



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

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

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

For local tracking purposes:

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

System Status

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

Compliant – Certificate of Compliance

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

Noncompliant – Notice of Noncompliance

(See Upgrade Requirements on page 3.)

Reason(s) for noncompliance (check all applicable)

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

Property Information

Parcel ID# or Sec/Twp/Range: 1703021120011

Property address: 9773 HERON AVE N, CITY OF GRANT Reason for inspection: property Transfer

Property owner: VERBRUGGE BRANDON & ANN-MARIE Owner's phone: _____

or
 Owner's representative: _____ Representative phone: _____

Local regulatory authority: _____ Regulatory authority phone: _____

Brief system description: _____

Comments or recommendations:

Certification

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

Inspector name: Paul Brandt Certification number: 5182

Business name: Soil Investigation & Design, Inc. License number: 3263

Inspector signature: _____ Phone number: 6512603783

Necessary or Locally Required Attachments

- Soil boring logs
- System/As-built drawing
- Forms per local ordinance
- Other information (list): _____

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

Compliance criteria:

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

Any “yes” answer above indicates the system is an imminent threat to public health and safety.

Comments/Explanation:

Verification method(s):

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

2. Tank Integrity – Compliance component #2 of 5

Compliance criteria:

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

Any “yes” answer above indicates the system is failing to protect groundwater.

Comments/Explanation:

The tank was tested using a recording data logger, water was turned off in the house and lines were allowed to drain. The test was then completed. The recording data logger showed no change in the water level in the tank. The results indicate that the tank is water tight.

Verification method(s):

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

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

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

Explain:

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

Explain:

4. Soil Separation – Compliance component #4 of 5

Date of installation: 6/6/2005 Unknown
(mm/dd/yyyy)

Shoreland/Wellhead protection/Food beverage lodging? Yes No

Compliance criteria:

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

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

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

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

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

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

Verification method(s):

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

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

Comments/Explanation:

Surface Drainfield 999

Indicate depths or elevations

A. Bottom of distribution media	997
B. Periodically saturated soil/bedrock	991.5
C. System separation	>3 feet
D. Required compliance separation*	3 feet

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

Any “no” answer above indicates the system is failing to protect groundwater.

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

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

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

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

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

Compliance criteria

- a. Operating Permit number: _____ 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.*



Client/ Address:	9773 Heron Ave N in Grant MN	Legal Description/ GPS:	1.70302E+12
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Soil parent material(s): (Check all that apply) Outwash Lacustrine Loess Till Alluvium Bedrock Organic Matter

Landscape Position: (check one) Summit Shoulder Back/Side Slope Foot Slope Toe Slope Slope shape: Concave Concave

Vegetation: Grass Soil survey map units: None Slope %: 5.0 Elevation: 997


Weather Conditions/Time of Day: 85 degree sunny Date: 07/24/19

Observation #/Location: Soil Boring 1 Observation Type: Probe

Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I----- Structure-----I		
							Shape	Grade	Consistence
0 to 16	Fine Sand	<35%	10YR 4/4				Blocky	Weak	Friable
16 to 26	Fine Sand	<35%	10YR 5/6				Blocky	Weak	Friable
26 to 50	Fine Sand	<35%	10YR 6/4				Blocky	Weak	Friable
50 to 65	Fine Sand	<35%	7.5YR 4/4				Blocky	Weak	Friable

Comments

I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.

Paul Brandt _____ (Designer/Inspector)	 _____ (Signature)	5182 _____ (License #)	7/24/2019 _____ (Date)
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Additional Soil Observation Logs

Project ID:



Client/ Address:	9773 Heron Ave N in Grant MN	Legal Description/ GPS:	1.70302E+12
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Soil parent material(s): (Check all that apply)
 Outwash
 Lacustrine
 Loess
 Till
 Alluvium
 Bedrock
 Organic Matter

Landscape Position: (check one)
 Summit
 Shoulder
 Back/Side Slope
 Foot Slope
 Toe Slope
 Slope shape: Concave Linear

