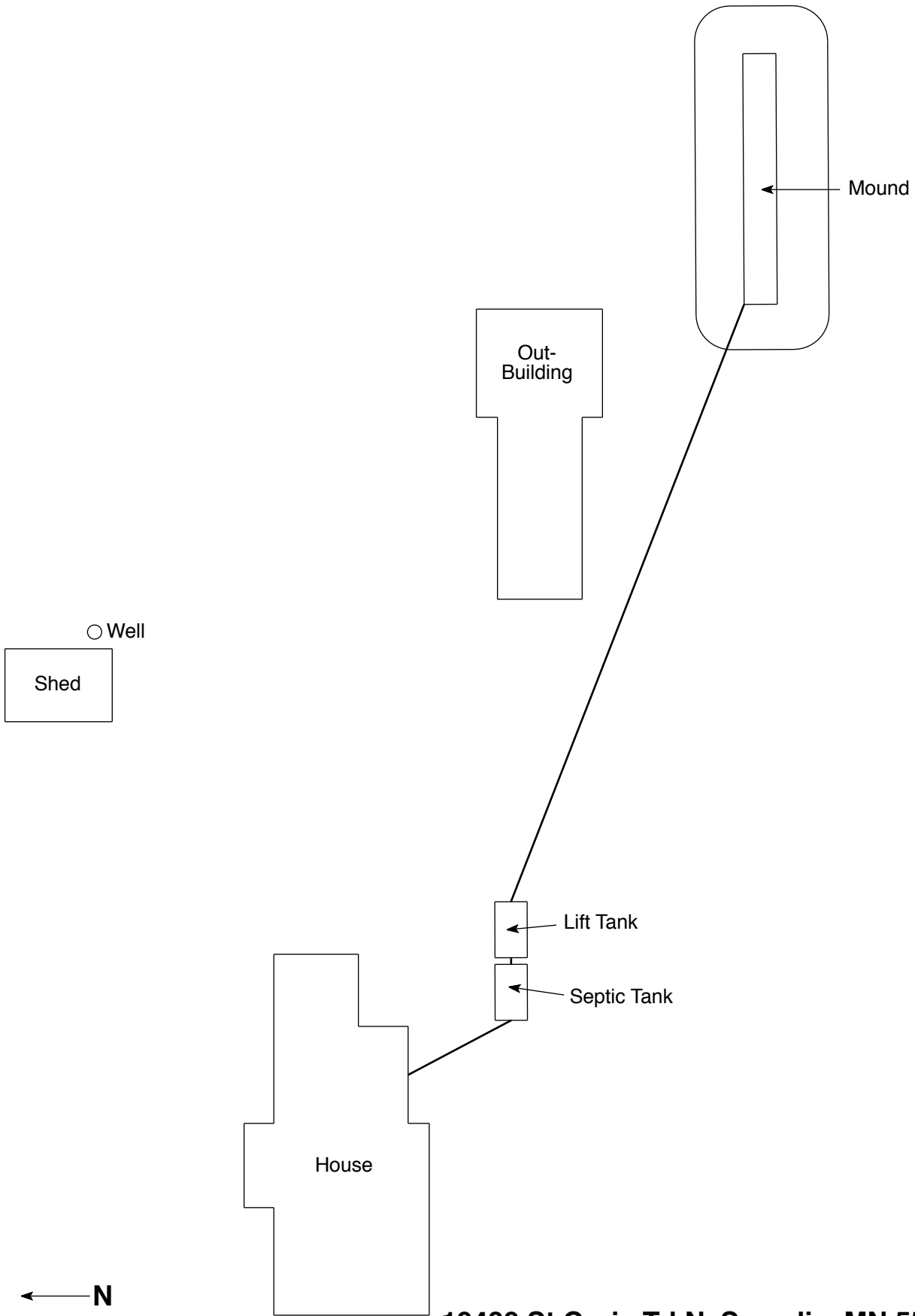
Date of Inspection: July 24, 2019		Time: 12:15 PM	
Property Address: 19489 St Croix Trl N, Scandia, MN		Zip: 55047	
Property Owner: Estate		Phone:	
<u>Tank(s)</u> <input checked="" type="checkbox"/> Septic 1 <input type="checkbox"/> Aerobic <input checked="" type="checkbox"/> Lift <input type="checkbox"/> Holding <input type="checkbox"/> Other:	<u>Tank(s)Material</u> <input type="checkbox"/> Fiberglass <input type="checkbox"/> Plastic <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Block <input type="checkbox"/> Other _____	<u>Soil Treatment System</u> <input type="checkbox"/> Rock trench <input type="checkbox"/> Gravelless trench <input type="checkbox"/> Chamber trench <input type="checkbox"/> Seepage bed <input checked="" type="checkbox"/> Mound <input type="checkbox"/> At-grade	<u>Other</u> <input type="checkbox"/> Alternative system _____ <input type="checkbox"/> Experimental system _____ <input type="checkbox"/> Cesspool system _____ <input type="checkbox"/> Other system _____ _____ _____
Are the tank maintenance covers accessible? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No *If no, proper maintenance must be performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system.			
Year house built: 1895	Year septic installed: 1987	Tank size (gals.): 1500	
How long has seller owned the property?		Number of residents in home?	
Number of bedrooms? 5	Are all floors drained by gravity? Y		
Garbage disposal? N	Whirlpool bath? N		
More than one system (laundry, etc.)?			
Does this property have any footing drain tiles connected to the septic system?			
Are any buildings on this property such as garages or out-buildings connected to this system?			
Are there any additional systems on this property serving other buildings?			
Location of septic system on lot? East Side			
Location of water well on lot? East Side		Is the well a deep well? Y	
Have you ever experienced any problems with the system such as: tree roots, sewage back-ups, surfacing of sewage onto the ground, septic tank overflowing, etc.; or have any repairs been made to the system? If yes, explain:			
When was the system last pumped? 2017		Name of pumper: Smilie's Sewer Service	
How often pumped in previous years?		Is system on a monitoring plan?	
Have you received notices from any government agency concerning this system?			
Is your property located in a shoreland management area? N			
Do you have any additional information that should be given to the new owner?			

I hereby certify that the above information is correct to the best of my knowledge. I also understand that if the system is considered "non-compliant/failing" per MPCA rules, that the inspector must by law submit a copy of this report to the local government unit within 15 days of the date of inspection completion. I also agree that unless otherwise noted in this report, that I/we are ultimately responsible for payment of all fees for all work performed relative to this inspection by Inspect Minnesota and Midwest Soil Testing.

