
Midwest Sewer Services

P.O. Box 10853 White Bear Lake, MN 55110
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Brian Humpal
MPCA Licensed Advanced Inspector

SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) COMPLIANCE REPORT

Date: August 26, 2020

Time: 10:30 AM

Owner: Michael Wallace

Inspection Address: 9727 Julep Trail N, Forest Lake, MN 55073

REPORT SUMMARY

I have performed an “MPCA Compliance Inspection” on this system and have reviewed the original design/permit records, along with a previous compliance inspection from 2016 which were on file at Washington County. This very old system (installed in 1987) consists of a pre-cast septic tank, a pre-cast lift tank, and a mound. It should be noted that the average life expectancy of a septic system is approximately 30 years.

Although not a compliance criteria, it should be noted that the septic tank manhole cover is buried. I recommend extending this cover to the ground surface to facilitate easier access and proper maintenance. In addition, it should be noted that the septic tank is currently due for maintenance pumping and should be pumped when possible.

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

Midwest Sewer Services 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. Midwest Sewer Services disclaim any use of this compliance inspection beyond determining SSTS compliance pursuant to Minn. Stat. § 115.55 Subd. 5a (2013) and Minn. R. 7080.1500 (2011).

Please contact me should you have any questions.



Christopher Uebe



Brian Humpal



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): 8/26/2020

[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: 9727 Julep Trail N, Forest Lake, MN 55073 Reason for inspection: Property Transfer

Property owner: Michael Wallace Owner's phone:

or
Owner's representative: Representative phone:

Local regulatory authority: Washington County Regulatory authority phone: 651-430-6655

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

Comments or recommendations:

Although not a compliance criteria, it should be noted that the septic tank manhole cover is buried. I recommend extending this cover to the ground surface to facilitate easier access and proper maintenance. In addition, it should be noted that the septic tank is currently due for maintenance pumping and should be pumped when possible

Certification

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

Inspector name: Brian Humpal/Christopher Uebe Certification number: C5342/C9852

Business name: Midwest Sewer Services License number: L2896

Inspector signature: [Signature] 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: 9727 Julep Trail N, Forest Lake, MN 55073

Inspector initials/Date: 8/26/2020 *BAU***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:

Boring over mound indicated no signs of ponding or black/grey soils.

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:

Although not a compliance criteria, it should be noted that the septic tank manhole cover is buried. I recommend extending this cover to the ground surface to facilitate easier access and proper maintenance. In addition, it should be noted that the septic tank is currently due for maintenance pumping and should be pumped when possible

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: 9727 Julep Trail N, Forest Lake, MN 55073

Inspector initials/Date: 8/26/2020 *BACU*

4. Soil Separation – Compliance component #4 of 5

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

Compliance criteria:

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

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

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

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

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

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

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

Verification method(s):

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

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

Comments/Explanation:

Reviewed compliance inspection from 2016)
 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.*

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Subsurface Sewage Treatment System Owner/Property Information