Vegetation:	grass	Soil survey map units:	None	Slope %:	0.0	Elevation:	997
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Weather Conditions/Time of Day:	85 degree sunny	Date:	07/24/19
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Observation #/Location:	SB 2	Observation Type:	Probe
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Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I----- Structure-----I		
							Shape	Grade	Consistence
0 to 14	Fine Sand	<35%	10YR 4/4				Blocky	Weak	Friable
14to 25	Fine Sand	<35%	10YR 5/6				Blocky	Weak	Friable
25to 53	Fine Sand	<35%	10YR 6/4				Blocky	Weak	Friable
53 to 65	Fine Sand	<35%	7.5YR 4/4				Blocky	Weak	Friable

Comments

#/Location/Elevation:		Observation Type:	
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Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	I----- Structure-----I		
							Shape	Grade	Consistence

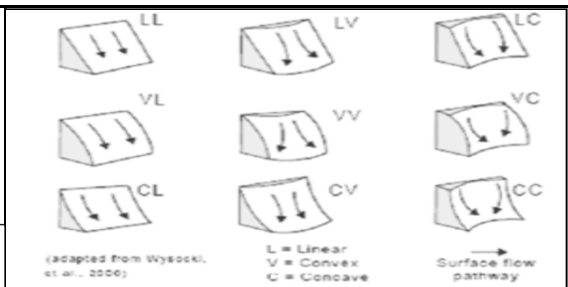
Comments

Textures: c-clay sic-silty clay sc-sandy clay cl-clay loam sicl-silty clay loam scl-sandy clay loam si-silt sil-silt loam l-loam sl-sandy loam* ls-loamy sand* s-sand*	Subsoil Indicator(s) of Saturation: S1. Distinct gray or red redox features S2. Depleted matrix (value ≥ 4 and chroma ≤ 2) S3. 5Y chroma ≤ 3 S4. 7.5 YR or redder faint redox concentrations or redox depletion		Consistence: <u>Loose-</u> Intact specimen not available <u>Friable-</u> Slight force between fingers <u>Firm-</u> Moderate force between fingers <u>Extremely firm-</u> Moderate force between hands or slight foot pressure <u>Rigid-</u> Foot pressure
	*Sand Modifiers co-coarse m-medium f-fine vf-very fine	If yes to one of the above indicators then: Topsoil Indicator(s) of Saturation: T1. Wetland Vegetation T2. Depressional Landscape T3. Organic texture or organic modifiers T4. N 2.5/ 0 color T5. Redox features in topsoil T6. Hydraulic indicators	

Soil Structure

Grade:

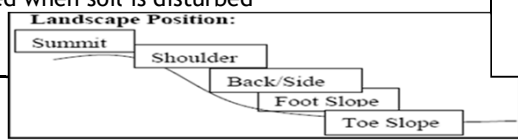
<u>Massive-</u>	No observable aggregates, or no orderly arrangement of natural lines of weakness
<u>Weak-</u>	Poorly formed, indistinct peds, barely observable in place
<u>Moderate-</u>	Well formed, distinct peds, moderately durable and evident, but not distinct in undisturbed
<u>Strong-</u>	Durable peds that are quite evident in un-displaced soil, adhere weakly to one another, withstand displacement, and become separated when soil is disturbed
<u>Loose-</u>	No peds, sandy soil



Soil Structure

Shape:

<u>Granular-</u>	The peds are approximately spherical or polyhedral and are commonly found in topsoil. These are the small, rounded peds that hang onto roots
<u>Platy-</u>	The peds are flat and plate like. They are oriented horizontally and are usually overlapping. Platy structure is commonly found in forested areas
<u>Blocky-</u>	The peds are block-like or polyhedral, and are bounded by flat or slightly rounded surface that are casting of the faces of surrounding peds.
<u>Prismatic-</u>	Flat or slightly rounded vertical faces bound the individual peds. Peds are distinctly longer vertically, and faces are typically cast or molds of
<u>Single Grain-</u>	The structure found in a sandy soil. The individual particles are not held together.