Owner/Occupant: _____

Date: _____

S-1 By Inspect MN ○



← N
NO SCALE

19489 St Croix Trl N, Scandia, MN 55047

Soil Observations Log

Location of Project:		19489 St Croix Trl N, Scandia, MN 55047			
Observations Made By:		Inspect Minnesota		Date:	7/24/19
Classification System:		USDA			
Soil Observation:		1		Soil Observation:	
Surface Elevation of Observation		52" below top of mound on original contour		Surface Elevation of Observation	
Depth In Inches	Rock %	<u>Soils Encountered</u>		Depth In Inches	Rock %
0-9		10YR 3/4 Loamy Sand			
9-18		10YR 4/4 Medium Coarse Sand			
		Refusal At 18" Turns To \geq 50% Gravel			
18"	Depth To End Of Soil Observation Or Redox			Depth To End Of Soil Observation Or Redox	
+52"	Elevation Of Observation Below Top Of Mound			Elevation Of Observation Relative To System	
-31"	Depth To Bottom Of Distribution Media			Depth To Bottom Of Distribution Media	
\geq 39"	Of Separation			Of Separation	
End Of Soil Observation At:		18"		End Of Soil Observation At:	
Redox Present At:		None		Redox Present At:	
Standing Water Present At:		None		Standing Water Present At:	

Bottom Of Distribution Medium At: 31 Inches

Signature: _____



WASHINGTON COUNTY JOINT COMMUNITIES WASTEWATER FACILITIES PROJECT

Logs of Soil Borings

Location Bestland #10B-125

Borings made by Brian Korman / Chuck Danzki Date 1-21-87

Depth, in feet	Boring number <u>1</u>	Depth, in feet	Boring number <u>2</u>
1	6" - Dark Brown Sandy Loam Dark Brown Silty sand same material traces of wood	1	6" - Dark Brown Sandy Loam Dark Brown Fine Silty sand w/ traces of wood 18" - End - Large stones
2	2 1/2" - reddish Brown fine silty sand	2	
3	3 1/4" - yellowish Brown mottled sandstone	3	
4	End - Large stones	4	
5		5	
6		6	
7		7	
8		8	

End of boring at 4" feet.
Standing water table:
Present at feet of depth,
 hours after boring.
Not present in boring hole .

Mottled soil:
Observed at 12" feet of depth.
Not present in boring hole .
Observations and comments:

End of boring at 18" feet.
Standing water table:
Present at feet of depth,
 hours after boring.
Not present in boring hole .

Mottled soil:
Observed at 8" feet of depth.
Not present in boring hole .
Observations and comments:

WASHINGTON COUNTY JOINT COMMUNITIES WASTEWATER FACILITIES PROJECT

Logs of Soil Borings

Location Bestland

Borings made by Korman Date 5/2/84

Depth, in feet	Boring number <u>2A</u>	Depth, in feet	Boring number <u> </u>
	10 Ft East of Boring 2		
1	8" - Dark Brown Sandy Loam Dark Brown Silty Sand w/ some mottling	1	
2	18" - End - Large stones	2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	

End of boring at 18" feet.
Standing water table:
Present at feet of depth,
 hours after boring.
Not present in boring hole .

Mottled soil:
Observed at 8" feet of depth.
Not present in boring hole .
Observations and comments:

End of boring at feet.
Standing water table:
Present at feet of depth,
 hours after boring.
Not present in boring hole .

Mottled soil:
Observed at feet of depth.
Not present in boring hole .
Observations and comments:

WASHINGTON COUNTY JOINT COMMUNITIES WASTEWATER FACILITIES PROJECT

Logs of Soil Borings

Location Bestland #10B-185

Borings made by Brian Korman / Chuck Danzki Date 1-29-87

Depth, in feet	Boring number <u>3</u>	Depth, in feet	Boring number <u>4</u>
1	6" - Dark Brown Sandy Loam Dark reddish brown silty sand	1	6" - Dark Brown sandy loam Dark Brown Silty Sand
2	yellowish brown mottled sandstone	2	12" - medium Brown clayey sand w/ broken sandstone fragments
3	30" - End - Large stones	2 1/4"	End - Large stones
4		3	
5		4	
6		5	
7		6	
8		7	
		8	

End of boring at 2'6" feet.
Standing water table:
Present at feet of depth,
 hours after boring.
Not present in boring hole .

Mottled soil:
Observed at 2' feet of depth.
Not present in boring hole .
Observations and comments:

End of boring at 2'4" feet.
Standing water table:
Present at feet of depth,
 hours after boring.
Not present in boring hole .

Mottled soil:
Observed at 18" feet of depth.
Not present in boring hole .
Observations and comments:

DISCLAIMER

Brian L. Humpal, Inc. dba. Inspect Minnesota, Midwest Soil Testing Relative to Subsurface Sewage Treatment System (SSTS) Compliance Inspections

1. This inspection/report is being performed for only the seller/owner of the property on which the SSTS is located. In such case that another party is paying for the inspection, the contract is between only said party and Brian L. Humpal, Inc.; there is no contract between Brian L. Humpal, Inc. and any other party unless otherwise noted.
3. Brian L. Humpal, Inc. has not been retained to warranty, guarantee, or certify the proper functioning of the SSTS for any period of time beyond the date of inspection or into the future. Because of the numerous factors (usage, maintenance, soil characteristics, previous failures, etc.) which may affect the proper operation of an SSTS, as well as the inability of Brian L. Humpal, Inc. to supervise or monitor the use or maintenance of the SSTS, the report shall not be construed as a warranty by Brian L. Humpal, Inc. that the SSTS will function properly for any particular party for any period of time.
4. Brian L. Humpal, Inc. is unable to verify the frequency and/or, quality of prior or future maintenance of the SSTS. Maintenance of the tank(s) must be performed through the tanks maintenance hole. The removal of solids from any location other than the maintenance hole is not a compliant method of maintenance. It is strongly recommended that maintenance covers be made accessible to the ground surface to facilitate proper maintenance.
5. Minimum Compliance Inspection requirements relative to this inspection and this report include only verification that the SSTS has tank(s) (septic tanks, lift tanks, dosing tanks, stilling tanks, etc.) which are watertight below the designed operating depth, the required separation between the bottom of the subsurface soil distribution medium and seasonally saturated soils, no back-ups of sewage into the dwelling, no discharge of sewage/effluent to the ground surface or surface waters, and no imminent safety hazards. Brian L. Humpal, Inc. does not inspect plumbing or pumps prior to the first SSTS component as these are plumbing components. The performance of exterior pumps and associated components are not inspected as they are considered to be maintenance items. Additionally, no indications relative to compliance with electrical code requirements have been made. It is recommended that any other applicable plumbing, electrical, housing, etc. inspections be performed by a qualified inspection business. Sewage back-up verification is limited to observing the floor drain area and/or the information supplied by the last occupants of the building prior to inspection. Brian L. Humpal, Inc. cannot guarantee that the information given to them by the last occupants of the building prior to inspection relative to back-ups is accurate.
4. Certification of this SSTS does not warranty future use beyond the date of the inspection. Any SSTS, old or new, can become hydraulically overloaded or discharge sewage/effluent to the ground surface as a result of more people moving into the house than were previously occupying the house, improper maintenance, heavy usage, leaking plumbing fixtures, groundwater infiltration, tree roots, freezing conditions, surface drainage problems, poor initial design, poor construction practices, or unsuitable materials used in constructing the system; the system can also simply stop working because of its age. An SSTS that has been properly designed and installed, properly maintained, and used in the manner for which the system was designed can be expected to provide service for twenty to twenty-five years on average. Some parts of the SSTS such as alarms, switches, pumps, filters, etc. will most likely have to be repaired or replaced over the lifetime of the system.
5. A Compliance Inspection is not meant to be a test or inspection for longevity of the system; a Compliance Inspection is strictly for the purpose of determining if the SSTS is protective of public health and safety, as well as the groundwater at the date and time the inspection was performed. This inspection is not intended to determine if the SSTS was originally designed or installed to past or present MPCA or other Local Government Unit code requirements. This inspection is not intended to determine if the SSTS was designed and/or installed to support the anticipated flow from the building as the use of the building may have changed since the design and construction of the SSTS due to the addition of bedrooms, occupants, etc. In addition, this inspection is not intended to determine the quality of the original SSTS design, the quality of the construction practices used while installing the SSTS, or the quality of the materials used in constructing the SSTS.
6. Brian L. Humpal, Inc. cannot guarantee the performance of SSTS products/components such as: gravelless pipe, chamber trenches, effluent filters, tanks, sewage pre-treatment components, piping, etc. Products such as gravelless pipe are no longer approved for installation in the State of Minnesota and may have a significantly reduced performance and/or life expectancy.
7. WINTER WORK: By accepting this report, it is understood that inspections conducted during winter months (approximately November 1st through April 1st) are more difficult to perform because of possible snow cover and/or ground frost. SSTS components such as tanks, maintenance covers, tank inspection pipes, subsurface distribution medium inspection pipes, and soil treatment areas are more difficult or impossible to locate due to snow cover and/or ground frost. In addition, soil borings are more difficult to perform due to snow cover and/or ground frost. Brian L. Humpal, Inc. will attempt to use the same level of standards when performing work during winter periods as when performing work during non-winter periods. However, the recipient of this report understands that because of the aforementioned considerations, the same level of standards may not be possible.
8. By accepting this report, the client understands that Brian L. Humpal, Inc. will not be responsible for any monetary damages exceeding the fee for the services provided.

