



Inspect Minnesota & Midwest Soil Testing

PO Box 10853
White Bear Lake, MN 55110
(651) 492-7550
Brian@Midwestsoiltesting.com

INVOICE

BILL TO

Mr. Brian Solos
1576 Headwater Lane
Woodbury, MN 55129

INVOICE # 2941

DATE 09/28/2017

DUE DATE 10/13/2017

TERMS Net 15

| ACTIVITY | AMOUNT |
|--|-----------------|
| Septic System Compliance Inspection and Report - Main House | 345.00 |
| Washington County Point Of Sale Compliance Inspection Filing Fee - Main House | 50.00 |
| Septic System Compliance Inspection and Report - Guest House | 345.00 |
| Washington County Point Of Sale Compliance Inspection Filing Fee - Guest House | 50.00 |
| Discount (Multiple Homes) | -200.00 |
| <hr/> | |
| BALANCE DUE | \$590.00 |

Inspect Minnesota & Midwest Soil Testing

MPCA Licensed Advanced Designers, Inspectors, & Service Providers

September 28, 2017

Mr. Brian Solos
1576 Headwater Lane
Woodbury, MN 55129

Subject: Septic System at 991 Neal Ave N, West Lakeland, MN

Dear Brian:

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. Chris LeClair – Washington County

Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: 9/11/17 & 9/25/17

Time: 10:30 AM

Owner: Brian Solos

Inspection Address: 991 Neal Ave N, West Lakeland Twp, MN 55082 (Main House)

REPORT SUMMARY

I have performed an “MPCA Compliance Inspection” on this system, have reviewed the history of the system with the owner, Brian Solos, and have reviewed the original design/permit records on file at Washington County. This system consists of a two plastic septic tanks and a chamber trench drainfield.

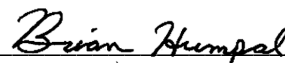
A leaking septic tank was replaced on 9/25/2017.

It should be noted that there is a separate system that serves the guest house. A separate inspection and report has been performed for that system.

Predicated on my inspection of the system, my review of the history of the system with the owner, 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.



Brian Humpal



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): 9/25/2017

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: 991 Neal Ave N, West Lakeland, MN (Main House) Reason for inspection: Property Sale

Property owner: Brian Solos Owner's phone: 651-269-5825

or
Owner's representative: _____ Representative phone: _____

Local regulatory authority: Washington County Regulatory authority phone: 651-430-4052

Brief system description: Two plastic septic tanks and chamber trench drainfield.

Comments or recommendations:

It should be noted that there is a separate system that serves the guest house. A separate inspection and report has been performed for that system. A leaking tank was replaced on 9/25/2017

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 Certification number: L5342

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.
A leaking septic tank was replaced on 9/25/2017,

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: 2002 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 9}
Inspect Minnesota & Midwest Soil Testing
Subsurface Sewage Treatment System Owner/Property Information

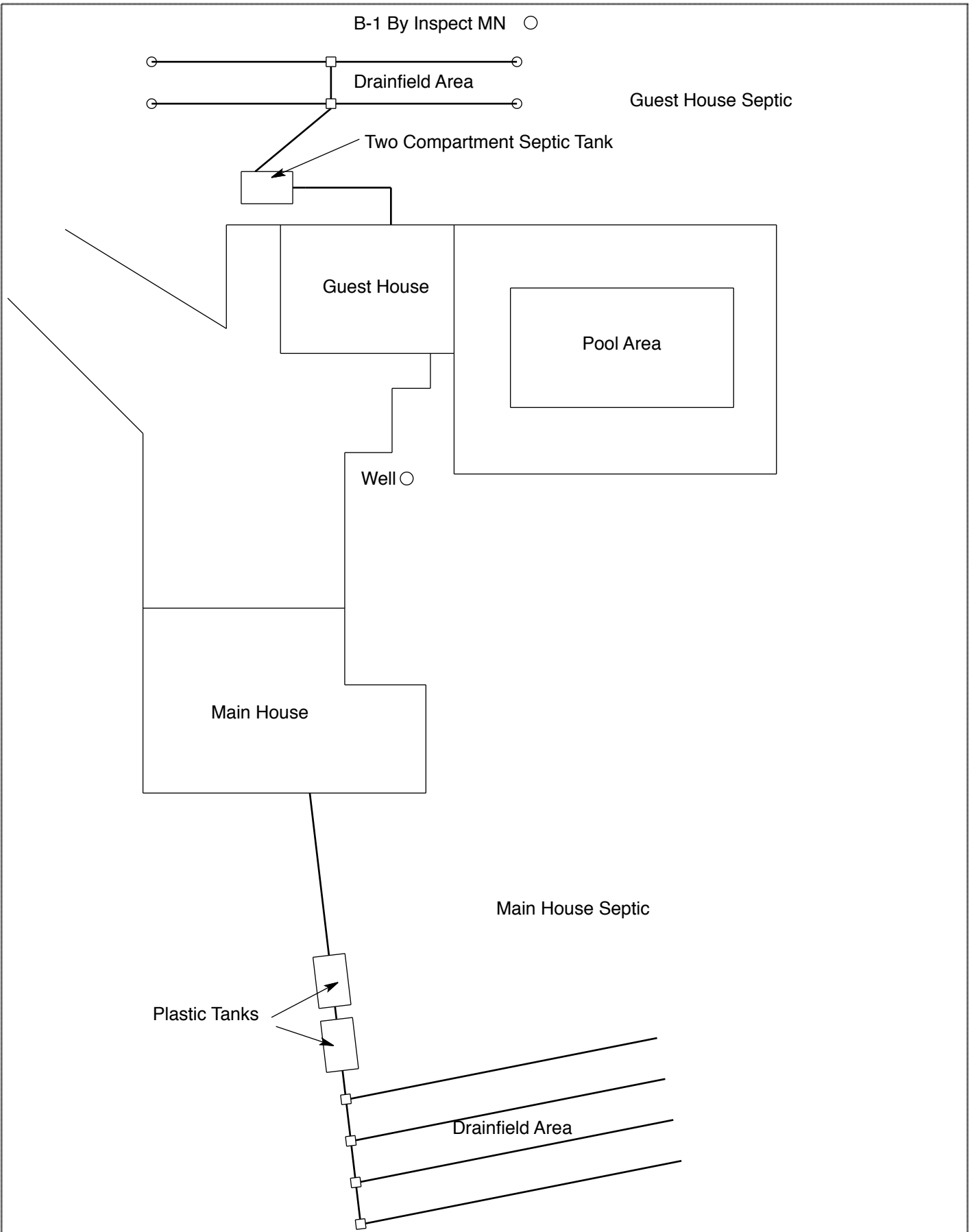
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

| | | | |
|--|---|---|--|
| Date of Inspection: 9/11/17 & 9/25/17 | | Time: 10:30 PM | |
| Property Address: 991 Neal Ave N, West Lakeland, MN (Main House) | | Zip: 55082 | |
| Property Owner: Brian Solos | | Phone: 651-269-5825 | |
| Tank(s) <input checked="" type="checkbox"/> Septic 2 <input type="checkbox"/> Aerobic <input type="checkbox"/> Lift <input type="checkbox"/> Holding <input type="checkbox"/> Other: | Tank(s)Material <input type="checkbox"/> Fiberglass <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Metal <input type="checkbox"/> Concrete <input type="checkbox"/> Block <input type="checkbox"/> Other _____ | Soil Treatment System <input type="checkbox"/> Rock trench <input type="checkbox"/> Gravelless trench <input checked="" type="checkbox"/> Chamber trench <input type="checkbox"/> Seepage bed <input type="checkbox"/> Mound <input type="checkbox"/> At-grade | Other <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 checked="" type="checkbox"/> Yes <input 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: 1956 | Year septic installed: 2002 | Tank size (gals.): 2-1000 | |
| How long has seller owned the property? 2016 | | Number of residents in home? Unknown | |
| Number of bedrooms? 3 | Are all floors drained by gravity? Y | | |
| Garbage disposal? N | Whirlpool bath? N | | |
| More than one system (laundry, etc.)? N | | | |
| Does this property have any footing drain tiles connected to the septic system? N | | | |
| Are any buildings on this property such as garages or out-buildings connected to this system? N | | | |
| Are there any additional systems on this property serving other buildings? There is a separate system for the guest house. | | | |
| Location of septic system on lot? North Side | | | |
| Location of water well on lot? South 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? N If yes, explain: | | | |
| When was the system last pumped? Unknown | | Name of pumper: Unknown | |
| How often pumped in previous years? Unknown | | Is system on a monitoring plan? N | |
| Have you received notices from any government agency concerning this system? N | | | |
| Is your property located in a shoreland management area? N | | | |
| Do you have any additional information that should be given to the new owner? N | | | |

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: Brian Solo's Signature On File

Date: 09/11/2017



NO SCALE

B-2 By Inspect MN ○

991 Neal Ave N, West Lakeland Twp, MN 55082

Log Of Soil Borings

| | | | |
|-----------------------------|---|--|--|
| Location of Project: | | 991 Neal Ave N, West Lakeland Twp, MN 55082 (Main House) | |
| Borings Made By: | | Inspect Minnesota | Date: 9/11/17 |
| Auger Used: | | Hand/Bucket/Post Hole Digger | Classification System: USDA |
| Boring Number: | | 2 | Boring Number: |
| Surface Elevation of Boring | 6" below last drainfield trench | | Surface Elevation of Boring |
| Depth In Inches | <u>Soils Encountered</u> | | Depth In Inches |
| 0-10 | 10YR 2/2 Loam | | |
| 10-38 | 10YR 4/3 Loam With Gravel ≈20% Rock & Cobbles | | |
| 38-67 | 10YR 4/4 Medium Coarse Sand With Gravel ≈15-20% Rock Fragments Refusal At 67" | | |
| 67" | Depth To End Of Boring Or Redox | | Depth To End Of Boring Or Redox |
| +6" | Elevation Of Boring Relative To System | | Elevation Of Boring Relative To System |
| -29" | Depth To Bottom Of Distribution Media | | Depth To Bottom Of Distribution Media |
| ≥44" | Of Separation | | Of Separation |
| End Of Boring At: | | 67" | End Of Boring At: |
| Redox Present At: | | None | Redox Present At: |
| Standing Water Present At: | | None | Standing Water Present At: |

Bottom Of Distribution Medium At: 29 Inches

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.

Subsurface Sewage Treatment Systems

Non-transferable

Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2017

Issued: 11/29/2016

Specialty Area(s):

- Installer
- Maintainer
- Service Provider
- Advanced Designer
- Advanced Inspector

Designated Certified Individual(s):

| Cert # | Name | Certification Expires: |
|--------|---|------------------------|
| C5342 | Brian L Humpal Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector | 10/15/2017 |
| C9852 | Christopher R Uebe Designer, Inspector | 3/4/2018 |



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

Steven Giddings

Steven Giddings, Manager
 Prevention and Solid Waste Management Section

Inspect Minnesota & Midwest Soil Testing

P.O. Box 383 Hugo, MN 55038

Brian Humpal

651-492-7550/Brian@midwestsoiltesting.com

MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: 9/11/17 & 9/25/17

Time: 11:00 AM

Owner: Brian Solos

Inspection Address: 991 Neal Ave N, West Lakeland Twp, MN 55082 (Guest House)

REPORT SUMMARY

I have performed an “MPCA Compliance Inspection” on this system, have reviewed the history of the system with the owner, Brian Solos, and have reviewed the original design/permit records on file at Washington County. This system consists of a pre-cast two-compartment septic tank and a rock trench drainfield.


Although not a compliance criteria, it should be noted that some of the system may be located on the adjacent property.

It should be noted that there is a separate system that serves the main house. A separate inspection and report has been performed for that system.

Predicated on my inspection of the system, my review of the history of the system with the owner, 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.



Brian Humpal



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): 9/25/2017

[X] 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: 991 Neal Ave N, West Lakeland, MN (Guest House) Reason for inspection: Property Sale

Property owner: Brian Solos Owner's phone: 651-269-5825

Owner's representative: Representative phone:

Local regulatory authority: Washington County Regulatory authority phone: 651-430-4052

Brief system description: A pre-cast two-compartment septic tank and a rock trench drainfield.

Comments or recommendations:

It should be noted that some of the system may be located on the adjacent property. It should be noted that there is a separate system that serves the main house. A separate inspection and report has been performed for that system.

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 Certification number: L5342

Business name: Inspect Minnesota, Midwest Soil Testing License number: L2896

Inspector signature: Brian Humpal Phone number: 651-492-7550

Necessary or Locally Required Attachments

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

Property address: 991 Neal Ave N, West Lakeland, MN (Guest House)

Inspector initials/Date: 09/25/2017 *BA***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.

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:

Property address: 991 Neal Ave N, West Lakeland, MN (Guest House)

Inspector initials/Date: 9/11/2017 BA

4. Soil Separation – Compliance component #4 of 5

Date of installation: 2008 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

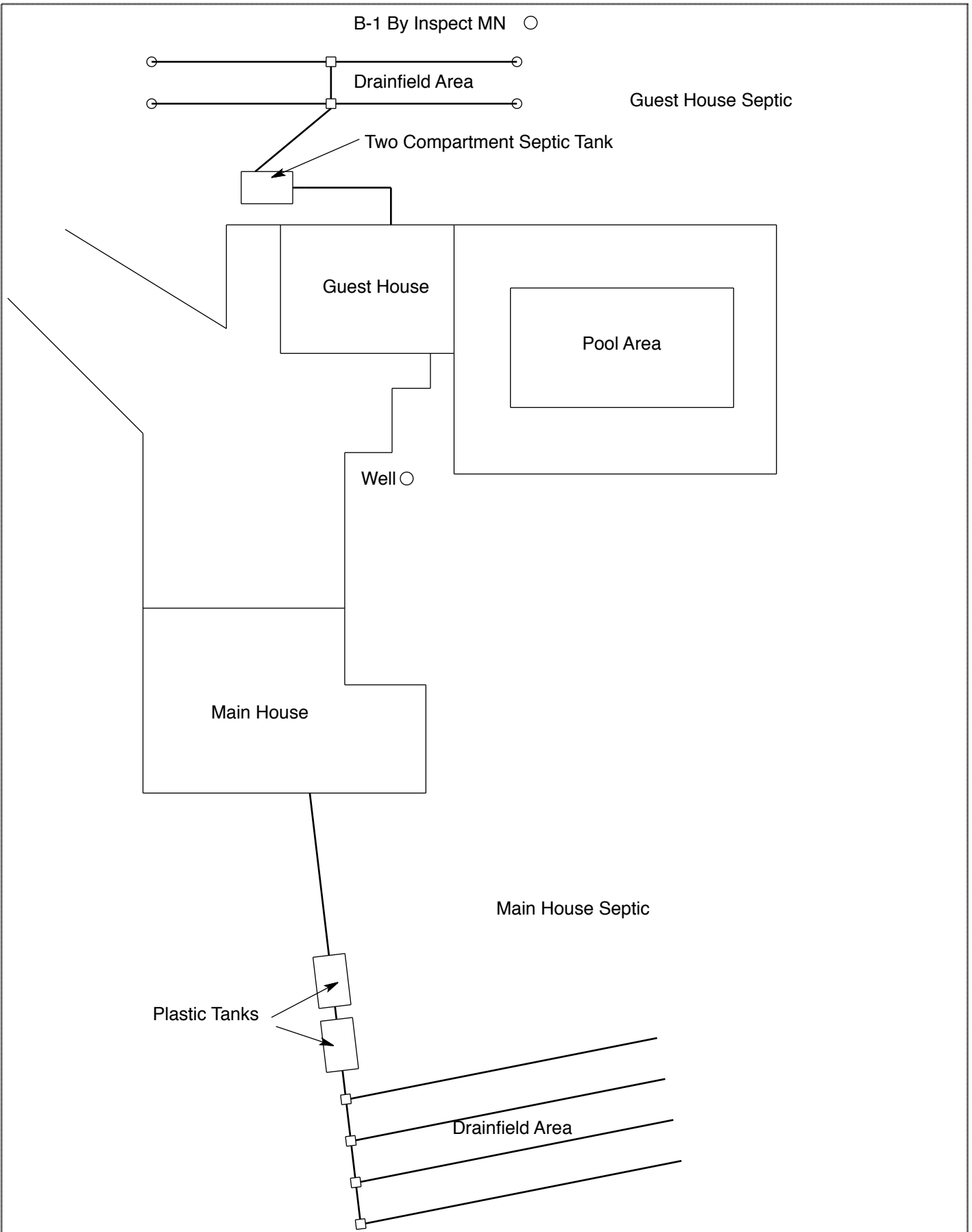
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