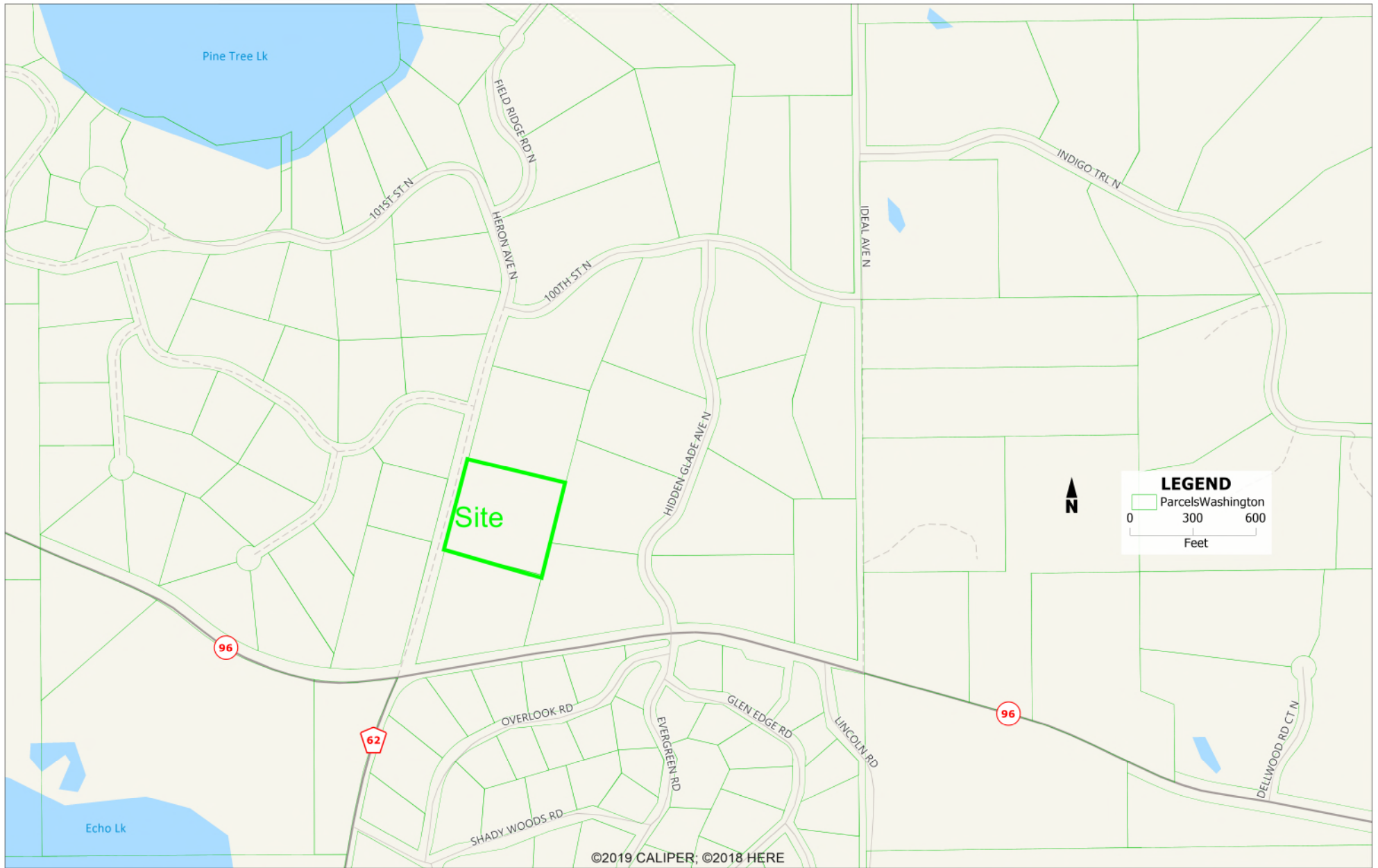


Figure 1: Site Location Map

Soil Investigation & Design, Inc,
 2809 78th Ave. N
 Brooklyn Park, Mn 55444
 pbrandt@soilinvestigations.us
 651-260-3783