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Subsurface Sewage Treatment Systems

Non-transferable

Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2019

Issued: 11/20/2018

Specialty Area(s):

Installer

Maintainer

Service Provider

Advanced Designer

Advanced Inspector

Designated Certified Individual(s):

Cert #	Name	Certification Expires:
C9633	Anthony P Scully Installer, Designer (Apprentice)	3/5/2020
C5342	Brian L Humpal Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector	10/15/2023
C9852	Christopher R Uebe Designer, Inspector	3/4/2021



520 Lafayette Road North
St. Paul, Minnesota 55155-4194

A handwritten signature in blue ink that reads 'Nick Haig'.

Nick Haig, Supervisor
Certification and Training Unit

INDIVIDUAL WASTEWATER SYSTEMS CONTRACT NO. 9109

NAME Darlene Bestland

ADDRESS 19489 St. Croix Trail N.

PERMIT NO. 344 (10B18S)

COMMUNITY Marine

PRE - CONSTRUCTION INSPECTION

DATE 5/11/87

TIME 5:10 AM
PM

INDIVIDUALS ON SITE: HOME OWNER _____

CONTRACTOR _____

INSPECTOR [Signature] and lick house

OTHER _____

ACCESS from drive

SURFACE OBSTRUCTIONS fence (maybe)

SYSTEM MODIFICATIONS Move mound east of original location with long axis in an east-west direction. Use 3ft sand base.

SURFACE OBSTRUCTIONS None

REMARKS Use 1/2 HP pump;

PHOTOGRAPHS 3 NUMBER TAKEN
A-21 SEQUENCE

INTERIM INSPECTION

DATE 5-19-87 TIME 12:20 ^{AM} ~~PM~~ INSPECTOR Phil Tuzer
 WEATHER Sunny & 70°F
 WORK PERFORMED Sand in, rock bed in, laterals laid with manifold
 LABOR & EQUIPMENT ON SITE 3 men, backhoe, 2 trucks, bobcat
 REMARKS Pointed out the rock should be 10' wide across the bottom
Should be OK when they level the laterals and add more rock.

INTERIM INSPECTION

DATE 5-19-87 TIME 3:17 ^{AM} ~~PM~~ INSPECTOR Phil Tuzer
 WEATHER Cloudy & mid 60's
 WORK PERFORMED 1 tank in and the other being put in.
 LABOR & EQUIPMENT ON SITE 3 men, backhoe, bobcat & tank truck
 REMARKS Excavated Rock = 19.4 yds³ = 25' x 3 1/2' x ?
per layer B.

PRE-COVER INSPECTION

DATE 5-20-87 TIME 9:40 ^{AM} ~~PM~~ INSPECTOR Phil Tuzer
 REMARKS Pressure sewer in measured. Everything OK.
Electrical connections & hookups need to be made. (electricians just starting)

DEFICIENCIES ① Need electrical hookup. ② Finish cover for tanks & cap risers.
③ Do final grade & soil mound

REQUIRED ACTION _____

DATE CORRECTED _____ INSPECTOR _____

POST - CONSTRUCTION INSPECTION

DATE 6-5-87 TIME 1:13 ^{AM}_{PM} INSPECTOR Richard Frye

REMARKS Mrs. Bestland did her own grading over the tanks and pressure sewer because she was tired of waiting

Soil is very brown and gapped too far apart (shrinkage?)

7-8-87 RT ① Get some fill on disturbed spots in driveway OK RT
7-23-87
 ② Need topsoil on disturbed areas around edge of mound OK RT
7-23-87

PUMP OPERATION (HR)	DATE	PUMP OPERATION (HR)	DATE

SUBSTANTIAL COMPLETION ^{80%} Richard Frye 6-5-87
 INSPECTOR DATE

Has electrical inspection 100% Richard Frye
 100% COMPLETION 7-23-87
 INSPECTOR DATE

- DEFICIENCIES
- ① Need some fill for spots in driveway? OK
 - ① Need topsoil on disturbed areas (owner took care of this herself) 7-8-87 RT
 - ② Cut inspection risers flush and cap OK RT
7-23-87
 - ③ Replace manhole cover on lift tank and cover OK RT
7-23-87
 - ④ Need center inspection riser on one slope offset 18" and extending to original soil surface OK RT
7-8-87
- REQUIRED ACTION
- ⑤ Need some final grading at W end of mound OK
 - ⑥ Soil should not be spaced apart and needs watering (use water pellets)
(7-8-87 RT, soil was replaced and is being watered by lake-bus)
- Correct above

DATE CORRECTED _____ INSPECTOR _____

PHOTOGRAPHS 2 NUMBER TAKEN
21.22 SEQUENCE

EXCAVATION

BUILDING SEWER

GRAVITY SEWER

PRESSURE SEWER

ROCK 19.4 CY

4 IN DIA CAST IRON _____ LENGTH 13 LF

SCH 40 PLASTIC 6A _____ 6B X

2 IN DIA PVC SDR26 ASTM D2241 X PE ASTM D2239 _____ LENGTH 182 LF

RISE/RUN 1/8 - 1/4 IN /1 FT _____ \geq 1/8 IN /1 FT _____ Rock: 19.4 cy gds

ADDITIONAL GRAVITY/PRESSURE SEWER _____ LF

VARIANT _____

SEPTIC TANK

SEPTIC TANK EFFLUENT PUMP STATION

MATERIAL: CONCRETE X PLASTIC _____ EXISTING _____

SIZE: 1000 X 1200 _____ 1500 X GAL VOLUME/DEPTH _____ GAL/IN
ADDITIONAL MANHOLE RINGS _____ LF BAFFLE REPLACEMENT _____

SHOP DETAIL _____

VARIANT doe's

EFFLUENT PUMP

HYDROMATIC MODEL NO: OSP33 _____ SP50H _____ SP100H _____ SKH150 _____

PUMP ACTIVATION DEPTH 34 IN SHUT-OFF DEPTH 23 IN STATIC HEAD 10 FT

VARIANT _____

CONTROL PANEL (MODEL _____)