| | | | |
|--|--|--|--|
| Date of Inspection: 9/11/2017 & 9/25/2017 | | Time: 11:00 AM | |
| Property Address: 991 Neal Ave N, West Lake Twp, MN (Guest House) | | Zip: 55082 | |
| Property Owner: Brian Solos | | Phone: 651-269-5825 | |
| Tank(s) <input checked="" type="checkbox"/> Septic 2 Comp <input type="checkbox"/> Aerobic <input type="checkbox"/> Lift <input type="checkbox"/> Holding <input type="checkbox"/> Other: | Tank(s)Material <input type="checkbox"/> Fiberglass <input type="checkbox"/> Plastic <input type="checkbox"/> Metal <input type="checkbox"/> Concrete <input type="checkbox"/> Block <input type="checkbox"/> Other _____ | Soil Treatment System <input type="checkbox"/> Rock trench <input type="checkbox"/> Gravelless trench <input type="checkbox"/> Chamber trench <input type="checkbox"/> Seepage bed <input type="checkbox"/> Mound <input type="checkbox"/> At-grade | Other <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 checked="" type="checkbox"/> Yes <input 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: 2008 | Year septic installed: 2008 | Tank size (gals.): 2 Comp - 1500 | |
| How long has seller owned the property? 2016 | | Number of residents in home? Unknown | |
| Number of bedrooms? 2 | Are all floors drained by gravity? Y | | |
| Garbage disposal? N | | Whirlpool bath? N | |
| More than one system (laundry, etc.)? N | | | |
| Does this property have any footing drain tiles connected to the septic system? N | | | |
| Are any buildings on this property such as garages or out-buildings connected to this system? N | | | |
| Are there any additional systems on this property serving other buildings? There is a separate system for the house. | | | |
| Location of septic system on lot? North Side | | | |
| Location of water well on lot? South 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? N If yes, explain: | | | |
| When was the system last pumped? 2014 | | Name of pumper: Unknown | |
| How often pumped in previous years? Unknown | | Is system on a monitoring plan? N | |
| Have you received notices from any government agency concerning this system? N | | | |
| Is your property located in a shoreland management area? N | | | |
| Do you have any additional information that should be given to the new owner? N | | | |

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: Brian Solo's Signature On File

Date: 09/11/2017



NO SCALE

B-2 By Inspect MN ○

991 Neal Ave N, West Lakeland Twp, MN 55082

SITE EVALUATION

COUNTY USE ONLY

CHECK ALL THAT APPLY:

- NEW
- CLASS V
- EXISTING
- COMMERCIAL ESTABLISHMENT
- DWELLING
- FBL ESTABLISHMENT
- SHORELAND
- IN WELLHEAD PROTECTION AREA

EVALUATOR: CHRIS LECCLAIR

PROPERTY ADDRESS: 991 NEAL AVE N.

DATE: 22 OCT 2008 TIME: 12:55

GEOCODE:

SOIL REVIEW

| SOIL CLASSIFICATION: | | | | | PARENT MATERIAL: | | | | |
|--|--------------------|---------------------------------|------------|--------------------------------|---------------------------------|---------|------------------------------|-----------|--------------------------------|
| SOIL BORING 1 | | | | | SOIL BORING 2 | | | | |
| ELEVATION OF BORING: | | LOCATION: <u>IN TESTED AREA</u> | | | ELEVATION OF BORING: | | LOCATION: | | |
| GPS COORDINATES: LAT: | | LON: | | | GPS COORDINATES: LAT: | | LON: | | |
| <input checked="" type="checkbox"/> BORING | | <input type="checkbox"/> PIT | | <input type="checkbox"/> PROBE | <input type="checkbox"/> BORING | | <input type="checkbox"/> PIT | | <input type="checkbox"/> PROBE |
| SOIL HORIZON DEPTH (IN) | TEXTURE | COLOR | STRUCTURE | REDOXIMORPHIC FEATURES | SOIL HORIZON DEPTH (IN) | TEXTURE | COLOR | STRUCTURE | REDOXIMORPHIC FEATURES |
| <u>0"-9"</u> | <u>SILT</u> | <u>10 YR 3/2</u> | <u>ABK</u> | <u>NO</u> | | | | | |
| <u>9"-20"</u> | <u>SILT</u> | <u>10 YR 4/4</u> | <u>ABK</u> | <u>NO</u> | | | | | |
| <u>20"-48"</u> | <u>SILT</u> | <u>10 YR 4/3</u> | <u>ABK</u> | <u>NO</u> | | | | | |
| <u>48"-60"</u> | <u>FINE SAND</u> | <u>10 YR 4/3</u> | <u>GR</u> | <u>NO</u> | | | | | |
| <u>60"</u> | <u>OBSTRUCTION</u> | | | | | | | | |

SOIL REVIEW CONCLUSIONS

| | | | |
|---|---------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> SITE SUITABLE <input type="checkbox"/> UNSUITABLE SOIL <input type="checkbox"/> DISTURBED SOIL <input type="checkbox"/> COMPACTED SOIL | DEPTH INFORMATION: | | SOIL TEXTURE: <u>1.67 SILT-SILT LO AM</u> |
| | STANDING WATER: <u>NO</u> | SATURATED SOIL: <u>NO</u> | SOIL SIZING FACTOR: <u>1.67</u> |
| | BEDROCK: <u>NO</u> | MAXIMUM DEPTH OF SYSTEM: <u>36"</u> | LINEAR LOADING RATE: |

SITE REVIEW

| | | |
|---|---|---|
| CHECK ALL THAT APPLY | EASEMENTS ON LOT: | SETBACKS |
| <input type="checkbox"/> WETLAND OR WETLAND VEGETATION <input type="checkbox"/> POND, LAKE, STREAM, RIVER <input type="checkbox"/> FLOODPLAIN <input type="checkbox"/> 10 YEAR FLOOD ELEVATION _____ <input type="checkbox"/> BLUFFLINE <input type="checkbox"/> WELL WELL CASING DEPTH: _____ | <input type="checkbox"/> UTILITY <input type="checkbox"/> DRAINAGE <input type="checkbox"/> OTHER | BLUFFLINE RIVER POND, LAKE, STREAM, WETLAND WELL |

COMMENTS/NOTES:

JOB LEW LINDERMAN

BORING LOG

991 NEAL AVE.
W. LAKE LAND

BOREHOLE DIAMETER 4" 3 1/2" 2 1/2"

DATE 9-16-2008

| DEPTH FEET | HOLE #1 | HOLE #2 | HOLE #3 | HOLE #4 | HOLE #5 | HOLE #6 |
|------------|--|--|------------------------|---------|---------|---|
| 1 | TOP SOIL BLACK FINE SANDY LOAM | TOP SOIL BLACK FINE SANDY LOAM | TOP SOIL BLACK LOAM | | | CLASSIFICATION TOP SOIL BLACK LOAM 10YR 2/1 |
| 2 | BROWN FINE SANDY LOAM | BLACK FINE SANDY LOAM | BLACK LOAM ROCKS | | | BROWN LOAM 10YR 4/3 YELLOWISH BROWN LOAM 10YR 5/4 |
| 3 | YELLOWISH BROWN SANDY LOAM ROCKS | BLACK LOAM | | | | BLACK LOAM 10YR 2/10 |
| 4 | | | | | | |
| 5 | | YELLOWISH BROWN SANDY LOAM ROCKS | CAVING STOP | | | |
| 6 | STOP OK 6' | | OK 5' | | | |
| 7 | | STOP OK 6' | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |

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.

Subsurface Sewage Treatment Systems

Non-transferable

Business License

Inspect Minnesota, Midwest Soil Testing

License # L2896

License Expires: 12/22/2017

Issued: 11/29/2016

Specialty Area(s):

Installer

Maintainer

Service Provider

Advanced Designer

Advanced Inspector

Designated Certified Individual(s):

| Cert # | Name | Certification Expires: |
|--------|---|------------------------|
| C5342 | Brian L Humpal Installer, Maintainer, Serv Prov, Adv Designer, Adv Inspector | 10/15/2017 |
| C9852 | Christopher R Uebe Designer, Inspector | 3/4/2018 |



Minnesota Pollution Control Agency

520 Lafayette Road North

St. Paul, Minnesota 55155-4194

Steven Giddings, Manager

Prevention and Solid Waste Management Section

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: <u>9/11/17</u> | | Time: <u>10:30</u> | |
| Property Address: <u>House System</u> | | Zip: | |
| Property Owner: | | Phone: | |
| Tank(s) <input checked="" type="checkbox"/> Septic <u>2</u> <input type="checkbox"/> Aerobic <input type="checkbox"/> Lift <input type="checkbox"/> Holding <input type="checkbox"/> Other: | Tank(s)Material <input type="checkbox"/> Fiberglass <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Metal <input type="checkbox"/> Concrete <input type="checkbox"/> Block <input type="checkbox"/> Other | Soil Treatment System <input checked="" type="checkbox"/> Chamber trench <input type="checkbox"/> Gravelless trench <input type="checkbox"/> Seepage bed <input type="checkbox"/> Mound <input type="checkbox"/> At-grade | Other <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 checked="" type="checkbox"/> Yes <input 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: <u>1956</u> | Year septic installed: <u>2002</u> | Tank size (gals.): <u>1-1000, 1-1000</u> | |
| How long has seller owned the property? <u>2016</u> | | Number of residents in home? <u>vacant</u> | |
| Number of bedrooms? <u>3</u> | Are all floors drained by gravity? <u>Yes</u> | | |
| Garbage disposal? <u>N</u> | Whirlpool bath? <u>N</u> | | |
| More than one system (laundry, etc.)? <u>N</u> | | | |
| Does this property have any footing drain tiles connected to the septic system? <u>N</u> | | | |
| Are any buildings on this property such as garages or out-buildings connected to this system? <u>N</u> | | | |
| Are there any additional systems on this property serving other buildings? <u>Guest system</u> | | | |
| Location of septic system on lot? <u>N</u> | | | |
| Location of water well on lot? <u>S</u> | | Is the well a deep well? <u>Yes</u> | |
| 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? <u>N</u> If yes, explain: | | | |
| When was the system last pumped? <u>unknown</u> | | Name of pumper: <u>unknown</u> | |
| How often pumped in previous years? <u>unknown</u> | | Is system on a monitoring plan? <u>N</u> | |
| Have you received notices from any government agency concerning this system? <u>N</u> | | | |
| Is your property located in a shoreland management area? <u>N</u> | | | |
| Do you have any additional information that should be given to the new owner? <u>N</u> | | | |

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: 9-11-17

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: <u>9/11/17</u> | | Time: <u>11:00</u> | |
| Property Address: <u>Guest house</u> | | Zip: | |
| Property Owner: | | Phone: | |
| Tank(s) <input checked="" type="checkbox"/> Septic <u>2comp</u> <input type="checkbox"/> Aerobic <input type="checkbox"/> Lift <input type="checkbox"/> Holding <input type="checkbox"/> Other: | Tank(s)Material <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 | Soil Treatment System <input checked="" type="checkbox"/> Block trench <input type="checkbox"/> Gravelless trench <input checked="" type="checkbox"/> Sharkey trench <input type="checkbox"/> Seepage bed <input type="checkbox"/> Mound <input type="checkbox"/> At-grade | Other <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 checked="" type="checkbox"/> Yes <input 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: <u>2008</u> | Year septic installed: <u>2008</u> | Tank size (gals.): <u>2comp 1500</u> | |
| How long has seller owned the property? <u>2616</u> | | Number of residents in home? | |
| Number of bedrooms? <u>2</u> | Are all floors drained by gravity? <u>Yes</u> | | |
| Garbage disposal? <u>N</u> | Whirlpool bath? <u>N</u> | | |
| More than one system (laundry, etc.)? <u>N</u> | | | |
| Does this property have any footing drain tiles connected to the septic system? <u>N</u> | | | |
| Are any buildings on this property such as garages or out-buildings connected to this system? <u>N</u> | | | |
| Are there any additional systems on this property serving other buildings? <u>House system</u> | | | |
| Location of septic system on lot? <u>N</u> | | | |
| Location of water well on lot? <u>S</u> | | Is the well a deep well? <u>Yes</u> | |
| 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? <u>N</u> If yes, explain: | | | |
| When was the system last pumped? <u>2014 3/4</u> | | Name of pumper: | |
| 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? <u>N</u> | | | |
| 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: 9-11-17



WASHINGTON COUNTY, MINNESOTA
 Department of Public Health
 and Environment 651/430-6688

Scanned 8/22/08 sm

PERMIT NUMBER

VRGT LAKELAND TOWNSHIP
 001702029 SEWAGE PERMIT

| | |
|--------------------------------|--------|
| DRAINFIELD REPLACEMENT PERMIT | 85.00 |
| SEPTIC APPLICATION/SOIL REVIEW | 165.00 |
| Total Fees : | 270.00 |
| Total Paid : | 270.00 |
| Total Due : | .00 |

Owner : NELS CARSON
 8848 CLOVER BRIGHS
 HALTOW CA 90268
 Applicant : NELS CARSON 310-457-2644

0017-02029

PERMISSION IS HEREBY GRANTED

To execute the work specified in this permit on the following described property upon express condition that said persons and their agents, employees and workmen shall conform in all respects to the provisions of the Building Code, and/or Ordinances.

This permit may be revoked at any time upon the violation of any of the provisions of said code and ordinances.

Project Address : 991 NEAL AVENUE STELLWATER MN 55082
 Legal Description: PART SW1/4-SW1/4 202020 & PART NW1/4 S32T20R20 No. : 32-029-20-22-0001
 Flow Capacity : 300 Gal/Day Tank Volume 2000
 Soil Conditions: Depth to Restriction 66 inches Perc Rate 20 H2O/Inch

Soil Treatment Type:

Bottom Area 550 Rock Depth 12

Authorized Work / Special Conditions

- Install individual sewage treatment system as per approved design in area tested and shown on site plan.

** Permit Expiration Date : Sewage Treatment : 2003-10-03

A CERTIFICATE OF OCCUPANCY MUST BE REQUESTED AND ISSUED PRIOR TO USE OR OCCUPANCY OF WORK PERMITTED BY A BUILDING PERMIT.

** This permit shall expire and be null and void if the work authorized by the Building Permit is not commenced within 60 days of the date of issuance or if work is abandoned or suspended for a period of 120 days. Term of the Building Permit is 12 months from date of issue. Term of sewage treatment permit is 12 months from date of issue.

Penalty for violation of any of the provisions of building code: Fine not to exceed five hundred dollars (\$500.00) or imprisonment for not more than ninety (90) days, or both.

Permit Issue Date 2002-10-03 Code Enforcement Officer P. banzel

INSPECTION RECORD

| BUILDING | DATE | INSP. | COMMENTS |
|---|------|-------|----------|
| Foundation | | | |
| Foundation Wall | | | |
| Plumbing (Groundwork) | | | |
| Heating (Groundwork) | | | |
| Rough Plumbing | | | |
| Rough Gas Piping | | | |
| Rough Heating and Ventilation | | | |
| Framing | | | |
| Insulation | | | |
| Fireplace | | | |
| Chimney | | | |
| Wallboard or Lath and Plaster | | | |
| Final Electrical | | | |
| Final Plumbing | | | |
| Final Gas Piping | | | |
| Final Heating and Ventilation | | | |
| Final Building | | | |

| SEWAGE TREATMENT SYSTEM | DATE | INSP. | COMMENTS |
|-------------------------|----------|-------------------|---|
| Installation | 10-16-02 | P. J. [Signature] | Tank Size: 2-1000 Treatment Area: 550 ft ² |
| As Built | 10-17 | | Installer: AAA |

| DRIVEWAY | DATE | INSP. | COMMENTS |
|------------------------|------|-------|----------|
| Access | | | |
| Installation | | | |

NOTES:

Newesco Plastic
10-17 Check

EKLIN SOIL TESTING AND INSPECTIONS, INC.