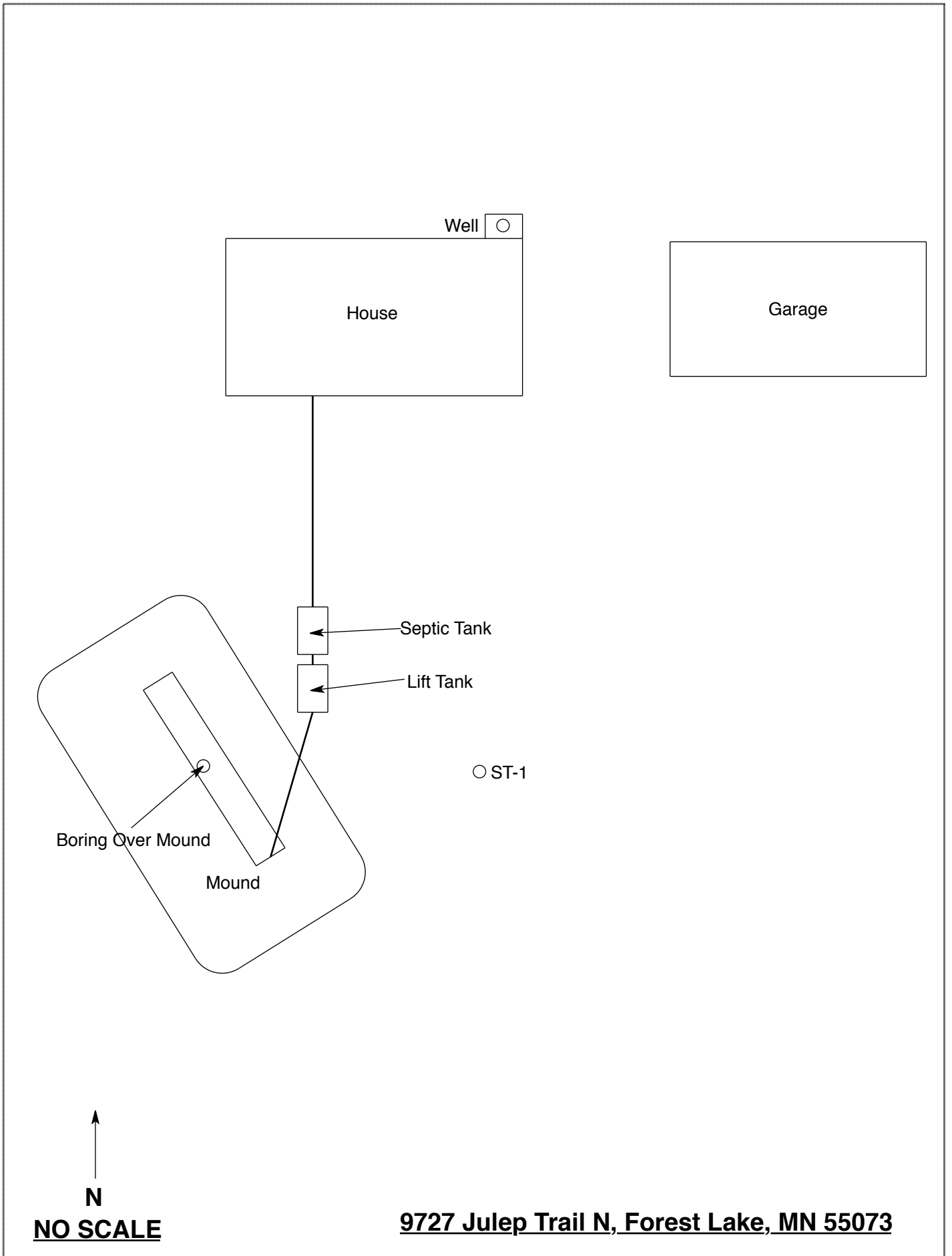
This information will be used for the purpose of conducting an MPCA Compliance Inspection.

Date of Inspection: August 26, 2020		Time: 10:30 AM	
Property Address: 9727 Julep Trail N, Forest Lake, MN		Zip: 55073	
Property Owner: Michael Wallace		Phone:	
Tank(s) <input checked="" type="checkbox"/> Septic 1 <input type="checkbox"/> Aerobic <input checked="" 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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No *If no, proper maintenance must be performed through the maintenance holes. Maintenance hole covers should be made accessible to the ground surface to facilitate access and proper maintenance of the system.			
Year house built: 1973	Year septic installed: 1987	Tank size (gals.): 1200	
How long has seller owned the property?		Number of residents in home?	
Number of bedrooms? 4	Are all floors drained by gravity? Lower Pumped		
Garbage disposal? N	Whirlpool bath? N		
More than one system (laundry, etc.)?			
Does this property have any footing drain tiles connected to the septic system?			
Are any buildings on this property such as garages or out-buildings connected to this system?			
Are there any additional systems on this property serving other buildings?			
Location of septic system on lot? South Side			
Location of water well on lot? North Side (Under Step)		Is the well a deep well? Y	
Have you ever experienced any problems with the system such as: tree roots, sewage back-ups, surfacing of sewage onto the ground, septic tank overflowing, etc.; or have any repairs been made to the system? If yes, explain:			
When was the system last pumped? 2012?		Name of pumper: Due	
How often pumped in previous years? Due		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? Y			
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: _____