ELECTRIC SERVICE UPGRADE/MODIFICATION _____ CONNECTION LENGTH 62 LF
DL METER SOCKET _____ STATE ELEC. INSP. APPROVAL X

MOUNT POST X HOUSE/CABIN _____

SEAL-OFF FITTING X CONDUIT LENGTH (PUMP STA. TO PANEL) 23 LF

VARIANT _____

DISTRIBUTION BOX

SHOP DETAIL _____

DROP BOX

VARIANT _____

DRAINFIELD DISTRIBUTION PIPE

4 IN DIA PLASTIC WITH 1/2 IN DIA DISCHARGE PORTS \leq 36 IN OC _____

BED

1/2 DIA PVC SDR2 ASTM D2241 WITH 7/16 DIA DISCHARGE PORTS 36 OC

MOUND

RISE/RUN \leq 4 IN /100 FT _____

FILTER AGGREGATE

3/4 - 2 1/2 IN NOMINAL DIA X

DEPTH BELOW DISTRIBUTION PIPE 9 IN _____ 12 IN X 18 IN _____ 24 IN _____

2 IN ABOVE DISTRIBUTION PIPE X

FILTER MATERIAL

4 IN DEPTH OF STRAW/HAY COVERED WITH RED ROSIN PAPER _____

MIRAFI 140N X

SYSTEM DIMENSIONS

WIDTH: 30 IN TRENCH 7 FT OC _____

36 IN TRENCH 7 1/2 FT OC _____

_____ FT

PIPE NUMBER/LENGTH _____ LF

MIN/MAX DEPTH _____ IN

VARIANT _____

LANDSCAPING

FINISHED GRADE X

SOD/SEED ACCEPTANCE _____

INSPECTOR Bill [Signature]

DATE 7-23-87

CRUSHED AGGREGATE BASE COURSE _____ TON

CONCRETE _____ CY BITUMINOUS PAVING _____ TON

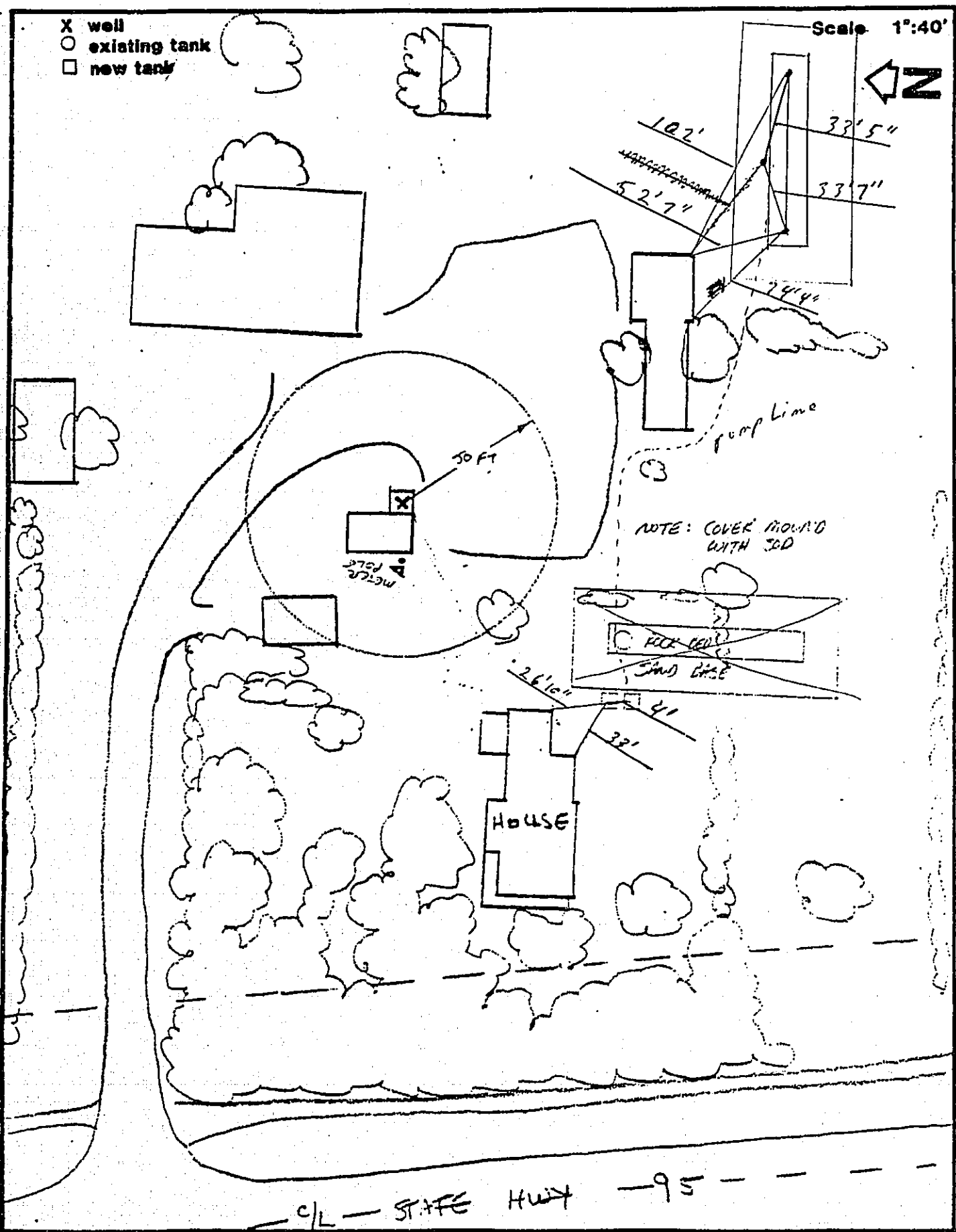
VARIANT _____

ITEM	LINE	ITEM	QUANTITY	UNIT COST	CLASSIFICATION		AMOUNT	
					EA	WC	MPCA	ADD
Septic Tank-1000 Gal.		EA		/EA			\$	\$()
Septic Tank-1200 Gal.		EA		/EA			\$	\$()
Septic Tank 1500 Gal.		EA		/EA			\$	\$()
Septic Tank-Pump Sta.		EA		/EA			\$	\$()
Baffles		LF		/LF			\$	\$()
Manhole Ring		LF		/LF			\$	\$()
Gravity Sewer		LF		/LF			\$	\$()
Pressure Sewer		160 LF	7.00	/LF	GI		\$ 1120.00	\$()
Frostproof Line		LF		/LF			\$	\$()
		LF		/LF			\$	\$()
Rock Excavation		CY		/CY			\$	\$()
		CY		/CY			\$	\$()
Crushed Aggregate		TON		/TON			\$	\$()
		TON		/TON			\$	\$()
Concrete		CY		/CY			\$	\$()
		CY		/CY			\$	\$()
Bituminous		TON		/TON			\$	\$()
		TON		/TON			\$	\$()
Modify 100 amp		EA		/EA			\$	\$()
Modify 60 amp		EA		/EA			\$	\$()
Upgrade 60 amp		EA		/EA			\$	\$()
Underground Conduit		EA		/EA			\$	\$()
					TOTAL		\$ 1120.00	\$()
		SUBTOTAL			GE		\$	\$()
					GI		\$ 2250.75	\$()
					GE		\$	\$()
					GI		\$	\$()
		TOTAL					\$ 2250.75	\$()

201-10B 135

- X well
- existing tank
- new tank

Scale 1"=40'



C/L — STATE HWY — 95 — — —

FEE: \$ 20.00

WASHINGTON COUNTY, MINNESOTA

Sewage Treatment Permit No. 344(106185)

Inspection of Installation Must Be Made By the Building Official Before Any Portion of System Is Covered
Contact Planning Department, 439-3220 x-176, 24 HOUR NOTICE REQUIRED

Owner DARLENE A. BESTLAND 91030 - 0250

Property Description Pt Govt Lot 6 Sec 30 New Scandia Twp

Property Address 19489 St. Croix Trail N., Marine

Use of Building: 1 FAMILY RES Flow Rate: 5 BEDROOMS Percolation Rate: 5 mpi

Septic Tank 1500 Gal. Liquid Capacity Lift Station (if needed) 1000 Gal.