1986 Ridgewood Avenue
White Bear Lake, MN 55110
1-651-429-1090

| | |
|------------------|---|
| Owner's Name | ROBERT TOTH |
| Job Site Address | 991 NEAL AVE. |
| City or Township | WEST LAKELAND TOWNSHIP |
| Use of Building | HOME 1- BEDROOM - SIZED FOR 2- BEDROOMS |

| | | | | | | |
|---|---|--------------|--------------------------------|---|----|--------------|
| Design Flow Rate | 300 GAL PER DAY | Perc Rate | 20 MPI | Land Slope | 21 | Percent |
| Two Required Tank Sizes | 1000 Gallons | 1000 Gallons | Lift Station Tank Size | | | Gallons |
| Type of System (standard, at grade or bed) | STANDARD | | | | | |
| System Size: | 5.50 | Square Feet | 180 | Linear Feet | 36 | Trench Width |
| Depth of rock below pipe | 12" | | Depth of Rock Above Pipe | 2" | | |
| Minimum Depth of Trench From Existing Grade | 24 | | Inches | Maximum Depth of Trench From Existing Grade | 30 | |
| Recommended Number of Trenches | 3 | | Recommended Length of Trenches | 60 FT | | |
| Trench Spacing Measured Center to Center | 7 Feet | | | | | |
| Any Other Special Conditions | PUMP & FILL THE 2- EXISTING TANKS WITH SAND | | | | | |

STEEP SLOPE - COVER SHOULD BE ESTABLISHED OVER THE DISTURBED AREAS WHEN THE WORK IS COMPLETED - MULCH & SEED - YOU MAY WANT TO USE WOOD FIBER BLANKET

This system has been designed by a Pollution Control Agency (PCA) Certified Professional.

| | | | |
|---------------|---|---------------------|--------------|
| Designer Name | DALE EKLIN 1986 RIDGEWOOD AVE. | PCA Certification # | 695 |
| Address | WHITE BEAR LAKE MINN. 55110 | Phone # | 651-429-1090 |
| Signature |  | Date | 8.20.2002 |



SITE REVIEW and/or SEPTIC PERMIT APPLICATION

Washington County Public Health & Environment

14949 62nd Street N, PO Box 3803
Stillwater, MN 55082-3803
651/430-6688 FAX 651/430-6730

RECEIVED
SEP 17 2002
HELM

Paid \$ 270.00
Receipt # 43381

Make checks payable to WASHINGTON COUNTY

- \$190 - New Home Drainfield
- \$ 85 - Replace Existing System with a Drainfield System
- \$315 - New Home Mound
- \$210 - Replace Existing System with a Mound System
- \$315 - Alternative/Experimental System
- \$185 - Individual Lot
- \$130 - Subdivision Soil/Site Review - Base fee Plus \$55/lot
- \$ 25 - Additional Review Fee (1 hour minimum)
- \$ 30 - Renewal of Previous Permit Fee

0017-02029

Legal Description and Parcel Identification Number (especially if this is for a NEW SUBDIVISION OR MINOR SUBDIVISION) 310 901 5566

| | | | | | |
|-------------------------------------|---------------------|----------------------|-----------|--------------|-------|
| <u>NILS CARSON</u> | <u>991 NEAL AVE</u> | <u>WEST LAKELAND</u> | <u>MN</u> | <u>55082</u> | |
| Applicant | Address | City | State | Zip | Phone |
| Owner (if different from applicant) | Address | City | State | Zip | Phone |

New Home Existing Home New Business Existing Business

Number Of Bedrooms: _____ Gallons Per Day: _____

Check the following fixture(s) which are or will be installed: Garbage Disposal _____ Recreational Bathing Facility: (jacuzzi, hot tub, etc.) _____

New Home Drainfield System Mound System Alternate/Experimental System Existing Permit Renewal

Existing Home Replacement System Drainfield System Mound System Tank Replacement Only

Site Approval Only If this site has been previously approved, attach copy of approval letter _____ Additional Soil Test Data for Previously Approved Site

The following exhibits are required as part of this application and shall be attached hereto: Percolation Test Reports; Soil Boring Logs; Site Plan drawn to scale showing location of buildings, lot lines, percolation test holes, soil boring holes, proposed location of system and well; one (1) copy of the System Design; and one (1) copy of the Final Building Plan. The house and the drainfield areas must be staked. Inaccurate or incomplete information will result in delays in processing.

AGREEMENT: The undersigned hereby makes Application for Permit to Install or Extend Sewage Treatment System herein specified, agreeing that all such work shall be done in strict accordance with ordinances and regulations of the County of Washington, Minnesota. Applicant agrees that the Site Plan, Sketches and Design submitted herewith, and which are reviewed by Washington County, together with any requirement and/or restriction made necessary by conditions peculiar to a particular location, shall become a part of the permit. Applicant further agrees to provide access, at reasonable times, to Washington County for the purpose of performing inspections required and that no part of the system shall be covered until it has been inspected and accepted. **APPLICATION IS FOR AN INSTALLATION AT A SPECIFIC LOCATION; ANY DEVIATION FROM THE APPROVED LOCATION WILL VOID THE PERMIT.** It shall be the responsibility of the applicant for the permit to notify the Office of the Washington County Dept. of Public Health & Environment that the installation is ready for inspection.

I hereby certify the above to be true and correct. In connection with your request for a soil review/septic permit, I hereby give Washington County Department of Public Health and Environment permission to enter upon my property during normal business hours for the purpose of determining the suitability of the location, design, and construction, which may include minor excavation or soil borings by the Department.

9.17.02

Signature of Applicant (Owner or Contractor)

Date

THE AREA BELOW IS FOR COUNTY USE ONLY

SITE EVALUATION: BY INSPECTOR P. Gumbert DATE 10-2-02

| SETBACKS: | REQUIRED (CIRCLE APPROPRIATE ITEM(S)) | | | | | ACTUAL |
|--|---------------------------------------|-----|------|------|------|--------|
| Well (including adjacent property) | 50' | 75' | 100' | 150' | | |
| Wetland, Pond, Lake, Stream, River, or Bluffline | 20' | 40' | 75' | 100' | 150' | |

CONCLUSIONS: Site Suitable: Site Unsuitable: Additional Tests Required: Verify Use: _____ Bedrooms

NOTES: Lot Size _____ Year Built _____

3202920220001

Mail out permit

JOB ROBERT TOTH
991 NEAL AVE.
WEST LAKEWOOD TWP

BORING LOG

DATE 8-19-02

BOREHOLE DIAMETER 4 3/4" 2 1/2" HAND DRIVEN

| DEPTH FEET | HOLE #1 | HOLE #2 | HOLE #3 | HOLE #4 | HOLE #1 | SOIL CLASSIFICATION |
|------------|---|----------------------------------|----------------------------------|---|---------|---------------------------------|
| 1 | TOP SOIL - SANDY LOAM | TOP SOIL - SANDY LOAM | TOP SOIL - SANDY LOAM | TOP SOIL - SANDY LOAM | | TOP SOIL - BROWN LOAM 7.5YR 4/4 |
| 2 | YELLOWISH BROWN, SANDY LOAM - ROCKS | LIGHT BROWN, MEDIUM SAND - ROCKS | LIGHT BROWN, COARSE SAND - ROCKS | YELLOWISH BROWN LOAM | | LIGHT BROWN SAND 7.5YR 5/3 |
| 3 | LIGHT BROWN MEDIUM SAND - ROCKS | | | | | YELLOWISH BROWN LOAM 10YR 5/6 |
| 4 | | | | | | |
| 5 | LIGHT BROWN LOAM - MOTTLED OBSTRUCTION STOP | | | YELLOWISH BROWN SANDY LOAM | | |
| 6 | | OBSTRUCTION STOP | BH CAVING STOP | LIGHT BROWN, COARSE SAND - ROCKS - OBSTRUCTION STOP | | |
| 7 | Mottle 4'8" | OBSTRUCTION STOP | OKAY 6' | OKAY 5'6" | | |
| 8 | LOW BORING | OKAY 6' | | | | |
| 9 | | | | | | |
| 10 | | | | | | |

PERCOLATION DATA

JOB ROBERT TOTH
991 NEAL AVE.
WEST LAKELAND TWP.

BOREHOLE # 1
 BOREHOLE DEPTH 30"
 BOREHOLE DIAMETER 6"

DATE 8-19-02 SIGNED _____

BOREHOLE # _____
 BOREHOLE DEPTH _____
 BOREHOLE DIAMETER _____

| DEPTH | SOIL DESCRIPTION |
|---------|-----------------------|
| 0-10" | TOP SOIL |
| 10"-30" | YELLOWISH, BROWN LOAM |
| | |
| | |
| | |

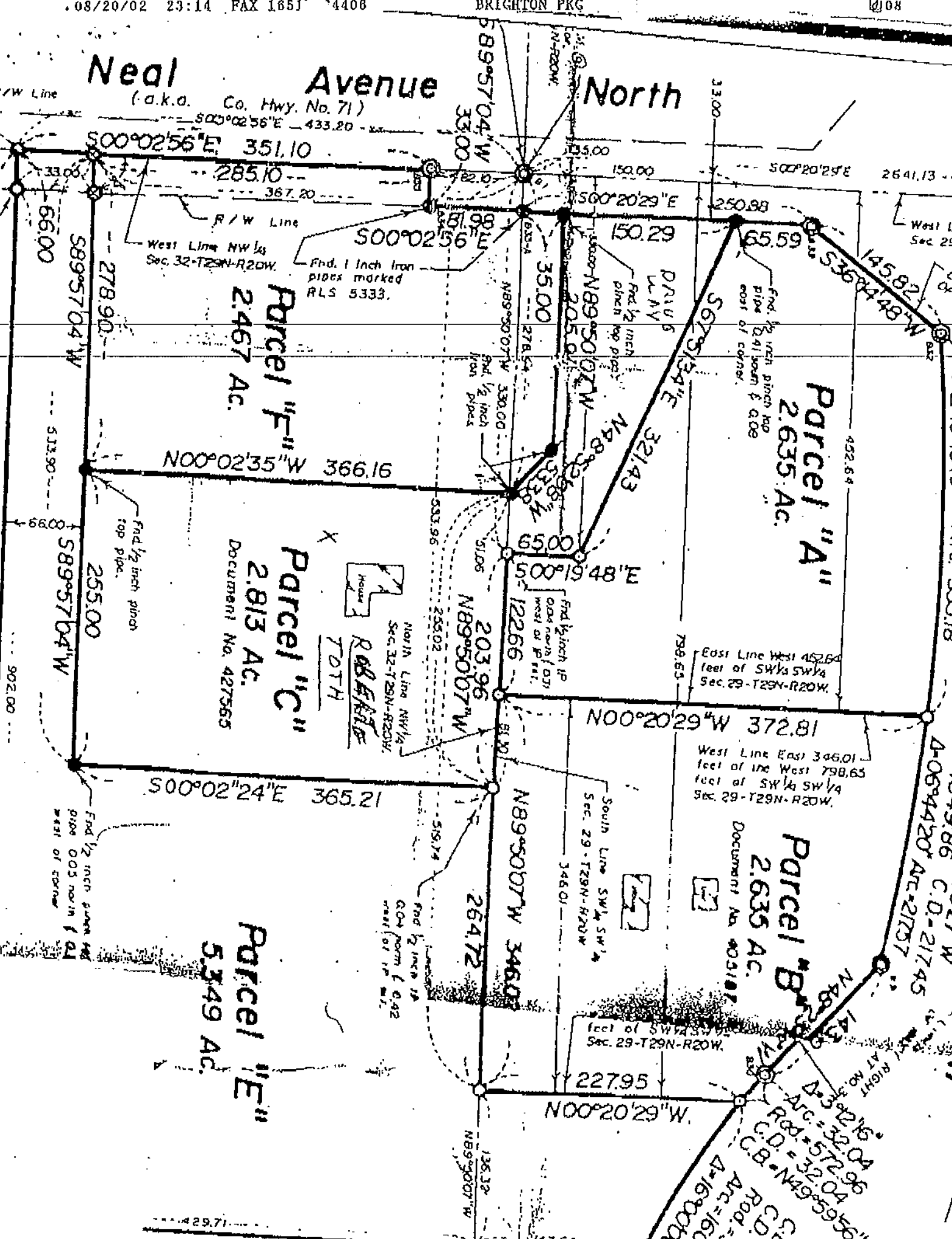
| DEPTH | SOIL DESCRIPTION |
|-------|------------------|
| | |
| | |
| | |
| | |
| | |

| TIME | READING MEASUREMENT | DROP | COMMENTS |
|------|---------------------|--------|----------|
| 1:50 | 24" | | FILL |
| 2:20 | 25 7/8" | 1 7/8" | 18.5 MPI |
| 2:20 | 24" | | FILL |
| 2:50 | 25 1/2" | 1 1/2" | 20 MPI |
| 2:50 | 24" | | FILL |
| 3:20 | 25 1/2" | 1 1/2" | 20 MPI |
| 3:20 | 24" | | FILL |
| 3:50 | 25 3/8" | 1 7/8" | 21.8 MPI |

| TIME | READING MEASUREMENT | DROP | COMMENTS |
|------|---------------------|------|----------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Neal Avenue North

(a.k.a. Co. Hwy. No. 71)



Parcel "F"
2.467 Ac.

Parcel "C"
2.813 Ac.
Document No. 427565

ROBERT
TOTH

Parcel "A"
2.635 Ac.

Parcel "B"
2.635 Ac.
Document No. 403187

Parcel "E"
5.349 Ac.

Parcel "D"
2.1745 Ac.
C.D. = 21745

RIGHT AT NO. 333.18
 C.B. = 333.18
 C.D. = 333.18
 C.B. = 333.18
 C.D. = 333.18
 C.B. = 333.18
 C.D. = 333.18
 C.B. = 333.18
 C.D. = 333.18



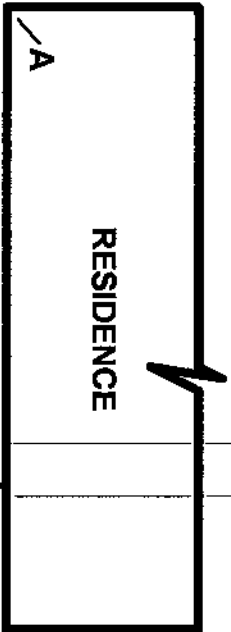
AS-BUILT REPORT

INDIVIDUAL SEWAGE TREATMENT SYSTEM

Washington County Health, Environment & Land Management
 14900 61st. ST. N., P.O. BOX 3803, STILLWATER, MN., 55082-3803
 612/430-6708 or 612/430-6656 FAX 612/430-6730

| | | | | |
|--|-------------------|------------------------|-------|-------|
| Legal Description or Complete Street Address | | City or Township | | |
| 991 NEAL AVE | | WEST LAKELAND | | |
| Owner Name | Mail Address | City | State | Zip |
| NILS CARSON | SAME | | | |
| Installer | Mail Address | City | State | Zip |
| AAA POLLUTION CONTROL, INC. | 2077 GENEVA AVE N | OAKDALE | MN | 55128 |
| Septic Tank Information | | | | |
| Tank Manufacturer: | | Liquid Capacity: | | |
| NORWESTCO | | 1- 1500 1- 1000 GALLON | | |