NO SCALE

9727 Julep Trail N, Forest Lake, MN 55073

Soil Observations Log

Location of Project:		9727 Julep Trail N, Forest Lake, MN 55073			
Observations Made By:		Midwest Sewer Services		Date:	8/26/2020
Classification System:		USDA			
Soil Observation:		ST-1			
Surface Elevation of Observation		Same contour as upslope mound rock bed		Surface Elevation of Observation	
Depth In Inches	Rock %	<u>Soils Encountered</u>		Depth In Inches	Rock %
0-10 10-13 13-20		10YR 2/2 Loamy Sand 10YR 5/4 Loamy Sand 10YR 3/4 Clay Loam With Depletions			
0-51 51-56		Boring Adjacent To Mound Rock Bed Mound Sand/Fill Original Topsoil 51"-25"(Bottom Of Rock Bed) = 26" Of Sand Below Rock Bed			
13"	Depth To End Of Soil Observation Or Redox			Depth To End Of Soil Observation Or Redox	
+26"	Amount Of Sand Below Rock Bed			Elevation Of Observation Relative To System	
=39"	Of Separation			Depth To Bottom Of Distribution Media Of Separation	
End Of Soil Observation At:		56"		End Of Soil Observation At:	
Redox Present At:		13"		Redox Present At:	
Standing Water Present At:		None		Standing Water Present At:	

Bottom Of Distribution Medium At: 25 Inches

Signature: _____



Log Of Soil Borings

Location of Project:		9727 Julep Trail N, Forest Lake, MN 55073	
Borings Made By:		Inspect Minnesota	Date: 2/26/16
Auger Used:		Hand/Bucket	Classification System: USDA
Boring Number:		1	Boring Number: 2
Surface Elevation of Boring	52" below top of mound on original contour		Surface Elevation of Boring
		Boring through mound adjacent to rock bed	
Depth In Inches	<u>Soils Encountered</u>		Depth In Inches
		<u>Soils Encountered</u>	
0-4	10YR 2/1 Sandy Loam (Fill)		0-9
4-12	10YR 3/3 Medium Sand (Mound Sand/Fill)		9-51
12-24	10YR 2/2 Sandy Loam (Original Topsoil)		51-56
24-32	10YR 5/3 Clay Loam With 7.5YR 5/8 & 10YR 6/1 Redox		Topsoil Mound Sand Original Topsoil
		26" Of Sand Below Mound Rock Bed	
24"	Depth To End Of Boring Or Redox		12"
+52"	Elevation Of Boring Below Top Of Mound		+26"
-25"	Depth To Bottom Of Distribution Media		=38"
=51"	Of Separation		
End Of Boring At:		32"	End Of Boring At:
Redox Present At:		24"	Redox Present At:
Standing Water Present At:		None	Standing Water Present At:

Bottom Of Distribution Medium At: 25 Inches

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LOG OF SOIL BORINGS

BORING NO. 1		BORING NO. 2		BORING NO. 3		BORING NO. 4	
DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION	DEPTH IN FEET	SOIL DESCRIPTION
0	DARK BROWN FINE SILTY LOAM	0	DARK BROWN FINE SILTY LOAM	0	DARK BROWN FINE SILTY LOAM	0	BROWN FINE SANDY LOAM
5"	LT. BROWN FINE SILTY LOAM	5"	LT. BROWN FINE SILTY CLAY LOAM (STIFF) (COMPRESSED)	3"	LT. BROWN FINE SILTY CLAY LOAM	5"	DARK BROWN FINE SILTY LOAM
10"	LT. YELLOW BROWN FINE SILTY CLAY LOAM			11"	LT. YELLOW BROWN FINE SILTY CLAY LOAM (VERY- STIFF)	12"	GREY FINE SILTY SAND
36"	LT. YELLOW BROWN FINE SILTY CLAY LOAM (STIFF) (MOIST)	41"	LT. YELLOW BROWN FINE SILTY CLAY LOAM (MOIST) (PLASTIC) (STIFF)	23"	LT. YELLOW BROWN FINE SILTY CLAY (EVEN- SPECIFIC) (STIFF) (MOIST)	33"	YELLOW- BROWN FINE SILTY CLAY LOAM (MOIST) (MOTTLED) (STIFF)
46"	LT. YELLOW BROWN FINE SILTY CLAY (VERY STIFF) (MOTTLED)	52"	LT. YELLOW BROWN FINE SILTY CLAY (STIFF) (MOTTLED) (MOIST) (PLASTIC)	37"	YELLOW- BROWN FINE SANDY CLAY (MOTTLED) (PLASTIC) (MOIST)	49"	YELLOW- BROWN FINE SANDY CLAY (SOFT) (PLASTIC) (HEAVY MOTTLED) (MOIST)
49"	LT. YELLOW BROWN FINE SILTY LOAM (MOIST) (PLASTIC) (HEAVY MOTTLED)						
66"		6:3"		6:0"		6:5"	
	BNO B-1		BNO B-2		BNO B-3		BNO B-4