Type of System: TANK AND MOUND WITH PRESSURE DISTRIBUTION

Absorption Trench — Square Feet 630 Lineal Feet 63 Width 10 FT

Depth of Rock Below Lines 9 Inches, Above Lines 2 Inches

Depth of Trench From Existing Grade — Minimum - Inches, Maximum - Inches

Recommended Number of Lines - (Note: Maximum Length of Individual Line Is 100 Feet.)

Minimum Spacing of Lines - Ft. Center to Center

Special Conditions Required minimum basal width is 40 Ft with
15 FT extending from rock bed sides. Depth of sand base is to
be 3 FT. Site plan and pressure distribution specifications
follow.

PERMIT: Permission is hereby granted to the above named applicant to perform the work described in the application to the minimum specifications shown above and per attached site plan. This permit is granted upon express condition that the person to whom it is granted, and his agents, employees and workmen shall conform in all respects to ordinances of Washington County, Minnesota. This permit may be revoked at any time upon violation of any said ordinance, and permit shall be void if work is not commenced with six (6) months.

INSTALLER MUST HOLD CURRENT SEPTIC INSTALLER LICENSE WITH WASHINGTON COUNTY.

Approved: Robert W. Gately Date 4/17/07
Zoning Administrator/Authorized Agent

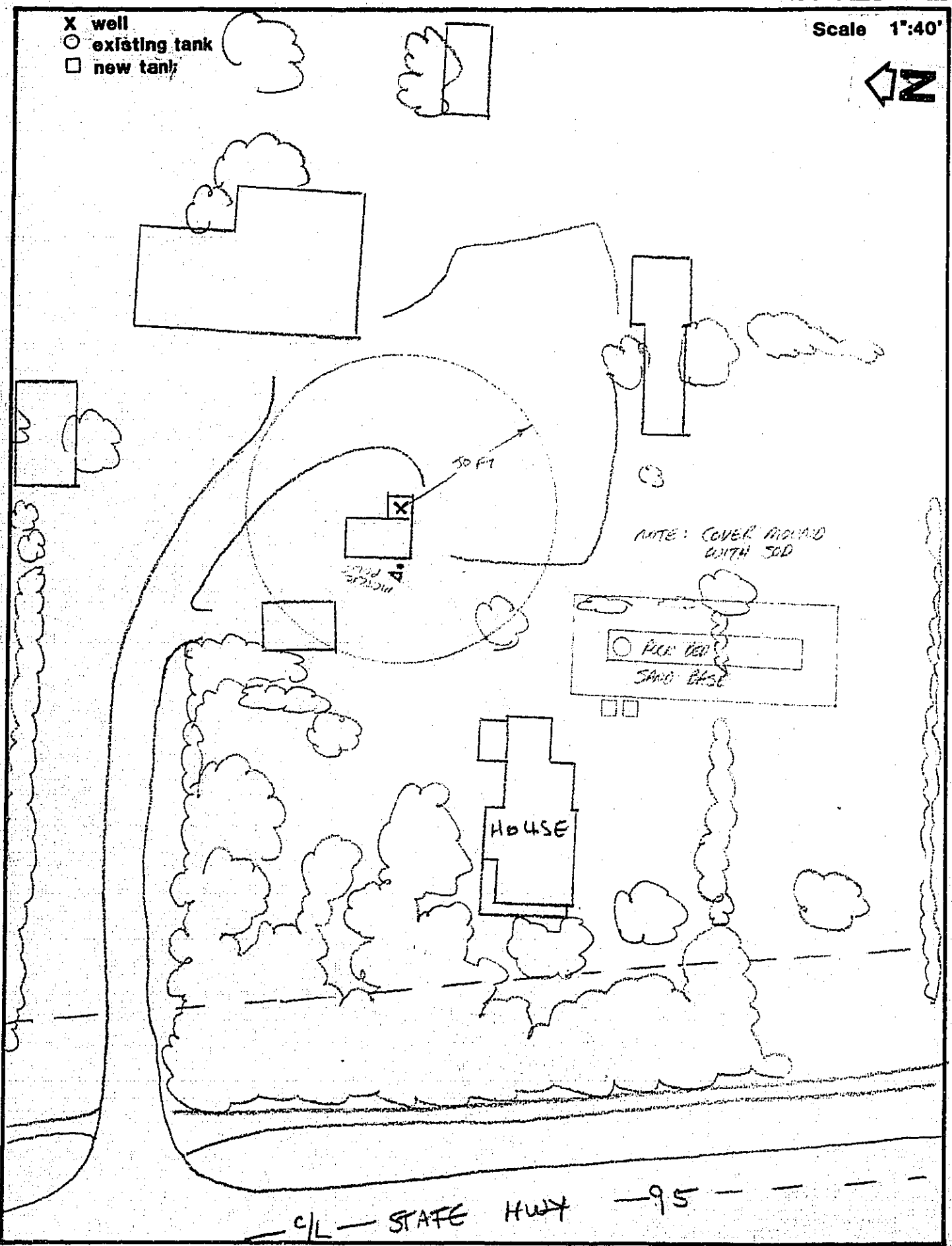
Comments SYSTEM SUBSTANTIALLY COMPLETE 5/20/07

Installation Approved Robert W. Gately Date 7/23/07
Inspector

201-10B 185

- X well
- existing tank
- new tank

Scale 1"=40'



PRESSURE DISTRIBUTION SYSTEM

1. Use 2 inch pressure line from pump to system.

Use 2 inch diameter manifold pipe with ends capped.

Use 3 perforated laterals 63 feet long spaced 40 inches on center.

Use 1/2 inch diameter perforated laterals with 3/16 inch holes drilled 30 inches on center installed level with the perforations downward.

2. Pump must deliver at least 20 G.P.M. with at least 17 feet of total head.

3. Set pump turn on switch to deliver 194 gallons of effluent per cycle (no more than 25% of daily sewage flow).

Application Fee: \$50.00

"201" # NS-185

APPLICATION FOR PERMIT TO INSTALL SEWAGE TREATMENT SYSTEM

Washington County Planning Department
14900 - 61st Street North
Stillwater, MN 55082

APR 30 1984

Name (Owner)	Phone
<u>Darlene A. Bestland</u>	<u>433-3186</u>
Address	
<u>19489 St Croix Trail North, Marine, Mn</u>	
Legal Description	
Use of Building	Number of Bedrooms
<u>Private Home</u>	<u>5</u>
What is the depth of the well? <u>80</u> ft.	
Is there a basement? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <u>under 2 rooms only.</u>	
If yes, please answer the following:	
What fixtures are in the basement? Floor Drain _____ Laundry Tub _____	
Toilet _____ Shower _____ None <input checked="" type="checkbox"/>	
Does the main sewer line exit under the basement floor? Yes _____ No <input checked="" type="checkbox"/>	
How deep is basement floor (sewer line) in relation to outside ground level?	
6' deep _____ 4' deep _____ 2' deep _____ Level _____ Unknown _____	

Conditions of Permit

Agreement: The undersigned hereby makes application for a permit to install or extend a sewage treatment system and agrees that all such work shall be done in strict accordance with the ordinances and regulations of the County of Washington, State of Minnesota. Applicant further agrees to provide access, at reasonable times, to the Zoning Administrator or his agent for the purpose of performing inspections required along with the installation of the system. The applicant further agrees, for himself and subsequent owners of the subject property, to allow the Zoning Administrator and his agents to enter upon the above-described property, after the installation of the sewage treatment system has been completed, at all reasonable times to conduct soil tests and surveys and to construct, reconstruct, inspect, repair or maintain the sewer system.