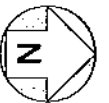
| PUMP CHAMBER (if installed) | | | | |
|---|---|--|-------------------------------------|-----------------------|
| Tank Manufacturer: | Liquid Capacity: | Horsepower of Pump: | Type of Warning Device: | |
| SAME | | | PER OWNER | |
| Pump Discharge in Gallons Per Minute: | at | Feet of Head. | Number of Gallons Pumped Per Cycle: | |
| | | | | |
| DRAINFIELD TRENCH | | BED OR MOUND | | |
| Width: | Length of Each Trench: | Rock Bed Length: | Width: | Area: |
| 3 FEET | VARIES | | | |
| Depth of Trench Bottom From Finish Grade: | | Bed Depth from Grade: | | |
| 30 INCHES | | | | |
| Method of Distribution: <input type="checkbox"/> Gravelless | | MOUND: | | |
| <input type="checkbox"/> Pressure | <input type="checkbox"/> Distribution Box | <input checked="" type="checkbox"/> Drop Box | Upslope Sand Depth: | Downslope Sand Depth: |
| Depth of Rock Under Distribution Pipe: | | Depth of Rock Under Pipe: | | |
| INFILTRATOR | | | | |
| Square Footage of Test Area Used: | | PRESSURE DISTRIBUTION SYSTEM: | | |
| Trench Bottom Area Sq. FT. Required: | Area As Built: | Lateral Inside Diameter: | Length: | Perforation Size: |
| | 550 | | | |
| PERMIT NUMBER: # 0017-02029 | | Spacing: | Number: | Perforation Spacing: |
| | | | | |



RESIDENCE

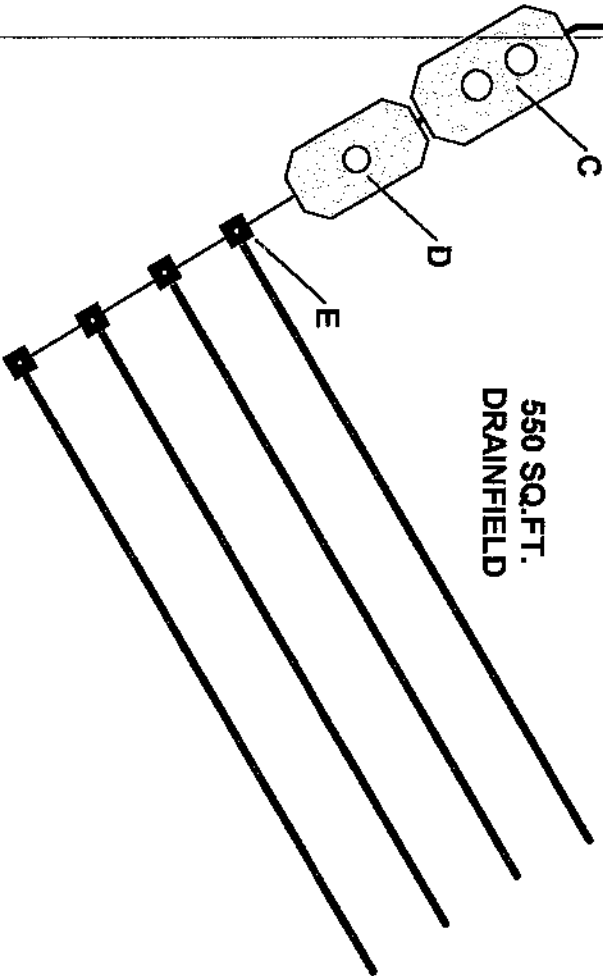
DIMENSIONS:

- A-C: 54FT
- A-D: 60FT
- A-E: 80FT
- B-C: 36FT
- B-D: 51FT
- B-E: 65FT



SEPTIC TANKS:
 1 - 1500 GALLON
 1 - 1000 GALLON

↑
 TO NEAL AVE



NILS CARSON
 991 NEAL AVE
 WEST LAKE LAND

PERMIT 0017-02029

AAA POLLUTION CONTROL, INC.
 2077 GENEVA AVE N.
 OAKDALE, MN 55128

08/21/02 WED 12:26 FAX 9529748396
08/20/02 23:14 FAX 16514406

CARLSON PARTNERS NET
BRIGHTON PKG

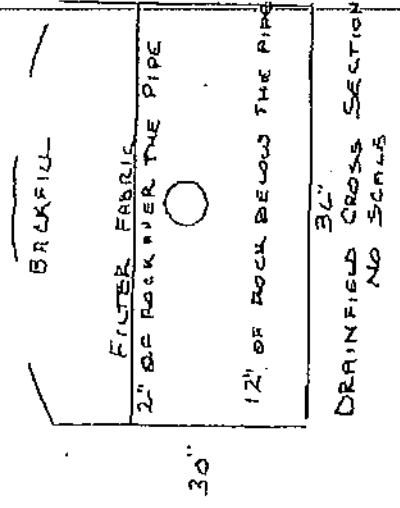
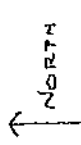
0006
004
ROBERT TATA
991 NEAL AVE.
WEST LAKELAND TOWNSHIP
PARCEL C

10TH STREET NORTH

SCALE: 1" = APPROX. 50'

550 SQ. FT. DRAINFIELD
3 RUNS - 60' LONG
30" WIDE - 20" DEEP
7'6" CENTER TO CENTER
TRENCH SPACING
FOLLOW THE CONTOURS
KEEP BOTTOM OF TRENCH
LEVEL

NOT A SURVEY
VERIFY ALL LINES



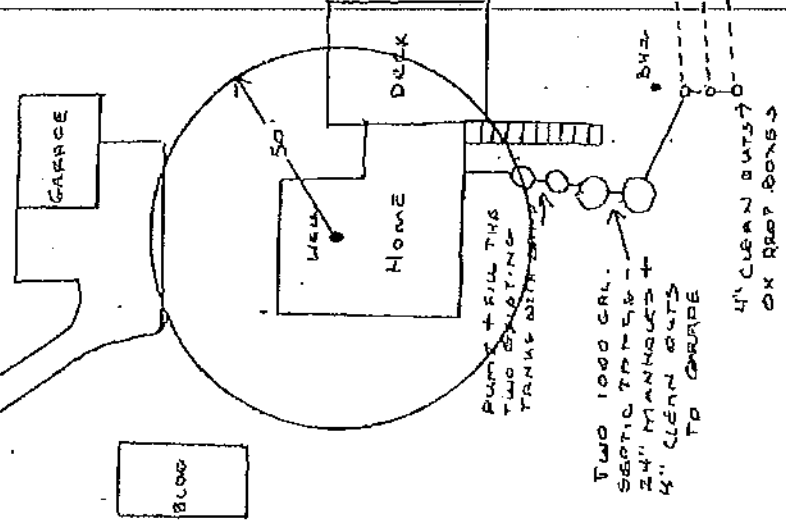
321.43

206

63.38

200 ±

NEAL AVE NO



TWO 1000 GAL.
SEPTIC TANKS -
24" MANHOLES +
4" CLEAN OUTS
TO GARAGE

4" CLEAN OUTS TO
OR ROOF DOWNS

2.1%
SLOPE

SITE IS WOODED -
SOME SMALL TREES
WILL HAVE TO BE
REMOVED FOR THE
DRAINFIELD -
INSTALL COVER OVER
THE TRENCHES AS
SOON AS POSSIBLE
TO PREVENT EROSION
ON THE STEEP SLOPE

2.55.00

08/21/02 WED 12:27 FAX 9529748396
.08/20/02 23:14 FAX 165134406

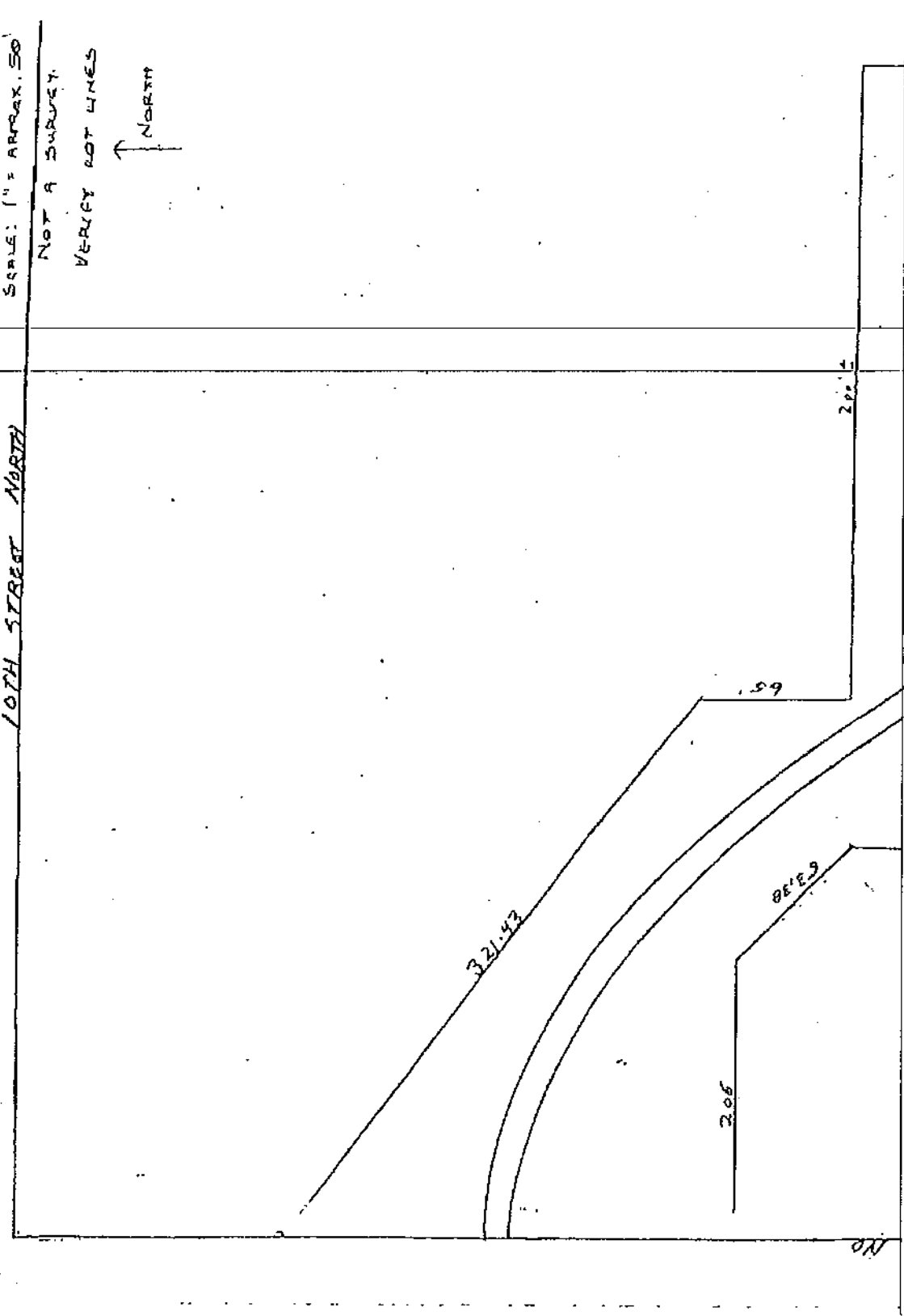
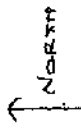
CARLSON PARTNERS NET
BRIGHTON PKG

0007
05
REBUILT TO
991 NEALY AVE.
WEST LAKEWOOD TOWNSHIP
PARCEL C

10TH STREET NORTH

SCALE: 1" = APPROX. 50'

NOT A SURVEY
VERIFY LOT LINES



INVOICE

JACK E. GILL
PROFESSIONAL BUILDING
INSPECTIONS
P.O. Box 21296
Minneapolis, MN 55421
(612) 789-3354

12/1/00

Mr. Bob Toth
991 Neal Avenue North
West Lakeland, MN

| HOURS | SERVICE PROVIDED | AMOUNT |
|--------|---|----------|
| 1 Each | Well Water Test - Bacteria and Nitrates | \$ 40.00 |
| | TOTAL | \$ 40.00 |

Date Due 12-15-00
Agent: Julie Braun - Edina Realty

Note: All invoices not paid by scheduled date of payment will receive one reminder notice. If reminder notice does not result in payment, invoice will then be submitted to "National Account Services" Collection Agency for collection.

BRIGHTON PACKAGING, INC.

TAX EXEMPT NO. 4758355
991 NEAL AVE., N. PH. 651-436-6198
STILLWATER, MN 55082

16411

DATE FEB 26, 2001 ¹⁷⁻¹932
910

PAY
TO THE
ORDER OF

JACK GILL

\$ 40.00

FORTY AND NO/100-----

DOLLARS 

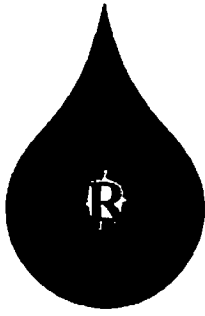


Norwest Bank Minnesota, N.A.
IDS Center Office
77 South Seventh Street
Minneapolis, MN 55402
612-667-9378

Robert L. [Signature]

FOR

⑈016411⑈ ⑆091000019⑆0996925176⑈



Instrumental Research, Inc.
7800 Main St. Fridley, MN 55432 763-571-3698

November 13, 2000

Professional Building Inspections
Post Office Box 21296
Minneapolis, MN 55421

LABORATORY RESULTS – WELL WATER SAMPLE

This is to certify that a well water sample from the Bob Toth residence, 991 Neal Avenue North, Lakeland, MN was submitted to Instrumental Research laboratory and under my supervision. The sample was collected by PBI personnel.

| Parameters | Results | EPA & MN Drinking Water Limits | Reporting Limit | Date of Analysis |
|---|------------|--------------------------------------|--------------------|---------------------|
| (Total) Coliform colonies 9221 D. (P-A) Method | Absent | Absent | Absent | 11-08-00 |
| Nitrate Nitrogen 4500-NO ₃ ⁻ E. Method | 0.607 mg/L | 10.00 mg/L | 0.030 mg/L | 11-10-00 |

These results meet Minnesota Department of Health standards for a safe drinking water source.

All analyses were performed using Standard Methods for the Examination of Water and Wastewater, 19th edition approved methodologies.

SUZANNE MELCHIOR, LABORATORY SUPERVISOR

SM/ch

Minnesota Department of Health Certified Laboratory No. 027-003-130

DATE OF INSPECTION: _____ TIME: _____

SEPTIC & WATER: _____ SEPTIC ONLY: _____ WATER ONLY: _____

OWNERS NAME: _____

ADDRESS OF INSPECTION _____

_____ ZIP _____

OWNERS PHONE NUMBER: _____

DIRECTIONS: _____

TYPE OF SYSTEM: _____ AGE: _____

SYSTEM PASS: _____ SYSTEM FAIL: _____

REASON FOR FAILURE: _____

REALTOR: _____

BILLING METHOD: PAY AT CLOSING: _____ DATE: _____

INVOICE OWNER: _____ INVOICE REALTOR: _____

DAYS TO PAY: standard SPECIAL PAY: _____

COMMENTS, COPIES OR NOTES: _____

*Who repaired pipe
wash. by ser
14 yrs
See
Sellers, 100 Baytown
5 Haven, Ed 439-6701*

**Professional Building Inspections and Environmental Services
Minnesota Pollution Control Agency, (MPCA)
Septic System Compliance Inspection**

Date of Inspection 11-8-00 Time 3:30
 Property Address 991 Neal Ave. N.
W. Leland Zip 55082
 Property Owner Bob TOTH Phone 651/436-6158

(Check appropriate sewer system component and indicate on site sketch on back of form).

| Tank(s) | Tank(s) Material | Soil Treatment System | Other |
|----------------------------------|--------------------------------------|--|--|
| <input type="checkbox"/> Septic | <input type="checkbox"/> fiberglass | <input type="checkbox"/> rock trench | <input type="checkbox"/> alternative system _____ |
| <input type="checkbox"/> Aerobic | <input type="checkbox"/> plastic | <input type="checkbox"/> gravelless trench | <input type="checkbox"/> experimental system _____ |
| <input type="checkbox"/> Pump | <input type="checkbox"/> metal | <input type="checkbox"/> chamber trench | <input type="checkbox"/> drywell system _____ |
| <input type="checkbox"/> Holding | <input type="checkbox"/> concrete | <input type="checkbox"/> seepage bed | <input type="checkbox"/> other system _____ |
| | <input type="checkbox"/> block | <input type="checkbox"/> mound | |
| | <input type="checkbox"/> other _____ | <input type="checkbox"/> at-grade | |

Year house built 56 Year septic installed 56 Tank size _____ gals.
 How long has seller lived in home? 84 Number of residents in home? 7
 Separate system for laundry or kitchen water? _____ Number of bedrooms? 7
 Garbage disposal? no Are all floors drained by gravity? _____

Location of septic system on lot? rear
 Location of water well on lot? in yard Is the well a deep well? yes

Have you ever experienced any problems with the system such as back-ups, surfacing onto the ground, septic tank overflowing, or have any repairs been made to the system? yes 99
 If so, explain pipe plugged w/ paper - got water, repaired - ok since 1990* replaced pipe between tank & pump - PVC pipe
 When was the system last pumped? 1999 Name of pumper whyp
 How often pumped in previous years? every 2 yr

Have you received notices from any government agency concerning this system? no
 Do you have any additional information that should be given to the new owner? no

I hereby certify that the above information is correct to the best of my knowledge. I also understand that if the system is considered "failing" per MPCA rules, that the inspector must by law submit a copy of this report to the local unit of government.
 Owner [Signature] Date 11-8-00



Compliance Inspection Form for Existing Individual Sewage Treatment Systems

This form reflects the requirements of the 1996 version of MN Rules Chapter 7080

Minnesota Pollution Control Agency

Note: Local inspection standards may be more or less restrictive than the state requirements. These differences must be made available by the Local Unit of Government.