Client: Mr. Mrs. VERBRUGGE
Address: 9773 Heron Ave. N, City of Grant



Figure 2: Site Contour & Soils Map

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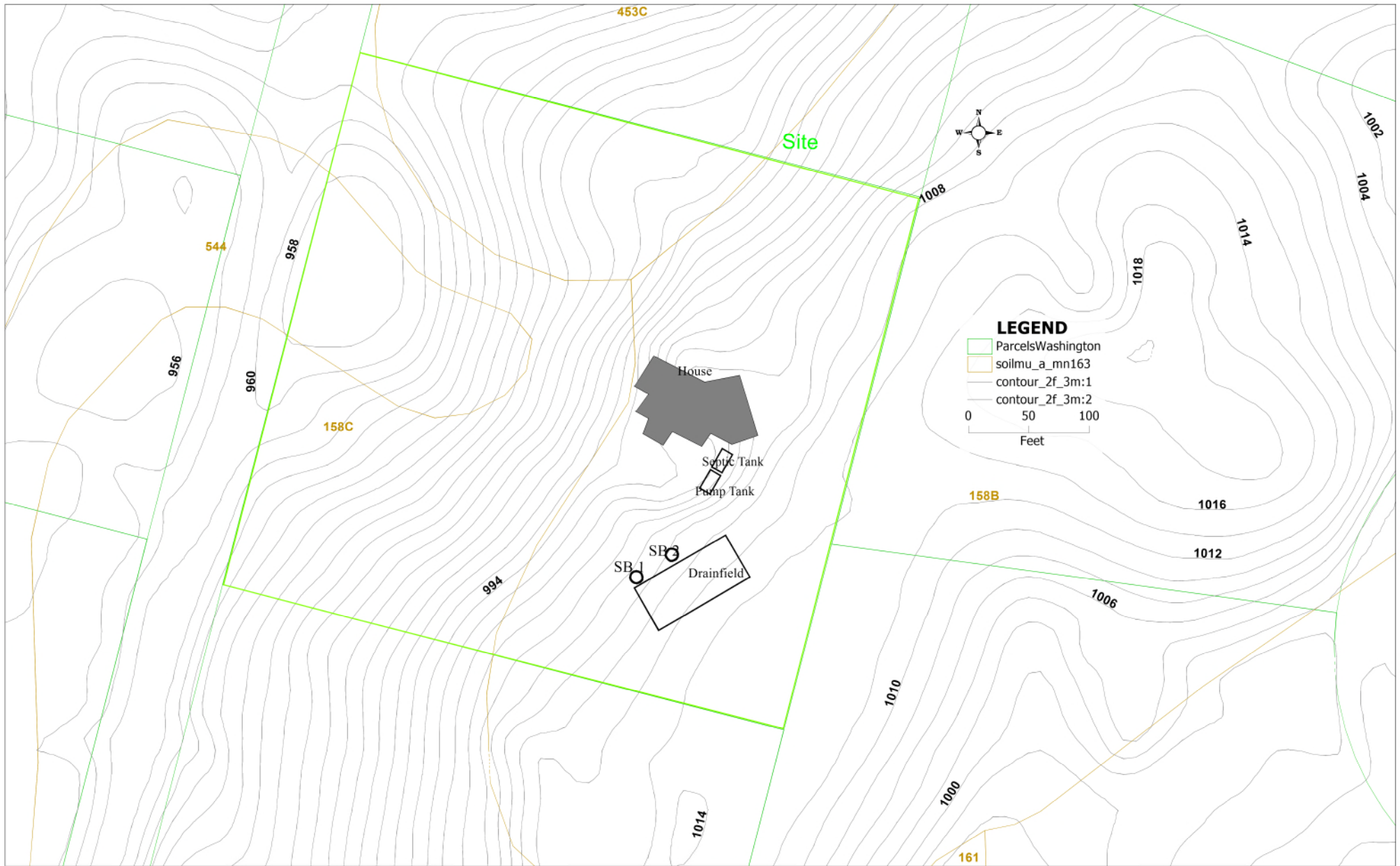


Figure 2: Site Detail Map

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