April 26, 1984
Date

Darlene A. Bestland
Signature of Applicant

No. 10B185

Date on Site 3/12/80

Name: Darlene Bestland

Address: 19489 St. Croix Tr. 71.

Township: New Scandinavia

CHECK LIST

5 Number of Bedrooms _____

70 Basement Drain _____

5 Percolation Rate ft 14"

Depth of Mottling B₁ 12" B₂ 8" B₃ 8"

NS Area Higher Than House 2 1/2' below 1st floor

Square Area Available 60 x 40

Well

NOTES

✓ Need to check for additional dirt

CONSTRUCT 630 SQ. FT. TREATMENT MOUND

ROCK BED 63 X 10

BASE AREA 88 X 35

11/7/84 AREA OK FOR MOUND

Level area.

PLANNED SYSTEM

Standard

Bed System

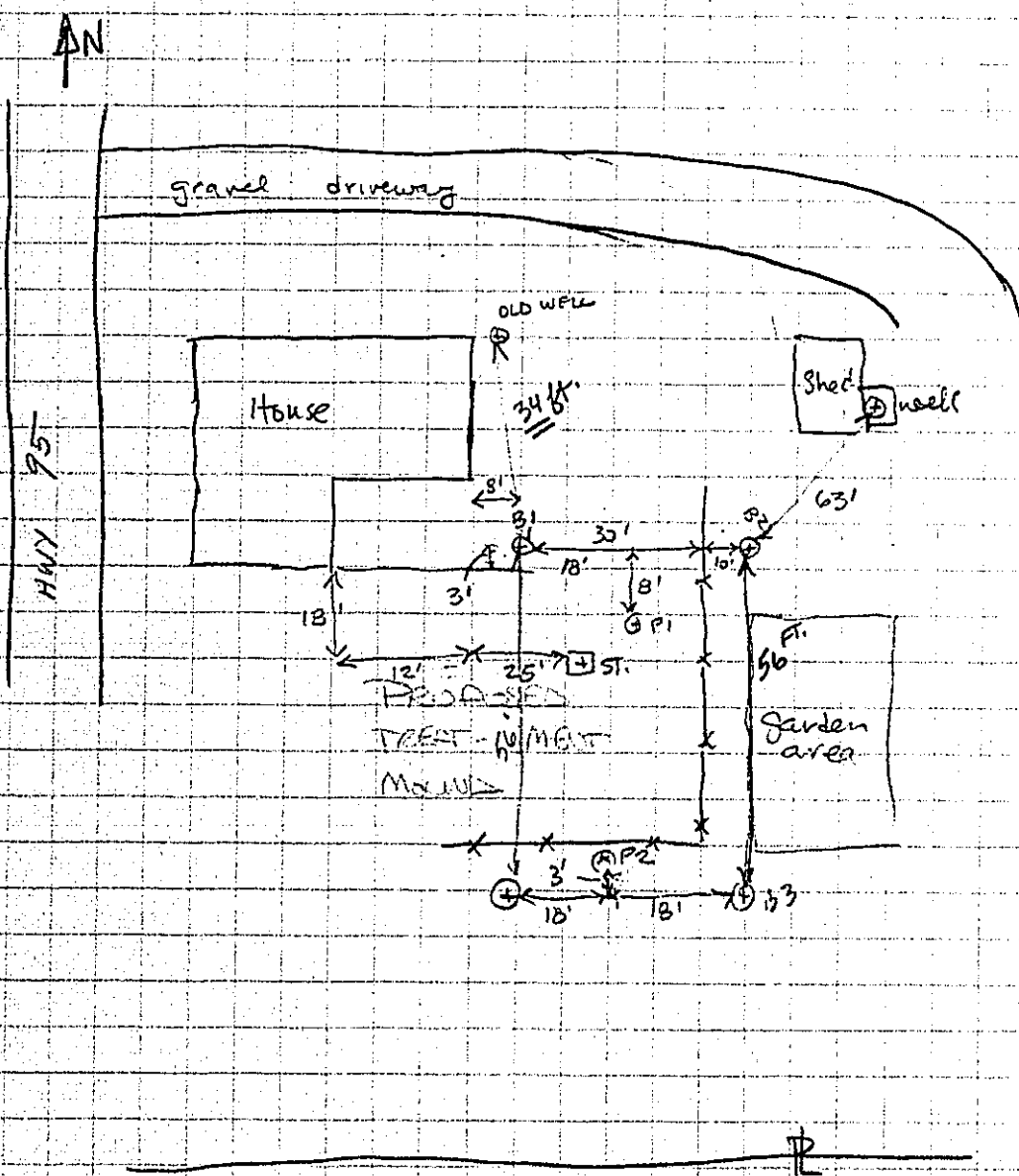
X Mound System 2' BASE

✓ Lift Station pressure distribution; 11' of elevation head.

System Off Site

10B-185
D. BESTLAND

4/23/84



Notes:

1. Note old well near house
- Could move drainfield further south but may have to pump
2. Proposed area about 2 1/2 ft. below F.F. level.
↑
Drainfield
3. Approx Area 40 x 60 Ft.

WASHINGTON COUNTY JOINT COMMUNITIES WASTEWATER FACILITIES PROJECT

Logs of Soil Borings

Location Bestland #106-125

Borings made by Brian Barma / Cheryl Janaki

Date 4-24-89

Depth, in feet	Boring number <u>1</u>	Depth, in feet	Boring number <u>2</u>
0" —	DARK BROWN SANDY LOAM	0" —	Dark Brown sandy loam
1" —	DARK BROWN Silty Sand	8" —	Dark Brown Fine silty sand
1" —	same material traces of mottling	18" —	End large stone mottling
2" —		2" —	
2'6" —	Reddish BROWN Fine silty sand	3" —	
3" —		4" —	
3'4" —	yellowish Brown mottled sandstone	5" —	
4" —	End-large stones	6" —	
5" —		7" —	
6" —		8" —	
7" —			
8" —			
End of boring at <u>4'</u> feet. Standing water table: Present at _____ feet of depth, _____ hours after boring. Not present in boring hole <input checked="" type="checkbox"/> .		End of boring at <u>16"</u> feet. Standing water table: Present at _____ feet of depth, _____ hours after boring. Not present in boring hole <input checked="" type="checkbox"/> .	
Mottled soil: Observed at <u>12"</u> feet of depth. Not present in boring hole _____. Observations and comments:		Mottled soil: Observed at <u>8"</u> feet of depth. Not present in boring hole _____. Observations and comments:	

WASHINGTON COUNTY JOINT COMMUNITIES WASTEWATER FACILITIES PROJECT

Logs of Soil Borings

Location Bestkind

Borings made by Lanna

Date 5/23/84

Depth, in feet	Boring number <u>2A</u>	Depth, in feet	Boring number _____
	<u>10 Ft East of Boring 2</u>		
1 —	<u>DARK BROWN Silty LOAM</u>	1 —	
18" —	<u>DARK BROWN Silty Sand, w/some mottling</u>	2 —	
2 —	<u>End - Large stones</u>	3 —	
3 —		4 —	
4 —		5 —	
5 —		6 —	
6 —		7 —	
7 —		8 —	
8 —			
End of boring at <u>18"</u> feet. Standing water table: Present at _____ feet of depth, _____ hours after boring. Not present in boring hole <u>X</u> . Mottled soil: Observed at <u>8"</u> feet of depth. Not present in boring hole _____. Observations and comments:		End of boring at _____ feet. Standing water table: Present at _____ feet of depth, _____ hours after boring. Not present in boring hole _____. Mottled soil: Observed at _____ feet of depth. Not present in boring hole _____. Observations and comments:	