Date of Inspection: _____

Property Owner(s) _____ Telephone () _____

Person requesting inspection (if different than owner) _____ Telephone () _____

Reason for inspection: _____

Site Address _____ City _____

Zip Code _____ Unit of Government Regulating this property _____

Fire No. _____ Parcel No. _____ Township Name _____

Township _____ Range _____ Section _____ Quarter _____

(Check appropriate sewer system component and indicate location on site sketch).

| <u>Tank (s):</u> | <u>Soil Treatment System:</u> | <u>Other (briefly describe):</u> | <u>Flow Meter</u> |
|---------------------------------------|---|--|-------------------|
| <input type="checkbox"/> Septic tank | <input type="checkbox"/> Rock trench | <input type="checkbox"/> Alternative system _____ | Yes No |
| <input type="checkbox"/> Aerobic tank | <input type="checkbox"/> Gravelless pipe trench | <input type="checkbox"/> Experimental system _____ | If yes, _____ |
| <input type="checkbox"/> Pump tank | <input type="checkbox"/> Chamber trench | <input type="checkbox"/> Warrantied system _____ | |
| <input type="checkbox"/> Holding tank | <input type="checkbox"/> Seepage bed | Exp. Date: _____ | |
| <input type="checkbox"/> Other _____ | <input type="checkbox"/> Mound | <input type="checkbox"/> Other _____ | |
| | <input type="checkbox"/> At-grade | | |

System Classification

| System Built Prior to April 1, 1996 and not Located in Shoreland or Wellhead Protection Area or Serving a Food, Beverage or Lodging Establishment | Any System located in Shoreland or Wellhead Protection Area or Serving a Food, Beverage or Lodging Establishment, plus all systems Built after April 1, 1996 |
|--|---|
| <p><u>Is the system an imminent public health threat (IPHT)? Upgrade</u></p> <p>1. Discharge of sewage to the ground surface? YES NO 10 mo</p> <p>2. Discharge of sewage to drain tile or surface waters? YES NO 10 mo</p> <p>3. Sewage backup into dwelling? YES NO 10 mo</p> <p>4. Situation with the potential to immediately and adversely impact or threaten public health or safety? YES NO 10 mo</p> <p><u>Is the system failing?</u></p> <p>5. Less than TWO feet of vertical separation between system bottom and saturated soil or bedrock? YES NO LGU**</p> <p>6. A seepage pit, cesspool, drywell, or leaching pit? YES NO LGU**</p> | <p><u>Is the system an IPHT? Upgrade</u></p> <p>1. Discharge of sewage to the ground surface? YES NO 10 mo</p> <p>2. Discharge of sewage to drain tile or surface waters? YES NO 10 mo</p> <p>3. Sewage backup into dwelling? YES NO 10 mo</p> <p>4. Situation with the potential immediately and adversely impact or threaten public health or safety? YES NO 10 mo</p> <p><u>Is the system failing?</u></p> <p>5. Less than THREE feet of vertical separation between system bottom and saturated soil or bedrock? YES NO LGU**</p> <p>6. A seepage pit, cesspool, drywell, or leaching pit? YES NO LGU**</p> |

** LGU = Local Unit of Government ordinance must specify the time period within which the system must be upgraded.

STATUS OF THE SYSTEM

Based on the compliance criteria above the system status is (check one) in compliance (functioning) failing an imminent threat therefore, this document is a (check one) Certificate of Compliance Notice of Noncompliance.

What methods were used to make the determinations for the compliance inspection? _____

Please attach the following:

- 1) Site sketch. Suggested items for drawing include: Well, well setback to system, dwelling or other establishment, tank(s), soil treatment system, reserved soil treatment area, curtain drain, property lines, waterways, and buried lines (those NOT installed by the utility). Include sizes and length and approximate distances from fixed reference points such as streets and buildings.
- 2) Soil boring logs, showing each horizon. Indicate the texture, structure, color, depth of each different soil type, evidence of mottling, bedrock and standing water and whether the material is fill. Locate each boring on attached site sketch.
- 3) A list of any and all requirements of the local ordinance that are different than the state requirements referred to on this form.

CERTIFICATION

A. I hereby certify that all the information I have provided regarding the individual sewage treatment system is true, accurate, and complete.

Property Owner _____ Date _____

B. I hereby certify as a state of Minnesota licensed Inspector and/or Designer I or Qualified Employee Inspector and/or Qualified Employee Designer I that I conducted an investigation in accordance with applicable requirements that accurately determined the compliance status of this system and that my observations recorded are accurate as of this date. No determination of future hydraulic performance has been nor can be made due to unknown conditions during system construction, abuse of the system, inadequate maintenance, or future water usage.

Inspector's name (print) JACK E. GILL Phone 612-789-3354

License and/or Registration Number 604 Address PO Box 21296, Mpls, MN 55421

Employed by PBI Environmental Services Address PO Box 21296, Mpls, MN 55421

Valid until _____, unless the system becomes an imminent threat to public health or safety as defined at Minn. R. 7080.0020, subp. 19a, before that time.

Signature _____ Date _____

Upgrade Criteria

Minnesota Statutes § 115.55 ("law") Upgrade Requirements

Any situation with the potential to immediately and adversely affect or threaten public health or safety, must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period of time if required by local ordinance.

If the local unit of government with jurisdiction over the system has adopted an ordinance containing alternative local standards, the existing system must comply with the ordinance. If the system does not comply with the ordinance, it must be upgraded, replaced, or its use discontinued according to the ordinance.

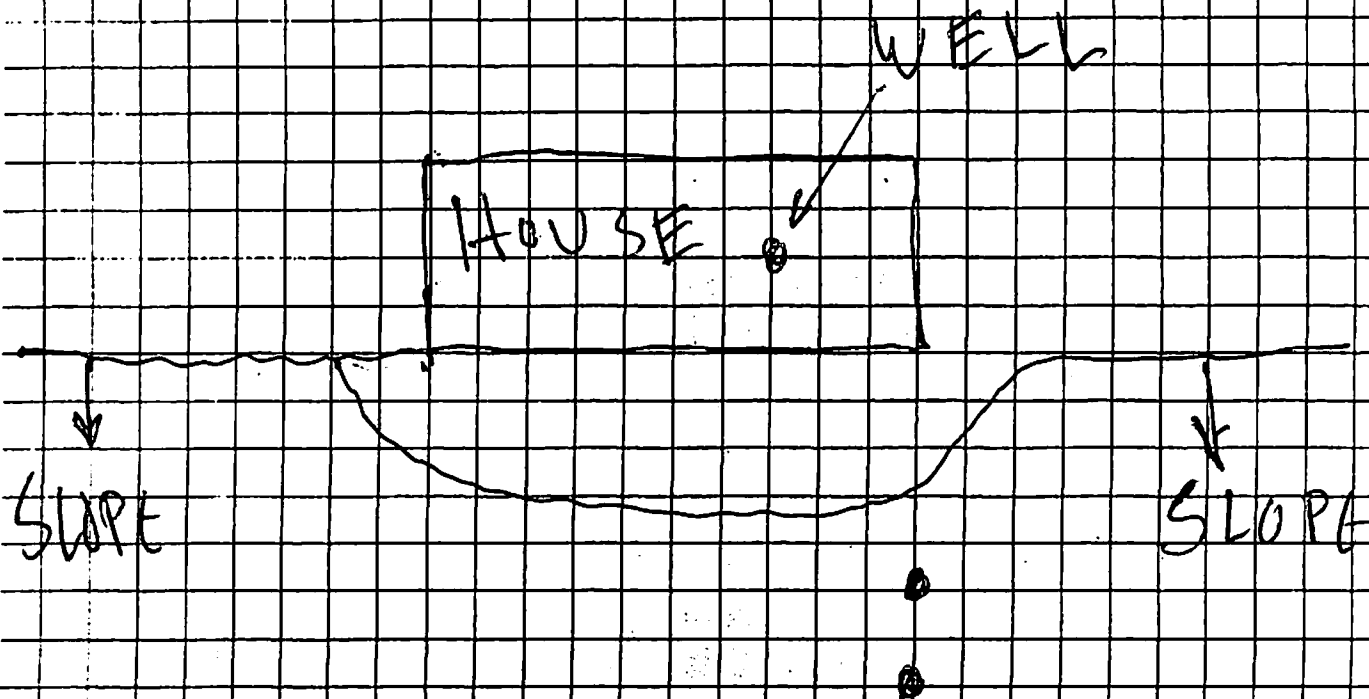
If a seepage pit, drywell, cesspool, or leaching pit exists and the local unit of government with jurisdiction over the system has not adopted local standards to the contrary, the system is failing and must be upgraded, replaced, or its use discontinued within the time required by local ordinance.

If the system fails to provide sufficient groundwater protection, then the local unit of government or its agent shall order that the system be upgraded, replaced, or its use discontinued within the time required by rule or the 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 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.

THIS SITE DRAWING IS NOT "DRAWN TO SCALE"

Do not use this drawing to determine measurements, or to calculate areas, etc. This drawing is to provide only a rough location of the house, septic system, water well, etc. The size of the drainfield has not been determined or verified, only the approximate thickness and depth of the drainfield has been determined, for the purposes of assisting to determine MPCA drainfield separation (to seasonally saturated soil) requirements. No size, area, or location of the drainfield is implied by this drawing.



PBI

Professional Building
Inspections and
Environmental Services

"SITE DRAWING"
Property Address

991 Neal Ave. N.

DRAWN BY J-G

CHECKED BY JEG

FILE

SCALE NO SCALE

FIGURE NO.

**Washington County Department of Health
Environment & Land Management**

Phone: 651-430-6688 Fax: 651-430-6730

ATTENTION: Judy Johnson

Date and Time Requested: 11-9 11:15

This is a RUSH: YES X NO

Please fax us copies of all septic system design records, permits issued and copies of soil borings for the property listed below:

Current Owner: Ed Sievers

Address: 991 Neal Ave N.

City: West Lakeland

Year Constructed: older

Thank you in advance for your help!!

Jack E. Gill
Professional Building Inspections
and Environmental Services

FAX: 612-781-2471

PHONE: 612-789-3354

20 yrs
6 or 7 yrs
Melvin / [unclear]
who did [unclear]
rework?
x [unclear] !!
what?

MINNESOTA POLLUTION CONTROL AGENCY
INDIVIDUAL SEWAGE TREATMENT SYSTEMS UNIT

February 5, 1996

What is a Compliance Inspection?

In the past, township, city and county (LUG) ordinances provided compliance inspection requirements appropriate for their individual programs. Areas without ordinances had no criteria to follow. Now, Minn. Rules ch. 7080 provides a minimum definition and criteria for the state (rule excerpts follow). LUG's can still make the requirements for a compliance inspection more restrictive than Chapter 7080 in their ordinances if they are submitted to the Minnesota Pollution Control Agency (MPCA). Check with your LUGs for more restrictive requirements.

Statewide Minimum Standard for Compliance Inspection

"Compliance inspection" is defined under Minn. Rules ch. 7080 as follows:

7080.0020 DEFINITIONS

Subp. 11d. **Compliance inspection.** "Compliance inspection" means any evaluation, investigation, inspection, or other such process to make conclusions, recommendations, or statements regarding an individual sewage treatment system to reasonably assure an individual sewage treatment system is in compliance as specified under part 7080.0060. Compliance inspections must be conducted by a qualified employee or under a license independent of the owner and the installer.

7080.0060 COMPLIANCE CRITERIA.

Subp. 3. **Compliance.** Individual sewage treatment systems shall be considered in compliance if:

- A. an existing individual sewage treatment system is not a failing system as defined in part 7080.0020, subpart 16a; or
- B. new construction or replacement meets the technical standards and criteria defined in part 7080.0020, subpart 46a.

7080.0020 DEFINITIONS

Subp. 16a. **Failing system.** "Failing system" means any system that discharges sewage to a seepage pit, cesspool, drywell, or leaching pit and any system with less than three feet of soil or sand between the bottom of the distribution medium and the saturated soil level or bedrock. In addition, any system posing an imminent threat to public health or safety as defined in subpart 19a shall be considered failing. Upgrade requirements for these systems are found under parts 7080.0060, subparts 3 and 4, and 7080.0315 or 7080.0350.

Subp. 19a. **Imminent threat to public health or safety.** "Imminent threat to public health or safety" means situations with the potential to immediately and adversely impact or threaten public health or safety. At a minimum, ground surface or surface water discharges and any system causing sewage backup into a dwelling or other establishment shall constitute an imminent threat.

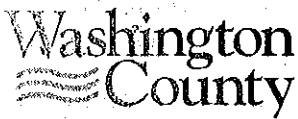
Subp. 46a. **Technical standards and criteria.** "Technical standards and criteria" means parts 7080.0020, 7080.0060 to 7080.0176, and 7080.0910.

After December 31, 1995, a compliance inspection must be conducted for all new construction of an individual sewage treatment system (ISTS), before a variance is granted for the replacement of an ISTS, and before a building permit or variance is issued for the addition of a bedroom or bathroom. Some LUG ordinances require a compliance inspection at property transfer. This is not a state requirement; however, a complete compliance inspection must be conducted for the ISTS disclosure if anyone other than the property owner evaluates the system for this purpose. Failing systems must be upgraded, replaced, repaired or discontinued use according to the time periods within local ordinances, or, in areas without an ordinance, within the time period established by the MPCA. Systems posing an imminent threat to public health or safety must be addressed within the time period established by the LUG, with a statewide maximum time period of 10 months.

After a compliance inspection is completed, a Certificate of Compliance or Notice of Noncompliance must be submitted to the system owner within 30 days after the date of inspection. Notices of Noncompliance must also be submitted to the MPCA commissioner in areas that are not governed by an ISTS ordinance or a bedroom/bathroom ordinance and sent to the LUG in areas governed by at least one of these ordinances. The MPCA has developed an inspection form that includes the Certificate of Compliance and Notice of Noncompliance. Call (612) 296-7309 for a master copy. The requirements for these documents are under rule parts 7080.0315, subpart 3, and 7080.0305, subpart 2, item A (2).

Compliance inspections conducted before April 1, 1996, must be completed by individuals appropriately licensed by a county, city or township. After April 1, 1996, inspections must be completed by employees of a business with a state Designer I or Inspector license or county, city, or township employees with state Designer I or Inspector registration. The inspector must be independent of the ISTS owner and the installer for new construction and replacement.

Businesses with state Designer II, Installer or Pumper licenses cannot conduct compliance inspections. However, maintenance and repair problems can be reported to system owners under an Installer license and problems related to sewage tanks, dosing chambers, baffles, maintenance hole (previously manhole) covers and extensions and pumps and evaluations of water tightness can be reported under a Pumper license.