WASHINGTON COUNTY JOINT COMMUNITIES WASTEWATER FACILITIES PROJECT

Logs of Soil Borings

Location Bellevue #08-185

Borings made by Bruce Korman / Chuck Orstedt Date 1-24-84

Depth, in feet	Boring number <u>3</u>	Depth, in feet	Boring number <u>4</u>
1 —	8" — Dark Brown Sandy LOAM Dark Reddish Brown Silty Sand	1 —	8" — Dark Brown Sandy LOAM Dark Brown Silty Sand
2 —	↓ yellowish Brown mottled sandstone	2 —	18" — medium Brown clayey sand w/ broken sandstone
3 —	30" — END - Large stones	3 —	2'4" — END - Large stones & traces of mottling
4 —		4 —	
5 —		5 —	
6 —		6 —	
7 —		7 —	
8 —		8 —	

End of boring at 2'6" feet.

Standing water table:

Present at _____ feet of depth,
_____ hours after boring.

Not present in boring hole X.

Mottled soil:

Observed at 2' feet of depth.

Not present in boring hole _____.

Observations and comments:

End of boring at 2'4" feet.

Standing water table:

Present at _____ feet of depth,
_____ hours after boring.

Not present in boring hole _____.

Mottled soil:

Observed at 18" feet of depth.

Not present in boring hole _____.

Observations and comments:

PERCOLATION TEST DATA SHEET

Test hole location D. Bestland #10B-185 Hole number 1
 Date test hole was prepared 5-8-84 Depth of hole bottom, 14 inches
 Diameter of hole, 9 inches.

Soil data from test hole:

Depth, inches	Soil texture
<u>0-14"</u>	<u>medium Brown Sandy silt</u>

Method of scratching sidewall spiral trowel
 Depth of pea-sized gravel in bottom of hole, 2 inches
 Date and hour of initial water filling 5-8-84 10:00 A.M., Dry at 10:11 A.M.
 Depth of initial water filling, 12 inches above hole bottom
 Method used to maintain at least 12 inches of water depth in hole for at least 4 hours _____
 Percolation test readings made by Brian Kemna/Chuck Janski
 MPCA certification number 00153, on 5-8-84 starting date
1:10 ^{a.m.} _{p.m.} Maximum water depth above hole bottom during test, 8 1/8" (date) inches

Time	Time Interval, Minutes	Measurement, inches	Drop in water level, inches	Percolation rate, min. per inch	Remarks
1:10		<u>5 3/4"</u>			Fill
1:15	<u>5</u>	<u>4 1/4"</u>	<u>1 1/2"</u>	<u>3.3</u>	
1:15		<u>5 7/8"</u>			Refill
1:20	<u>5</u>	<u>4 1/2"</u>	<u>1 1/2"</u>	<u>3.6</u>	
1:20		<u>5 3/4"</u>			Refill
1:25	<u>5</u>	<u>4 3/4"</u>	<u>1"</u>	<u>5</u>	
1:25		<u>5 3/4"</u>			Refill
1:30	<u>5</u>	<u>4 3/4"</u>	<u>1"</u>	<u>5</u>	
1:30		<u>5 3/4"</u>			Refill
1:35	<u>5</u>	<u>4 1/4"</u>	<u>1"</u>	<u>5</u>	End
			<u>5 x 3 = 15 = 5</u> <u>3</u>		

Percolation rate = 5 ^{BB to Bottom - 33 1/2} minutes per inch.
8" in hole = 5 3/4" or perc.

PERCOLATION TEST DATA SHEET

Test hole location D. Bestland #10B-185 Hole number 2
 Date test hole was prepared 5-8-87 Depth of hole bottom, 14 inches
 Diameter of hole, 8 inches.

Soil data from test hole:

Depth, inches	Soil texture
<u>0-14"</u>	<u>Medium Brown Sandy Silt</u>

Method of scratching sidewall spiked tattle

Depth of pea-sized gravel in bottom of hole, 2, inches

Date and hour of initial water filling 5-8-87 10:01 a.m. Done at 10:12 a.m.

Depth of initial water filling, 12 inches above hole bottom

Method used to maintain at least 12 inches of water depth in hole for at least 4 hours

Percolation test readings made by Brian Kemna / Chuck Panche

MPCA certification number 00153, on 5-8-87 starting date

1:12 a.m. Maximum water depth above hole bottom during test, 8 1/4" inches

Time	Time Interval, Minutes	Measurement, inches	Drop in water level, inches	Percolation rate, min. per inch	Remarks
1:12		6 1/4"			Fill
1:17	5	4 1/4"	2	2.5	
1:17		6 1/2"			Refill
1:22	5	5"	1 1/2"	3.3	
1:22		6 1/4"			Refill
1:27	5	4 7/8"	1 3/8"	3.6	
1:27		6 1/4"			Refill
1:32	5	4 7/8"	1 3/8"	3.6	End
			$3.3 + 3.6 + 3.6 = 10.5$	$10.5 / 3 = 3.5$	

Percolation rate = 3.5 minutes per inch. BB to bottom - 36 1/2"
8" in hole = 6 1/4" on perc.

WASHINGTON CO. INDIVIDUAL WASTE SYSTEMS
CONTRACT NO. _____

LOCATION DESCRIPTION

Permit No. 344 Location 10B-185 (NEW SCANDIA)
Address 19489 ST. CROIX TR. N. - MARINE

ELECTRICAL SERVICE

Mounting: Bldg. _____ Pole X Other _____
Underground _____ Overhead X
Conduit _____ Cable RH
Size: 60A X 100A _____ Other _____
Condition: Good _____ Fair _____ Poor X

Comments:

SERVICE SHOULD BE REMOVED
& REPLACED WITH A 100A SERVICE
AND A DOUBLE WIRE METER TO
SERVE THE NEW PUMP. &
PUMP IS LOCATED ON OPPOSITE
SIDE OF HOUSE FROM POLE.



10B-185

96-91030-0250
David N. Bestland & Darlene
Route 1, Box 11
Marine on St. Croix, MN 55047

Lake (if applicable) _____
Township N. SCANDIA
Legal Des. PT GOVT LOT 6 SEC 30-32-17

DESK TOP STUDY

Lot Size ~6 A Depth _____ Width _____
Soils Map Information 100B
Perc Rate 10-100 Groundwater > 6' Bedrock 12-20"
Permit No. _____ Date of Installation _____
Type of System _____
Age of System _____ Well Depth _____ Well Separation _____
Known Problems _____

RESULTS

inconclusive no action needed obvious problem

ON SITE INSPECTION

Date 9/14/81 Interviewed Resident (name) Mrs B + daughters

1. Type of septic system and size ST/DW

2. Location of system South of house

3. Location of well east of house in dump road
Depth _____ Separation @ 75'

4. Problems (direct evidence):
Surface failure Sewage backup
Flowing effluent pipe Full dry well

5. Problems (inferred evidence):
High water level Well isolation distance
Lot less than 10,000 sq.ft. Holding tank
Bedrock (shallow) Slowly permeable soil
Maintenance Substandard system

6. Comments full system
pump every month - won't drain

RESULTS

Obvious Problem No action needed
Inferred Problem No action needed (inferred)

BORING RESULTS (if necessary)

<u>Depth of water</u>	<u>Mottling</u>
<u>Depth of Bedrock</u>	<u>Possible non-perc</u>

POSSIBLE SOLUTIONS

SITE PLAN IF PROBLEM



WASHINGTON COUNTY

PLANNING DEPARTMENT

COURTHOUSE • 14900 61ST STREET NORTH • STILLWATER, MINNESOTA 55082
612/439-3220

RECEIVED
FEB 18 1986

Robert J. Lockyear
Planning Coordinator
Allan R. Goodman
Building Official

TO: Barlene Bestland Date: 11 February 1986
19489 St. Croix Trail N. "201" Ident. No. 108185
Main on St. Croix, MN 55047 Property Desc. East of Coor't. Lot 6
in Section 30
Community: New Scandia Township

RE: "201" SANITARY SEWER IMPROVEMENT PROJECT

The following information is necessary to proceed with the design and installation of a sewage treatment system on the above-described property. Please return this note and the requested information as soon as possible.