Department of Public Health and Environment
 14949 62nd Street North PO Box 6
 Stillwater MN 55082-0006
 Office: 651-430-6655 TTY: 651-430-6246 Fax: 651-430-6730

| | |
|--------------------|-----------------|
| Review Fee: | \$260.00 |
| Permit Fee: | \$270.00 |
| Total Fee: | \$530.00 |
| Previous Payment | \$0.00 |
| Balance Due | \$530.00 |

Community: West Lakeland Township
 Permit Number: 0017-08-9
 Owner: Levi Lindeman
 991 Neal AVE
 Stillwater MN 55082-
 Applicant: Levi Lindeman

PERMISSION IS HEREBY GRANTED

To execute the work specified in this permit on the following identified property upon express condition that said persons and their agents, and employees shall conform in all respects to the provisions of Ordinance #128, Washington County Development Code, Chapter Four, Individual Sewage Treatment System Regulations. This permit may be revoked at any time upon violation of any of the provisions of said ordinance.

Project Address: 991 Neal AVE N
 Geo Code: 32-029-20-22-0015
 Designer: Eklin Soil Testing & Inspections, Inc.

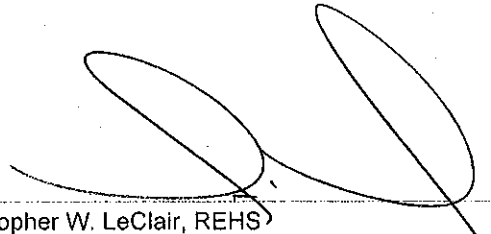
| | | | |
|-------------------------------------|-------------|-----------------------|-----------------|
| Type of System: Standard Drainfield | | Pressure Distribution | |
| | | N/A | |
| Design Criteria | | Drainfield Sizing | |
| Percolation Rate: | 10 | Square Feet: | 600 |
| Depth To Restriction: | 72 | Lineal: | 200 Feet |
| Land Slope: | 8.00% | Depth Of Rock Below: | 12 Inches |
| Flow Rate: | 300 | Maximum Trench Depth: | 36 Inches |
| Number of Bedrooms: | 0 | Number Of Trenches: | 4 |
| Gravelless | | Length Of Trenches: | 50 Feet |
| Chambered | | Spacing Of Trenches: | 7 Feet |
| Tank Sizes | | | |
| Tank 1: 1000 | Tank 2: 500 | Tank 3: 0 | Lift Station: 0 |

Authorized Work/Special Conditions

1. Building sewer can be no closer than 20 feet from well and must be pressure tested Schedule 40 within 50 feet.
2. Domestic strength waste only. Industrial waste and hazardous wastes cannot enter the septic system.
3. Establish a vegetative cover over the soil treatment area within 30 days of the installation. Protect the soil treatment area from erosion until the vegetative cover is established.
4. Maximum trench depth 36 inches into natural soil.
5. Rock only. No chambers. No gravelless.
6. This system must be installed by a certified/licensed sewage treatment system installer holding a current license with the Minnesota Pollution Control Agency. (A list of installers is available at your request.)

0017-08-9

Permit Issue Date: 10/29/2008
 Permit Expiration Date: 10/29/2009


 Christopher W. LeClair, REHS
 Senior Environmental Specialist

Individual Sewage Treatment System Inspection Form

| | |
|-----------------------------------|--|
| Project Address: 991 Neal AVE N | Application ID: 0017-08-9 |
| Community: West Lakeland Township | Geo Code: 32-029-20-22-0015 |
| Owner: Levi Lindeman | Type of System: Standard Drainfield |
| Applicant: Levi Lindeman | Designer: Eklin Soil Testing & Inspections, Inc. |

| | | |
|--|--|---|
| Type of Installation: <input type="checkbox"/> New <input type="checkbox"/> Repair <input type="checkbox"/> Replacement <input type="checkbox"/> Other | Type of Inspection: <input type="checkbox"/> Site Review <input type="checkbox"/> Tank <input type="checkbox"/> Rough-Up <input type="checkbox"/> Treatment Area <input type="checkbox"/> Final | Inspector: <input type="checkbox"/> Pete Ganzel <input type="checkbox"/> Chris, LeClair <input type="checkbox"/> Other |
| Number of Bedrooms: | Inspection Dates: | |

Installer: _____

| Site Review | Mounds / At-Grade |
|---|--|
| Date: _____ Conclusions: <input type="checkbox"/> Soil Boring <input checked="" type="checkbox"/> Soil Pit Depth of Pit/Boring _____ Comments _____ <input type="checkbox"/> Site Suitable <input type="checkbox"/> Site Unsuitable <input type="checkbox"/> Additional Tests Required | <input type="checkbox"/> Mound <input type="checkbox"/> At-Grade Absorption Area _____ Percent Slope _____ Sand Below Bed _____ Upslope Width _____ Rock Below Pipe _____ Downslope Width _____ Perf Size/Spacing _____ Sideslope Width _____ Pipe Size/Spacing _____ Pressure Bed Dimensions: Length _____ Width _____ |

| Sewage / Holding Tanks | Pump Information |
|--|--|
| Tank 1 <input type="checkbox"/> New <input type="checkbox"/> Existing Tank 2 <input type="checkbox"/> New <input type="checkbox"/> Existing Baffle Type <input type="checkbox"/> Plastic <input type="checkbox"/> Fiberglass <input type="checkbox"/> San-T <input type="checkbox"/> Concrete | Lift Station Capacity _____ Feet of Head _____ Horsepower/GPM _____ Size of Discharge Line: _____ Gallons Per Cycle _____ Type/Location or Alarm _____ Gallons Per Minute _____ |

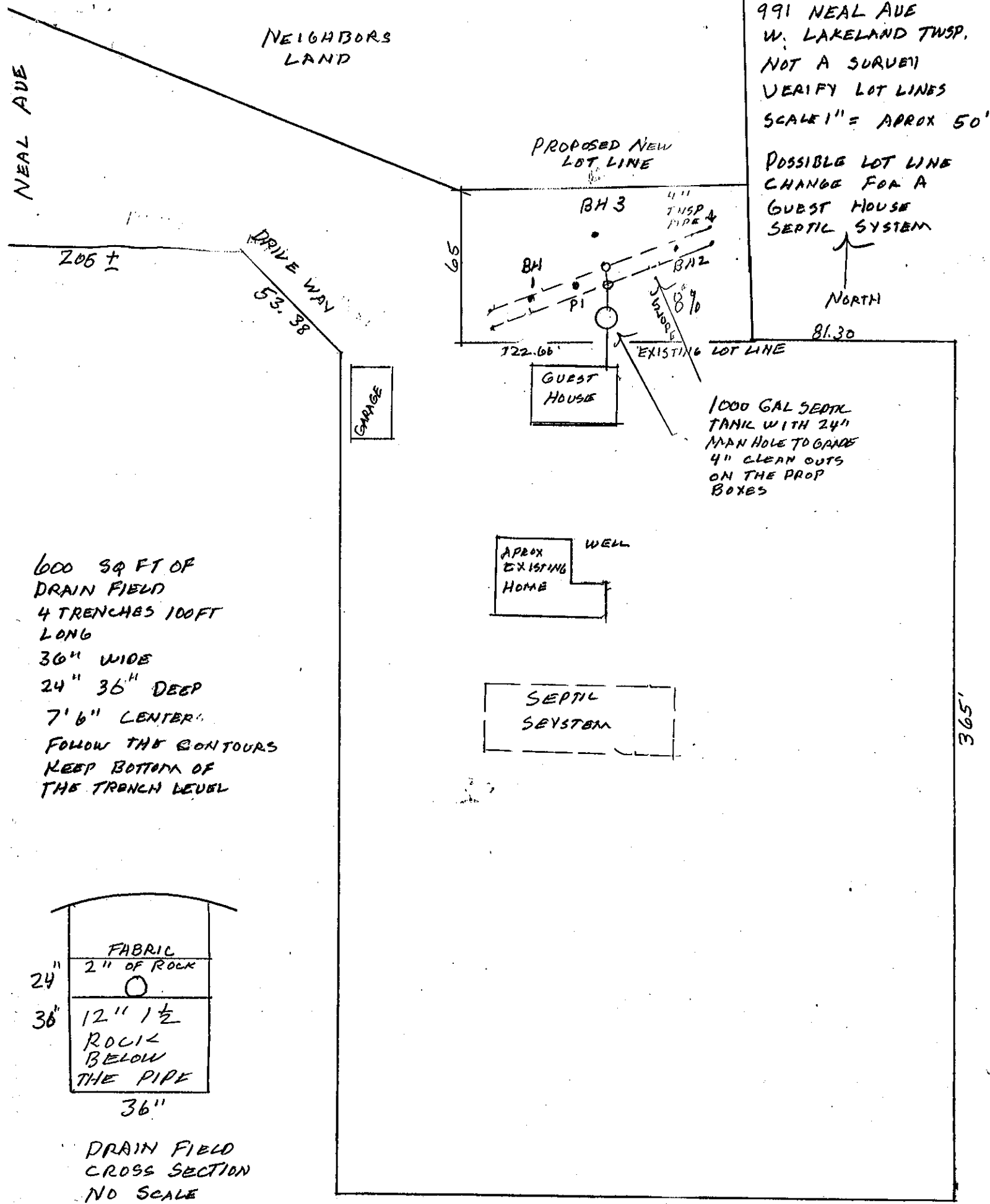
| Trenches, Bed or Gravelless Drainfield | Setbacks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------|--------------------|--------------------------------------|------------------------------|-----------------|--|----------|--|----------|------------------------------|-----------------------------|--|----------|--|----------|------------------------------|------------------------------|--|----------|--|----------|--------------------------------------|------------------------------|--|----------|--|----------|----------------------|------------------------------|--|
| <input type="checkbox"/> Drop Box <input type="checkbox"/> Distribution Box <input type="checkbox"/> Gravity <input type="checkbox"/> Pump Trench <input type="checkbox"/> Pressure Bed <input type="checkbox"/> Serial <input type="checkbox"/> Parallel <input type="checkbox"/> Chambers <input type="checkbox"/> Gravelless <input type="checkbox"/> 8" <input type="checkbox"/> 10" | Building(s) to tanks _____ Building(s) to drainfield _____ Surface Water _____ Property Lines _____ Wells <input type="checkbox"/> 50' <input type="checkbox"/> 100' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Trench Depth (in)</td> <td>T1 _____</td> <td>Trench Length (ft)</td> <td>T1 _____</td> <td>Trench Width</td> <td>Rock Below Pipe</td> </tr> <tr> <td></td> <td>T2 _____</td> <td></td> <td>T2 _____</td> <td><input type="checkbox"/> 24"</td> <td><input type="checkbox"/> 6"</td> </tr> <tr> <td></td> <td>T3 _____</td> <td></td> <td>T3 _____</td> <td><input type="checkbox"/> 36"</td> <td><input type="checkbox"/> 12"</td> </tr> <tr> <td></td> <td>T4 _____</td> <td></td> <td>T4 _____</td> <td><input type="checkbox"/> Other _____</td> <td><input type="checkbox"/> 18"</td> </tr> <tr> <td></td> <td>T5 _____</td> <td></td> <td>T5 _____</td> <td>Trench Spacing _____</td> <td><input type="checkbox"/> 24"</td> </tr> </table> | Trench Depth (in) | T1 _____ | Trench Length (ft) | T1 _____ | Trench Width | Rock Below Pipe | | T2 _____ | | T2 _____ | <input type="checkbox"/> 24" | <input type="checkbox"/> 6" | | T3 _____ | | T3 _____ | <input type="checkbox"/> 36" | <input type="checkbox"/> 12" | | T4 _____ | | T4 _____ | <input type="checkbox"/> Other _____ | <input type="checkbox"/> 18" | | T5 _____ | | T5 _____ | Trench Spacing _____ | <input type="checkbox"/> 24" | <div style="background-color: #333; color: white; text-align: center; padding: 5px;">Pressure Test</div> Time _____ Time _____ PSI _____ PSI _____ |
| Trench Depth (in) | T1 _____ | Trench Length (ft) | T1 _____ | Trench Width | Rock Below Pipe | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | T2 _____ | | T2 _____ | <input type="checkbox"/> 24" | <input type="checkbox"/> 6" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | T3 _____ | | T3 _____ | <input type="checkbox"/> 36" | <input type="checkbox"/> 12" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | T4 _____ | | T4 _____ | <input type="checkbox"/> Other _____ | <input type="checkbox"/> 18" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | T5 _____ | | T5 _____ | Trench Spacing _____ | <input type="checkbox"/> 24" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pressure Bed Dimensions: Length _____ Width _____ Absorption Area _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Comments _____

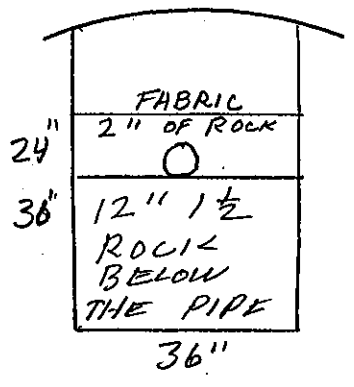
Inspector _____

LEVI LINDEMAN
 991 NEAL AVE
 W. LAKELAND TOWNSHIP
 NOT A SURVEY
 VERIFY LOT LINES
 SCALE 1" = APPROX 50'

POSSIBLE LOT LINE
 CHANGE FOR A
 GUEST HOUSE
 SEPTIC SYSTEM



600 SQ FT OF
 DRAIN FIELD
 4 TRENCHES 100 FT
 LONG
 36" WIDE
 24" 36" DEEP
 7' 6" CENTER
 FOLLOW THE CONTOURS
 KEEP BOTTOM OF
 THE TRENCH LEVEL



DRAIN FIELD
 CROSS SECTION
 NO SCALE

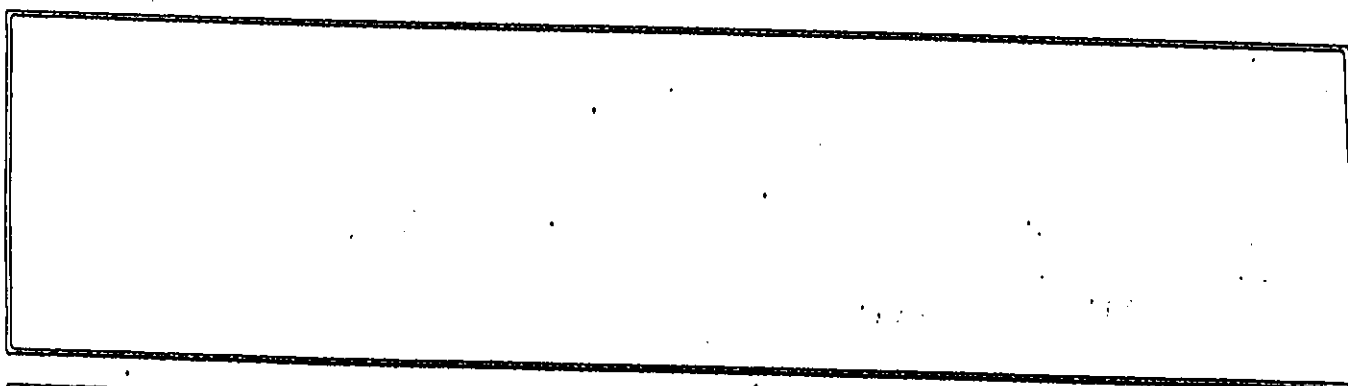


Eklin Soil Testing & Inspections

MPCA License # 410
 (651) 337-1300

| | |
|------------------|---------------------------------|
| Owner's Name | LEVI LINDEMAN |
| Job Site Address | 991 NEAL AVE |
| City or Township | W. LAKE LAND TOWNSHIP |
| Use of Building | POOL - GUEST HOUSE - 2 BEDROOMS |

| | | | | | | |
|---|---|-----------|-------------|--------------------------|---|------------|
| Design Flow Rate | 300 +/- G.P.D. | Perc Rate | 10 MPI | Land Slope | 8 | Percent |
| Two Required Tank Sizes | 1000 Gallons | | Gallons | LN Station Tank Size | | Gallons |
| Type of System (standard, at grade or bed) | STANDARD | | | | | |
| System Size: | 600 Square Feet | 200 | Linear Feet | 36" | Trench Width | |
| Depth of rock below pipe | 12" | | | Depth of Rock Above Pipe | 2" | |
| Minimum Depth of Trench From Existing Grade | 24" | Inches | | | Maximum Depth of Trench From Existing Grade | 36" Inches |
| Recommended Number of Trenches | 4 | | | | Recommended Length of Trenches | 50 FT |
| Trench Spacing Measured Center to Center | | | | | 7 Feet | |
| Any Other Special Conditions | FENCE OFF THE TEST SIDE BEFORE GRADING | | | | | |



| | |
|---|------------------------------|
| This system has been designed by a Pollution Control Agency (PCA) Certified Professional. | |
| Designer Name | EDWIN EKLIN |
| Address | 229 CIMARRON LAKE ELMO 55042 |
| Signature | Edwin Eklin |
| PCA Certification # | 3268 |
| Phone # | 651-337-1300 |
| Date | 9.23.2008 |

PERCOLATION DATA

JOB

LEVI LINDEMAN
991 NEAL AVE
WEST LAKE LAND

BOREHOLE #

1

BOREHOLE DEPTH

30" SIGNED _____
2008

BOREHOLE DIAMETER

6"

| DEPTH | SOIL DESCRIPTION |
|-------|------------------|
| | |
| | |
| | |
| | |
| | |
| | |

| DEPTH | SOIL DESCRIPTION |
|-------|-----------------------|
| 12 | TOP SOIL SANDY LOAM |
| 30 | BLACK FINE SANDY LOAM |
| | |
| | |
| | |

| TIME | READING MEASUREMENT | DROP | COMMENTS |
|------|---------------------|------|----------|
| 1040 | 5 | 1 | 10 MPI |
| 1040 | 6 | | FILL |
| 1050 | 5 | 1 | 10 MPI |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| TIME | READING MEASUREMENT | DROP | COMMENTS |
|------|---------------------|------|----------|
| 950 | 6 | | FILL |
| 1000 | 5 1/8 | 7/8 | 8.9 MPI |
| 1000 | 6 | | FILL |
| 1010 | 5 1/8 | 7/8 | 8.9 MPI |
| 1010 | 6 | | FILL |
| 1020 | 5 | 1 | 10 MPI |
| 1020 | 6 | | FILL |
| 1030 | 5 1/8 | 7/8 | 8.9 MPI |
| 1030 | 6 | | FILL |

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This not only helps in tracking expenses but also ensures compliance with tax regulations.

In the second section, the author outlines the various methods used to collect and analyze data. This includes both primary and secondary research techniques. The primary research involves direct observation and interviews, while secondary research involves analyzing existing data sources.

The third section focuses on the results of the study. It presents a detailed analysis of the data collected, highlighting key findings and trends. The author notes that there is a significant correlation between the variables studied, which supports the hypothesis of the research.

Finally, the document concludes with a summary of the findings and recommendations for future research. It suggests that further studies should be conducted to explore the underlying causes of the observed trends and to test the findings in different contexts.

JOB LEW LINDERMAN

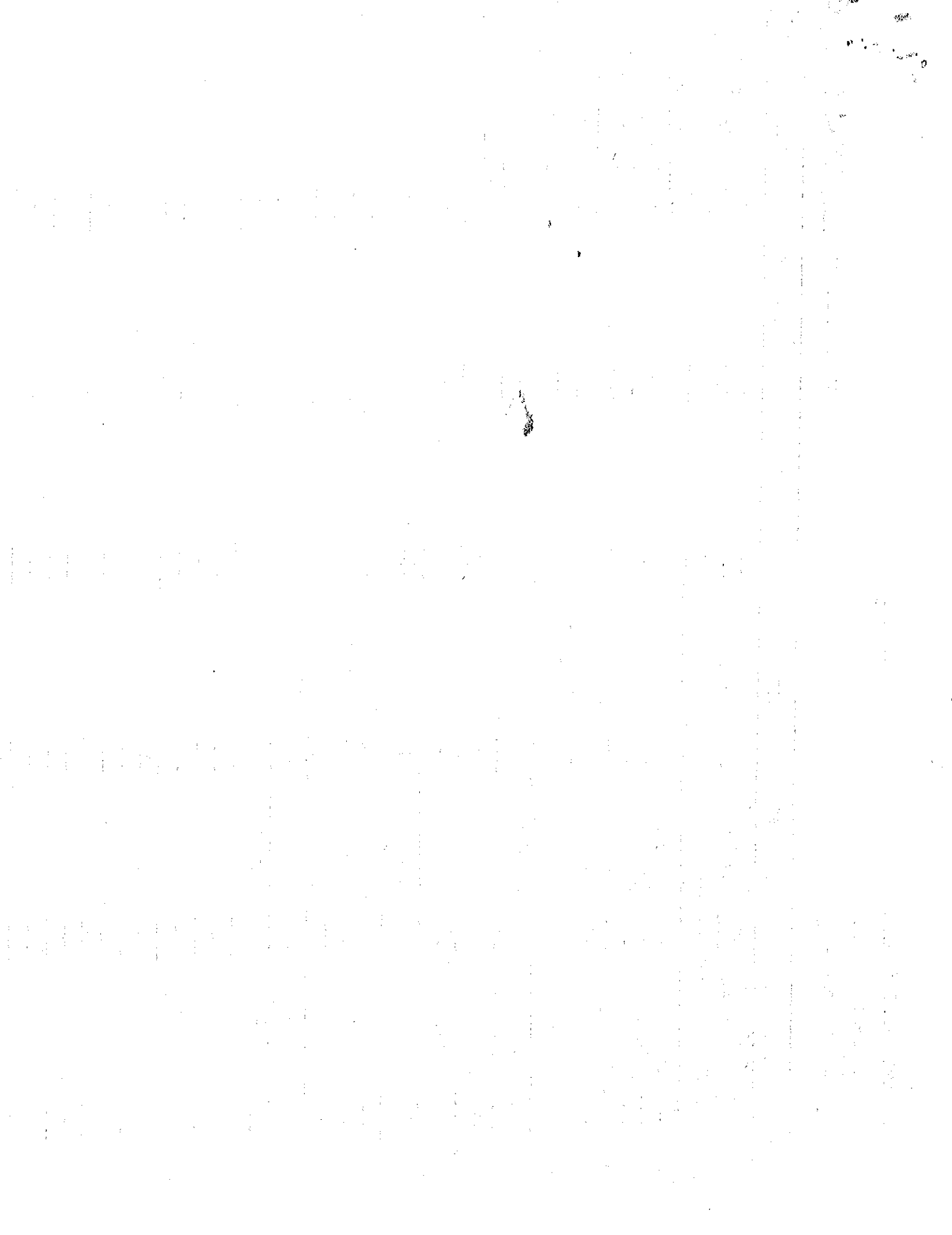
BORING LOG

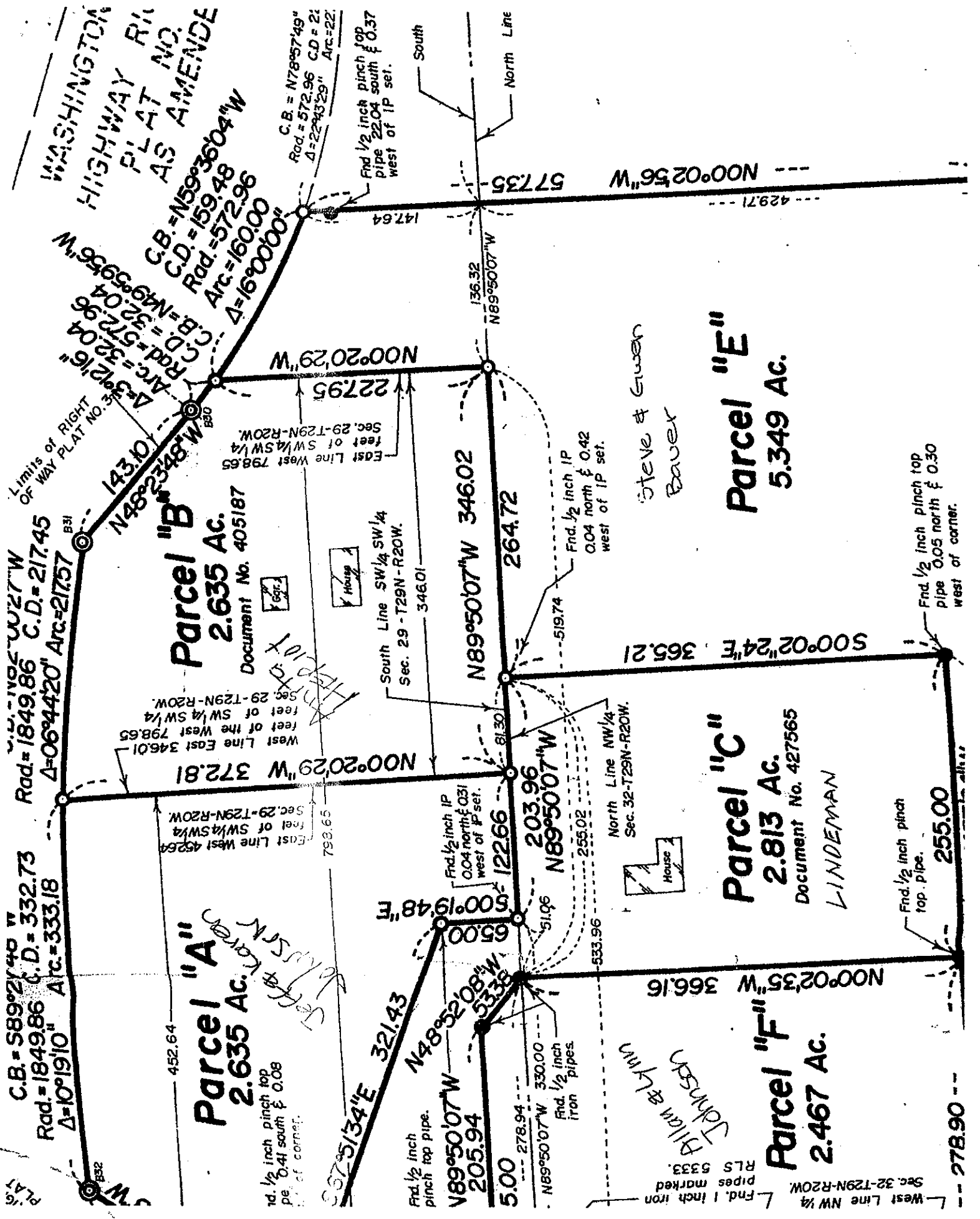
991 NEAL AVE.
W. LAKE LAND

DATE 9-16-2008

BOREHOLE DIAMETER 4" 3 1/2" 2 1/2"

| DEPTH FEET | HOLE #1 | HOLE #2 | HOLE #3 | HOLE #4 | HOLE #5 | HOLE #6 |
|------------|--|--|------------------------|---------|---------|--|
| 1 | TOP SOIL BLACK FINE SANDY LOAM | TOP SOIL BLACK FINE SANDY LOAM | TOP SOIL BLACK LOAM | | | CLASSIFICATION TOP SOIL BLACK LOAM 10YR 2/1 |
| 2 | BROWN FINE SANDY LOAM | BLACK FINE SANDY LOAM | BLACK LOAM ROCKS | | | BROWN LOAM 10YR 4/3 |
| 3 | YELLOWISH BROWN SANDY LOAM ROCKS | BLACK LOAM | | | | YELLOWISH BROWN LOAM 10YR 5/4 BLACK LOAM 10YR 2/1 |
| 4 | | | | | | |
| 5 | | YELLOWISH BROWN SANDY LOAM ROCKS | CAVING STOP | | | |
| 6 | STOP OK 6' | | OK 5' + | | | |
| 7 | | STOP OK 6' + | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |





C.B. = 589°21'40" W
 Rad. = 1849.86 C.D. = 332.73
 Rad. = 1849.86 C.D. = 217.45
 Δ = 10°19'10" Arc. = 333.18
 B32

WASHINGTON
 HIGHWAY RIGHT
 OF WAY PLAT NO. 3
 AS AMENDE
 PLAT NO.
 C.B. = N59°36'04" W
 C.D. = 159.48
 Rad. = 572.96
 Δ = 16°00'00" Arc. = 160.00
 C.B. = N49°39'56" W
 C.D. = 312.04
 Rad. = 572.96
 Δ = 31°16' Arc. = 320.04
 B30

Parcel "A"
 2.635 Ac.
 Document No. 405187
 West Line East 346.01
 feet of the West 798.65
 Sec. 29-T29N-R20W.
 East Line West 452.64
 feet of SW 1/4 SW 1/4
 Sec. 29-T29N-R20W.
 798.65
 Fnd. 1/2 inch pinch top
 pipe 0.41 south & 0.08
 west of corner.

Parcel "B"
 2.635 Ac.
 Document No. 405187
 West Line East 346.01
 feet of the West 798.65
 Sec. 29-T29N-R20W.
 East Line West 452.64
 feet of SW 1/4 SW 1/4
 Sec. 29-T29N-R20W.
 798.65
 Fnd. 1/2 inch IP
 0.04 north & 0.31
 west of IP set.

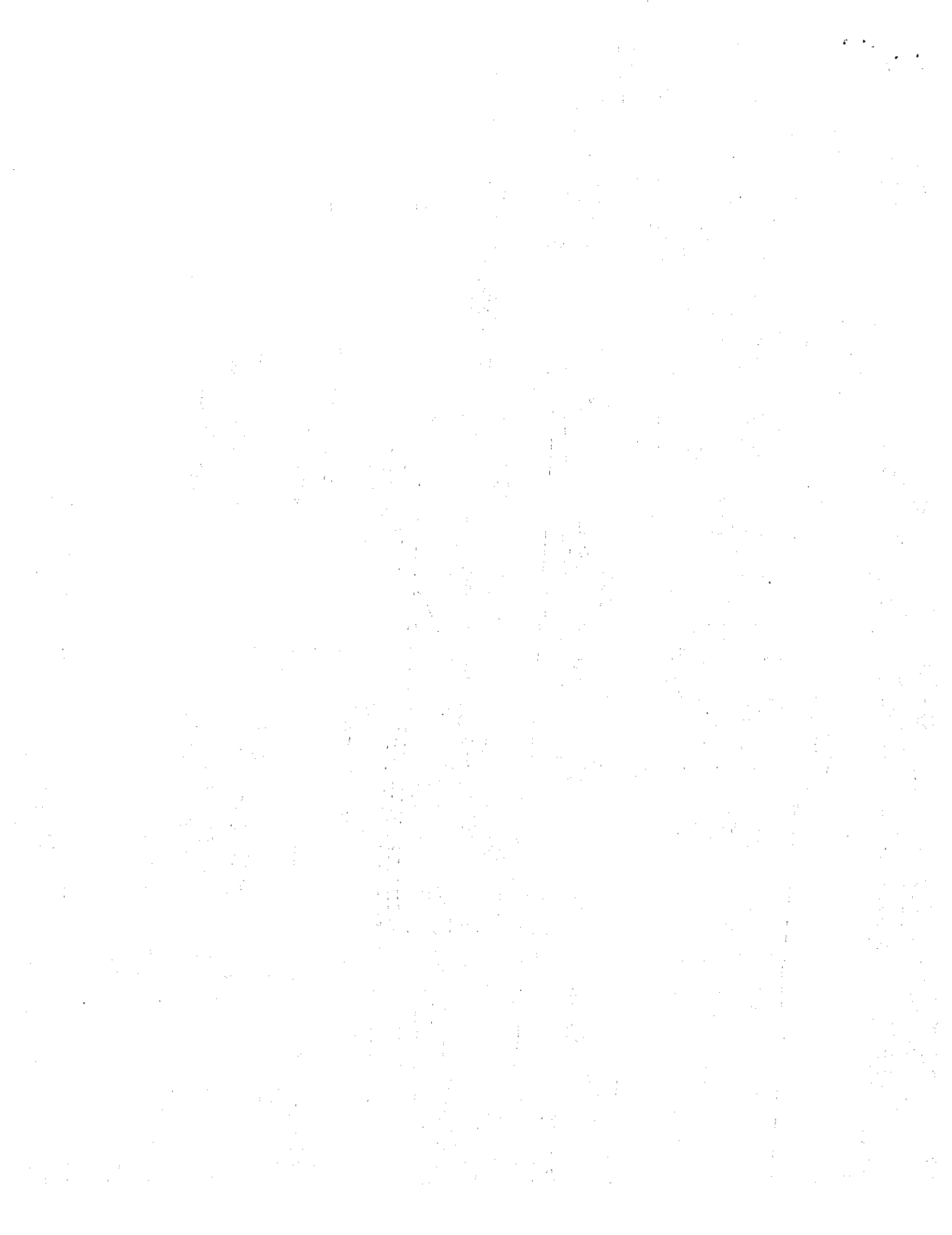
Parcel "C"
 2.813 Ac.
 Document No. 427565
 North Line NW 1/4
 Sec. 32-T29N-R20W.
 255.02
 Fnd. 1/2 inch pinch
 top pipe.
 255.00

Parcel "D"
 2.467 Ac.
 Document No. 427565
 West Line NW 1/4
 Sec. 32-T29N-R20W.
 278.90
 Fnd. 1/2 inch iron
 pipes marked
 RLS 5333.