Well Depth: Water supply wells less than fifty (50) feet in depth and not encountering at least ten (10) feet of impervious material require a minimum 100 foot setback from the soil treatment area of an onsite sewage treatment system. Any other water supply well requires a minimum 50 foot setback. If the current water supply well has been installed after 23 May 1984, indicate the precise location of the new well on the attached site plan.

Well Location: Indicate the precise location of the well on the attached site plan.

The number of tanks in your existing septic system is _____.
Indicate their precise location(s) on the attached site plan.

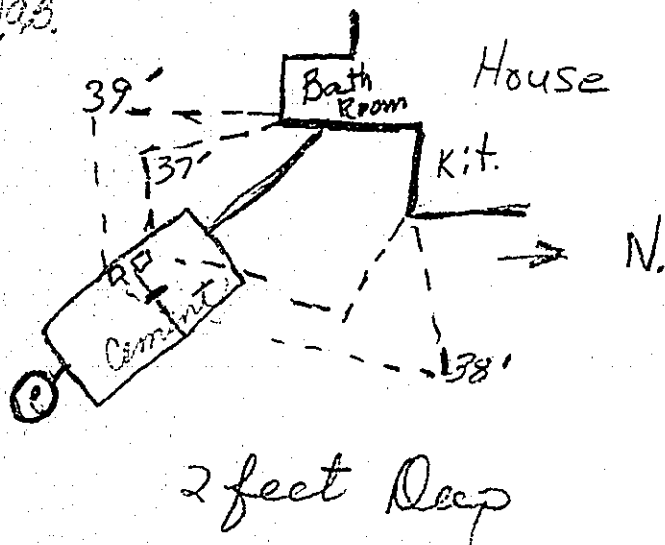
Other: _____

Thank you for your prompt reply.

Sincerely,

Robert W. Whitmyer
Wastewater Treatment System Inspector

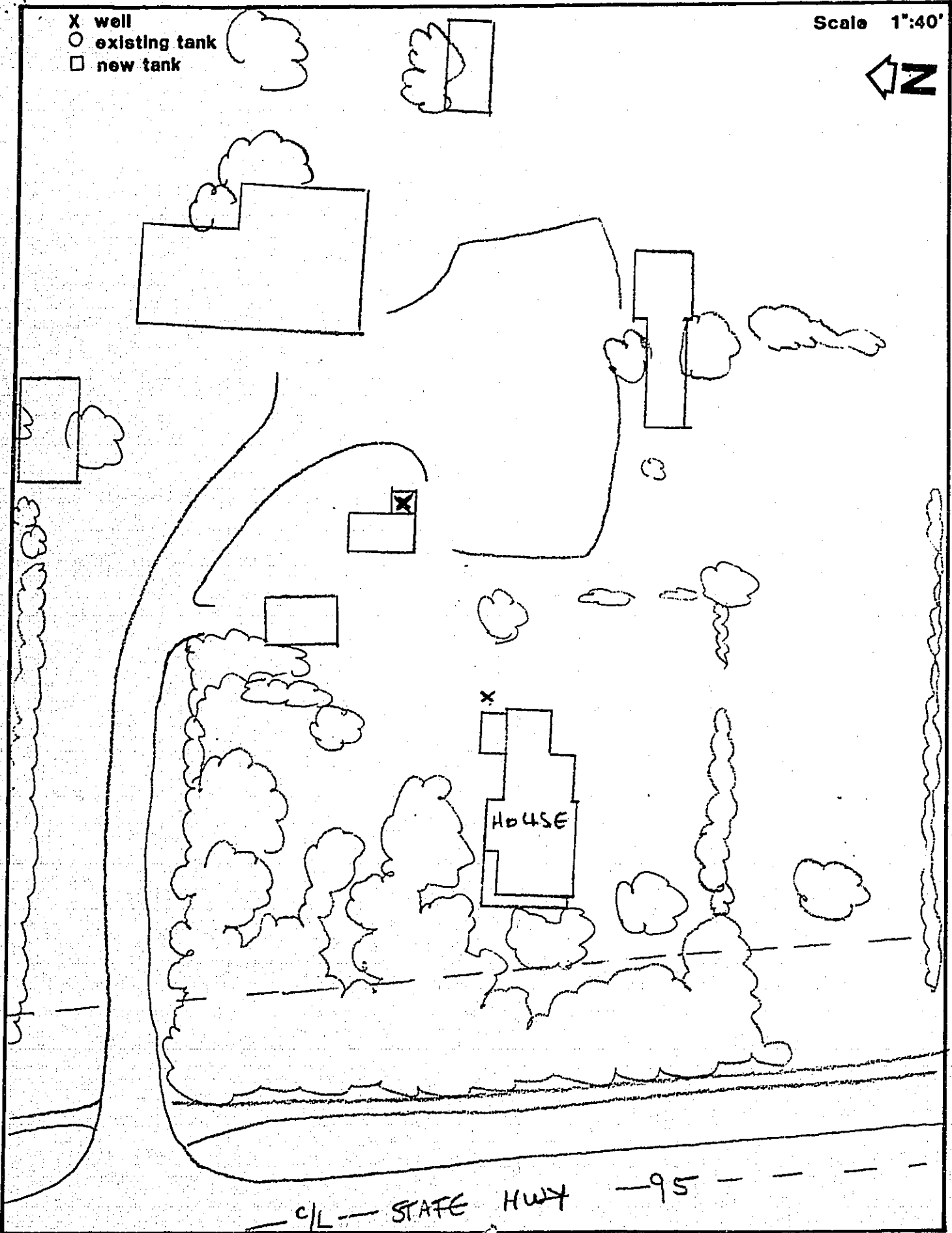
Olson's drew this when they
cleaned my tank. sorry, the best
I can do, D.B.



201#10B185

- X well
- existing tank
- new tank

Scale 1":40'



"201" PROBLEMS

Owner's Name: Debra Pestl
Address: 19489 St. Croix Ln.

Date of Call: _____

Caller's Name: _____

Address: _____

Location: _____

4,702.81

Phone: _____

201 #: 9109 344(10B185)

Person Taking Call: _____

FACTS

system got moved - added Pressure sewer + stack -

seems that the P.O. said she wanted system moved
but not as far as they moved it.

she indicates hardship because of income. -
wishes deferred.

SOLUTION

Inspector: _____ Date: _____

we should check to see if ~~necessary~~
2800 assessment for moving

in checking with staff - owner requested move to behind barn
to some clotheslines, Fence + Garden + trees -
no adjustment - RGT - 7/26

Contractors Called: _____