Parcel "E"
 5.349 Ac.
 Steve & Ewson
 Bauer
 Fnd. 1/2 inch pinch top
 pipe 0.05 north & 0.30
 west of corner.

Parcel "F"
 2.467 Ac.
 Document No. 427565
 West Line NW 1/4
 Sec. 32-T29N-R20W.
 278.90
 Fnd. 1/2 inch iron
 pipes marked
 RLS 5333.

Fnd. 1/2 inch pinch top
 pipe 0.37
 west of IP set.
 C.B. = N78°57'49"
 Rad. = 572.96 C.D. = 217.45
 Δ = 22°43'29" Arc. = 222.00
 147.64
 57.735
 N00°02'56" W
 429.71
 136.32
 N89°50'07" W
 227.95
 N00°20'29" W
 227.95
 East Line West 798.65
 feet of SW 1/4 SW 1/4
 Sec. 29-T29N-R20W.
 346.01
 South Line SW 1/4 SW 1/4
 Sec. 29-T29N-R20W.
 519.74
 Fnd. 1/2 inch IP
 0.04 north & 0.42
 west of IP set.
 365.21
 500°02'24" E
 365.21
 264.72
 N89°50'07" W 346.02
 81.30
 203.96
 N89°50'07" W
 255.02
 North Line NW 1/4
 Sec. 32-T29N-R20W.
 533.96
 51.06
 500°19'48" E
 122.66
 500°02'35" W 366.16
 321.43
 148°52'08" W
 533.38
 Fnd. 1/2 inch
 iron pipes.
 330.00
 N89°50'07" W
 278.94
 5.00
 Fnd. 1/2 inch
 pinch top pipe.
 205.94
 V89°50'07" W
 205.94
 5.00
 Fnd. 1/2 inch
 pinch top pipe.



EKLIN SOIL TESTING AND INSPECTIONS, INC.

299 Cimarron
Lake Elmo, MN 55042
(651) 337-1300

Levi Lindeman
991 Neal Avenue
Stillwater, MN 55082

September 23, 2008

Dear Levi,

On September 16, 2008, soil borings and percolation tests were performed at 991 Neal Avenue, West Lakeland. The soil work was done for your planned pool and guest home.

Soil borings indicate there is a three foot separation from the bottom of the drainfield trench to water table. The percolation rate was 10 MPI.

For your two bedroom guest home, a 1000 gallon septic tank will be needed. 600 square feet of drainfield is recommended. The drainfield will consist of four runs, three feet wide, 30" to 36" deep and 50 feet long. There should be 12" of rock below the pipe and 2" of rock over the pipe. It will take approximately 40 yards of inch and a half washed rock for this job. Before backfilling, an approved Geotech fabric should be put down over the rock to keep the backfill from sifting into the drainfield. It is important to establish cover over the drainfield as soon as possible. Rain water getting into the system could cause the system to fail.

See the attached papers for suggested design and boring and percolation logs.

DURING CONSTRUCTION IT IS IMPORTANT TO KEEP ALL TRAFFIC OFF OF THE DRAINFIELD AREA SO THE GROUND WILL NOT BECOME COMPACTED. YOU SHOULD FENCE OR FLAG OFF THE TESTED AREA BEFORE ANY EXCAVATION IS DONE ON THE SITE.

Low flush toilets and restricted shower heads would cut your water usage down. If a water softener is installed, it can drain directly to the wetlands or a low spot on the lot as this contains no harmful chemicals and it is legal. These recommendations are a very good practice to follow on all septic systems, whether they be mounds or the conventional

continued.....



trench systems. If hot tubs or over sized bath tubs are used, it would be advisable to enlarge the drainfield.

It is important to maintain your septic system by pumping the septic tank periodically. The number of people using the system will determine how often this has to be done. Some communities may require pumping periodically. You should check with your local authorities about this. If the septic tank is not pumped when needed, sludge can build up and work over into the drainfield and cause the field to stop up. Never hook basement footing drains to your septic system. Always try to conserve on water use.

During winter months it is also very important to keep all traffic off of the drainfield area; snowmobiles, skiing, sliding, etc. If snow becomes compacted it could cause your drainfield to freeze up.

This report does not mean that you have a permit to install the job. Your local inspector will have to first approve the suggested design and logs. In some cases other agencies may require a permit. If near a lake, wetland or drainage ditch, or if you are filling any part of a low area or wetland, a permit may be needed from your local Watershed District or the Department of Natural Resources. In some cases, the Minnesota Pollution Control Agency or the Corps of Engineers may also require a permit. Your local authorities should be able to inform you of this.

If you have any questions, please call Dale or Ed.

Yours truly,



Ed Eklin
Certification No. 3268

...the ... of ...

...the ... of ...

...the ... of ...

...the ... of ...

...the ... of ...

...

...

...

...

...

...

...

...



Department of Public Health and Environment

14949 62nd Street North PO Box 6

Stillwater MN 55082-0006

Office: 651-430-6655 TTY: 651-430-6246 Facsimile Machine: 651-430-6730

Receipt

Number: 1330
 Date: 10/15/2008
 Check Number: 3113
 Received For: **Application #1900086**
 Application Type: Standard Drainfield
 Property Address: 991 Neal AVE *sw*
 Community: Lakeland
 Received From: Stephanie Lindemann

991 Neal AVE N
 West Lakeland MN 55082

Description

| | |
|-------------------------|-----------------|
| Review Fee: | \$260.00 |
| Permit Fee: | \$270.00 |
| Total Fee: | \$530.00 |
| Amount Received: | \$530.00 |
| Previous Payments: | \$0.00 |
| Balance Due: | \$0.00 |

Issued By: SJH



SEPTIC PERMIT APPLICATION

Washington County Department of Public Health & Environment
 14949-62nd St N, P.O. Box 6, Stillwater MN 55082-0006
 651.430.6688 FAX: 651.430.6730

2008

0017-08-9

PERMIT NUMBER

[Handwritten Signature]

PROPERTY & APPLICANT INFORMATION

| | | |
|--|---|---|
| PROPERTY ADDRESS: 991 NEAL AVE W. LAKELAND TWP | | GEOCODE: 3302920220015 |
| USE OF BUILDING: <input checked="" type="checkbox"/> SINGLE FAMILY HOME <i>GUEST HOUSE</i> | <input type="checkbox"/> NON-SINGLE FAMILY | APPLICATION TYPE: <input checked="" type="checkbox"/> NEW <input type="checkbox"/> REPLACEMENT |
| APPLICANT | | |
| NAME(S) LEVI LINDEMAN | ADDRESS 991 NEAL AVE CITY STILLWATER MN ZIP 55082 | PHONE NUMBER(S) 612-791-8809 or office # 651-203-1201 |
| NAME(S) | ADDRESS CITY ZIP | PHONE NUMBER(S) (203-1206) fox |

SYSTEM TYPE

| | | | | |
|---|---|--|--|---|
| <input checked="" type="checkbox"/> STANDARD SYSTEM | <input type="checkbox"/> ALTERNATIVE SYSTEM | <input type="checkbox"/> EXPERIMENTAL SYSTEM | <input type="checkbox"/> SUBDIVISION REVIEW | <input type="checkbox"/> LOT SPLIT |
| <input type="checkbox"/> DRAINFIELD | <input type="checkbox"/> PRESSURE BED | <input type="checkbox"/> MOUND | <input type="checkbox"/> AT-GRADE | <input type="checkbox"/> TANK REPLACEMENT |
| <input type="checkbox"/> CONSTRUCTED WETLAND | <input type="checkbox"/> COLLECTOR SYSTEM | <input type="checkbox"/> DRIP IRRIGATION | <input type="checkbox"/> HOLDING TANKS | <input type="checkbox"/> SAND FILTER |
| <input type="checkbox"/> FLOODPLAIN SYSTEM | <input type="checkbox"/> GREYWATER SYSTEM | <input type="checkbox"/> PRIVY | <input type="checkbox"/> AEROBIC TREATMENT UNIT SYSTEM | |

FEE SCHEDULE - 2008

| | | | |
|---|----------------------|------------------------------|-------------|
| <input checked="" type="checkbox"/> APPLICATION FEE/SOIL REVIEW | \$260 | APPLICATION FEE | <u>260-</u> |
| <input checked="" type="checkbox"/> PERMIT FEE - DRAINFIELD OR PRESSURE BED | \$270 | PERMIT FEE | <u>270-</u> |
| <input type="checkbox"/> PERMIT FEE - MOUND OR AT-GRADE | \$430 | SUBDIVISION REVIEW BASE FEE: | _____ |
| <input type="checkbox"/> PERMIT FEE - ALTERNATIVE SYSTEM | \$430 | LOTS: _____ X \$80 PER LOT | _____ |
| <input type="checkbox"/> PERMIT FEE - EXPERIMENTAL SYSTEM | \$430 | PENALTY | _____ |
| <input type="checkbox"/> PERMIT FEE - TANK REPLACEMENT | \$105 | TOTAL PERMIT FEE | <u>530-</u> |
| <input type="checkbox"/> SUBDIVISION REVIEW | \$180 + \$80 PER LOT | | |
| <input type="checkbox"/> PERMIT FEE - REISSUANCE OF EXPIRED PERMIT | \$125 | | |
| <input type="checkbox"/> PENALTY FOR FAILURE TO OBTAIN PERMIT PRIOR TO INSTALLATION | \$245 | | |

Make Checks Payable to WASHINGTON COUNTY

The following exhibits are required as part of the application and shall be attached hereto: Percolation Test Reports; Soil Boring Logs; Site Plan drawn to scale showing location of buildings, lot lines, percolation test holes, soil boring holes, proposed location of system and location of well(s); one (1) copy of the System Design; and one (1) copy of the Final Building Plan. The house and drainfield areas must be staked. Inaccurate or incomplete information will result in delays in processing.

AGREEMENT: The undersigned hereby makes Application for Permit to Install or Extend the Sewage Treatment System herein specified, agreeing that all work shall be done in strict accordance with ordinances and regulations of the County of Washington, Minnesota. Applicant agrees that the Site Plan, Sketches, and Design submitted herewith, and which are reviewed by Washington County, together with any requirements and/or restrictions made necessary by conditions peculiar to a particular location, shall become part of the permit. Applicant further agrees to provide access, at reasonable times, to Washington County for the purpose of performing inspections required and that no part of the system shall be covered until it has been inspected and accepted. APPLICATION IS FOR AN INSTALLATION AT A SPECIFIC LOCATION; ANY DEVIATION FROM THE APPROVED LOCATION WILL VOID THE PERMIT. It shall be the responsibility of the applicant for the permit to notify the Office of the Washington County Department of Public Health & Environment that the installation is ready for inspection.

PERMITS WILL NOT BE ISSUED ONCE FROZEN GROUND CONDITIONS EXIST due to the inability to conduct soil reviews unless arrangements are made BY THE APPLICANT to provide a backhoe, geo-probe, or any other device that can penetrate the frozen soil to allow Washington County to conduct a soil review. In accordance with Minnesota Statute 15.99, Subdivision 2, Washington County has up to SIXTY (60) DAYS to review and approve or deny the permit application.

I hereby certify the above to be true and correct. I hereby give the Washington County Department of Public Health & Environment permission to enter upon my property during normal business hours for the purpose of determining the suitability of the location, design, and construction, which may include minor excavations or soil borings by the Department.

[Handwritten Signature]

Signature of Applicant (Owner or Contractor)

10-14-08

Date

RECEIVED
OCT 14 2008

PUBLIC HEALTH

SITE EVALUATION

COUNTY USE ONLY

CHECK ALL THAT APPLY:

- NEW
- CLASS V
- EXISTING
- COMMERCIAL ESTABLISHMENT
- DWELLING
- FBL ESTABLISHMENT
- SHORELAND
- IN WELLHEAD PROTECTION AREA

EVALUATOR: CHRIS LECCLAIR

PROPERTY ADDRESS: 991 NEAL AVE N.

DATE: 22 OCT 2008 TIME: 12:55

GEOCODE:

SOIL REVIEW

| SOIL CLASSIFICATION: | | | | | PARENT MATERIAL: | | | | |
|--|--------------------|---------------------------------|------------|--------------------------------|---------------------------------|---------|------------------------------|-----------|--------------------------------|
| SOIL BORING 1 | | | | | SOIL BORING 2 | | | | |
| ELEVATION OF BORING: | | LOCATION: <u>IN TESTED AREA</u> | | | ELEVATION OF BORING: | | LOCATION: | | |
| GPS COORDINATES: LAT: | | LON: | | | GPS COORDINATES: LAT: | | LON: | | |
| <input checked="" type="checkbox"/> BORING | | <input type="checkbox"/> PIT | | <input type="checkbox"/> PROBE | <input type="checkbox"/> BORING | | <input type="checkbox"/> PIT | | <input type="checkbox"/> PROBE |
| SOIL HORIZON DEPTH (IN) | TEXTURE | COLOR | STRUCTURE | REDOXIMORPHIC FEATURES | SOIL HORIZON DEPTH (IN) | TEXTURE | COLOR | STRUCTURE | REDOXIMORPHIC FEATURES |
| <u>0"-9"</u> | <u>SILT</u> | <u>10 YR 3/2</u> | <u>ABK</u> | <u>NO</u> | | | | | |
| <u>9"-20"</u> | <u>SILT</u> | <u>10 YR 4/4</u> | <u>ABK</u> | <u>NO</u> | | | | | |
| <u>20"-48"</u> | <u>SILT</u> | <u>10 YR 4/3</u> | <u>ABK</u> | <u>NO</u> | | | | | |
| <u>48"-60"</u> | <u>FINE SAND</u> | <u>10 YR 4/3</u> | <u>GR</u> | <u>NO</u> | | | | | |
| <u>60"</u> | <u>OBSTRUCTION</u> | | | | | | | | |

SOIL REVIEW CONCLUSIONS

| | | | |
|---|---------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> SITE SUITABLE <input type="checkbox"/> UNSUITABLE SOIL <input type="checkbox"/> DISTURBED SOIL <input type="checkbox"/> COMPACTED SOIL | DEPTH INFORMATION: | | SOIL TEXTURE: <u>1.67 SILT-SILT LO AM</u> |
| | STANDING WATER: <u>NO</u> | SATURATED SOIL: <u>NO</u> | SOIL SIZING FACTOR: <u>1.67</u> |
| | BEDROCK: <u>NO</u> | MAXIMUM DEPTH OF SYSTEM: <u>36"</u> | LINEAR LOADING RATE: |

SITE REVIEW

| | | |
|---|---|---|
| CHECK ALL THAT APPLY | EASEMENTS ON LOT: | SETBACKS |
| <input type="checkbox"/> WETLAND OR WETLAND VEGETATION <input type="checkbox"/> POND, LAKE, STREAM, RIVER <input type="checkbox"/> FLOODPLAIN <input type="checkbox"/> 10 YEAR FLOOD ELEVATION _____ <input type="checkbox"/> BLUFFLINE <input type="checkbox"/> WELL WELL CASING DEPTH: _____ | <input type="checkbox"/> UTILITY <input type="checkbox"/> DRAINAGE <input type="checkbox"/> OTHER | BLUFFLINE RIVER POND, LAKE, STREAM, WETLAND WELL |

COMMENTS/NOTES:
