

KANE COUNTY SOIL TEST REPORT for ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) SUITABILITY

WILLIAM R. KREZNOR & ASSOCIATES, INC.
SOIL and ENVIRONMENTAL CONSULTANTS

904 Powers Road Woodstock, Illinois 60098 Telephone: 815-338-2362 bmueller@wrksoiltesting.com

NAME: Schmitt Engineering c/o Thomas Mroz, PE JOB NO.: SSI-KA26010
ADDRESS: 215 W. Calhoun Street Woodstock, IL 60098
TELEPHONE: 815-337-7810 TEST DATE: 06-23-2026

PROPERTY LOCATION: 8.53-acre (approx.) parcel, part of SE ¼ of SW ¼ Sec. 9, T. 42N., R. 8E.; No. 35W543 Miller Road

PIN: 03-09-300-023

☐ NEW CONSTRUCTION ☐ REPAIR / REPLACEMENT ☒ PROPERTY ALTERATION

SAMPLE NO.: 1 SLOPE (%): 3-5 PARENT MATERIAL: 8" silty sediments over loam glacial till

DESCRIPTION, ESTIMATED PERMEABILITY (in./hr.), ESTIMATED PERMEABILITY RANGE¹, ESTIMATED SEWAGE LOADING RATE¹, SOIL GROUP¹, and DESIGN GROUP¹:

A	0-8"	Dark brown (10YR 3/3) silt loam; moderate very fine angular blocky structure parting to moderate fine granular; friable; upper mod. (1.0-2.0); very high moderate perm.; 0.75; 5D; V.
2BE	8-12"	Brown (10YR 4/3) loam; moderate very fine angular blocky structure; friable; few dark brown (10YR 3/3) organic coatings; upper mod. (1.0-2.0); moderate perm.; 0.62; 5H; VII.
2Bt	12-32"	Dark yellowish brown (10YR 4/4) clay loam; few yellowish brown (10YR 5/6) redox concentrations; moderate fine and medium angular blocky structure; friable; common brown (10YR 4/3) clay coatings; upper mod. (1.0-2.0); low moderate perm.; 0.52; 6H; VIII.
2BCt	32-42"	Dark yellowish brown (10YR 4/4) and yellowish brown (10YR 5/4) loam; common yellowish brown (10YR 5/6) redox concentrations; weak medium subangular blocky structure; friable; few brown (10YR 4/3) clay coatings; lower mod. (0.6-1.0); high moderately slow perm.; 0.45; 5F; IX.
2C	42-60"	Yellowish brown (10YR 5/4) loam; common yellowish brown (10YR 5/8) redox concentrations; common grayish brown (10YR 5/2) redox depletions; massive; friable; lower mod. (0.6-1.0); slow perm.; 0.27; 5N; XI.

SOIL CLASSIFICATION: Mollic Hapludalfs; fine-loamy (Caprell taxadjunct 624B)

ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER TABLE (in): 42

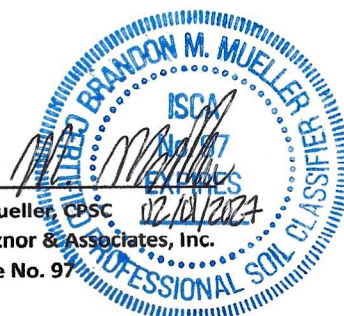
DEPTH TO OBSERVED GROUNDWATER (in): None to 60

SAMPLE METHOD: Soil core; soil described by B. Mueller

REMARKS: There are two test areas on the subject property. Sample Nos 1 through 3 characterize an area in the north-central part of the property. This test area is on the sideslope of a broad rise. Sample No. 1 is in the higher part of the north-central test area.

SOIL CLASSIFIER:


Brandon M. Mueller, CPSC
William R. Kreznor & Associates, Inc.
ISCA Certificate No. 97



¹ Exhibits A and B, Illustration M, Sec. 905, Appendix A of the 2013 Private Sewage Disposal Licensing Code, Illinois Department of Public Health, October 2013.

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☐ NEW CONSTRUCTION☐ REPAIR / REPLACEMENT☒ PROPERTY ALTERATION

SAMPLE NO.: 2 SLOPE (%): 5-6 PARENT MATERIAL: 9" silty sediments over loam glacial till

DESCRIPTION, ESTIMATED PERMEABILITY (in./hr.), ESTIMATED PERMEABILITY RANGE¹, ESTIMATED SEWAGE LOADING RATE¹,
SOIL GROUP¹, and DESIGN GROUP¹:

A	0-9"	Very dark grayish brown (10YR 3/2) silt loam; moderate very fine angular blocky structure parting to moderate fine granular; friable; upper mod. (1.0-2.0); very high moderate perm.; 0.75; 5D; V.
2Bt	9-31"	Dark yellowish brown (10YR 4/4) clay loam; few yellowish brown (10YR 5/6) redox concentrations; moderate fine and medium angular blocky structure; friable; few very dark grayish brown (10YR 3/2) organic coatings; common brown (10YR 4/3) clay coatings; upper mod. (1.0-2.0); low moderate perm.; 0.52; 6H; VIII.
2BCt	31-40"	Yellowish brown (10YR 5/4) loam; common yellowish brown (10YR 5/6) redox concentrations; weak medium subangular blocky structure; friable; few brown (10YR 4/3) clay coatings; lower mod. (0.6-1.0); high moderately slow perm.; 0.45; 5F; IX.
2C	40-60"	Yellowish brown (10YR 5/4) and brown (10YR 5/3) loam; common yellowish brown (10YR 5/6 and 5/8) redox concentrations; common grayish brown (10YR 5/2) redox depletions; massive; friable; lower mod. (0.6-1.0); slow perm.; 0.27; 5N; XI.

SOIL CLASSIFICATION: Mollic Hapludalfs; fine-loamy (Caprell taxadjunct 624C)

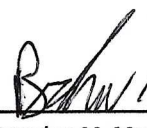
ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER TABLE (in): 40

DEPTH TO OBSERVED GROUNDWATER (in): None to 60

SAMPLE METHOD: Soil core; soil described by B. Mueller

REMARKS: Sample No. 2 is intermediate in elevation among the sample sites in the north-central test area.

SOIL CLASSIFIER:


Brandon M. Mueller, CPSC
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ISCA Certificate No. 97



¹ Exhibits A and B, Illustration M, Sec. 905, Appendix A of the 2013 Private Sewage Disposal Licensing Code, Illinois Department of Public Health, October 2013.

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☐ NEW CONSTRUCTION ☐ REPAIR / REPLACEMENT ☒ PROPERTY ALTERATION

SAMPLE NO.: 3 SLOPE (%): 5-6 PARENT MATERIAL: 14" silty sediments over loam glacial till

DESCRIPTION, ESTIMATED PERMEABILITY (in./hr.), ESTIMATED PERMEABILITY RANGE¹, ESTIMATED SEWAGE LOADING RATE¹,
SOIL GROUP¹, and DESIGN GROUP¹:

A	0-14"	Very dark grayish brown (10YR 3/2) silt loam; moderate very fine angular blocky structure parting to moderate fine granular; friable; upper mod. (1.0-2.0); very high moderate perm.; 0.75; 5D; V.
2Bt	14-34"	Dark yellowish brown (10YR 4/4) clay loam; few yellowish brown (10YR 5/6) redox concentrations; moderate fine and medium angular blocky structure; friable; few very dark grayish brown (10YR 3/2) organic coatings; common brown (10YR 4/3) clay coatings; upper mod. (1.0-2.0); low moderate perm.; 0.52; 6H; VIII.
2BCt	34-44"	Dark yellowish brown (10YR 4/4) and yellowish brown (10YR 5/4) loam; common yellowish brown (10YR 5/6) redox concentrations; weak medium subangular blocky structure; friable; few brown (10YR 4/3) clay coatings; lower mod. (0.6-1.0); high moderately slow perm.; 0.45; 5F; IX.
2C	44-60"	Yellowish brown (10YR 5/4) and brown (10YR 5/3) loam; common yellowish brown (10YR 5/6 and 5/8) redox concentrations; common grayish brown (10YR 5/2) redox depletions; massive; friable; lower mod. (0.6-1.0); slow perm.; 0.27; 5N; XI.

SOIL CLASSIFICATION: Typic Argiudolls; fine-loamy (Parmod 636C)

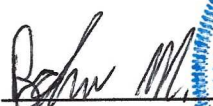
ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER TABLE (in): 44

DEPTH TO OBSERVED GROUNDWATER (in): None to 60

SAMPLE METHOD: Soil core; soil described by B. Mueller

REMARKS: Sample No. 3 is in the lower part of the north-central test area.

SOIL CLASSIFIER:


Brandon M. Mueller, CPSC
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¹ Exhibits A and B, Illustration M, Sec. 905, Appendix A of the 2013 Private Sewage Disposal Licensing Code, Illinois Department of Public Health, October 2013.

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SAMPLE NO.: 4 SLOPE (%): 2-3 PARENT MATERIAL: 8" silty sediments over loam glacial till

DESCRIPTION, ESTIMATED PERMEABILITY (in./hr.), ESTIMATED PERMEABILITY RANGE¹, ESTIMATED SEWAGE LOADING RATE¹,
SOIL GROUP¹, and DESIGN GROUP¹:

A	0-8"	Very dark grayish brown (10YR 3/2) silt loam; moderate very fine angular blocky structure parting to moderate fine granular; friable; upper mod. (1.0-2.0); very high moderate perm.; 0.75; 5D; V.
2BE	8-14"	Brown (10YR 4/3 and 5/3) loam; moderate very fine angular blocky structure; friable; few very dark grayish brown (10YR 3/2) organic coatings; upper mod. (1.0-2.0); moderate perm.; 0.62; 5H; VII.
2Bt1	14-34"	Dark yellowish brown (10YR 4/4) clay loam; few yellowish brown (10YR 5/6) redox concentrations; moderate fine and medium angular blocky structure; friable; common brown (10YR 4/3) clay coatings; upper mod. (1.0-2.0); low moderate perm.; 0.52; 6H; VIII.
2Bt2	34-47"	Brown (7.5YR 4/4) and strong brown (7.5YR 4/6) clay loam; common strong brown (7.5YR 5/6) redox concentrations; weak medium prismatic structure parting to moderate medium angular blocky; friable; common brown (7.5YR 4/3) clay coatings; upper mod. (1.0-2.0); low moderate perm.; 0.52; 6H; VIII.
2BCt	47-55"	Yellowish brown (10YR 5/4) loam; common yellowish brown (10YR 5/6) redox concentrations; weak medium subangular blocky structure; friable; few brown (10YR 4/3) clay coatings; lower mod. (0.6-1.0); high moderately slow perm.; 0.45; 5F; IX.
2C	55-60"	Yellowish brown (10YR 5/4) loam; common yellowish brown (10YR 5/6) redox concentrations; common grayish brown (10YR 5/2) redox depletions; massive; friable; lower mod. (0.6-1.0); slow perm.; 0.27; 5N; XI.

SOIL CLASSIFICATION: Mollic Hapludalfs; fine-loamy (Caprell taxadjunct 624B)

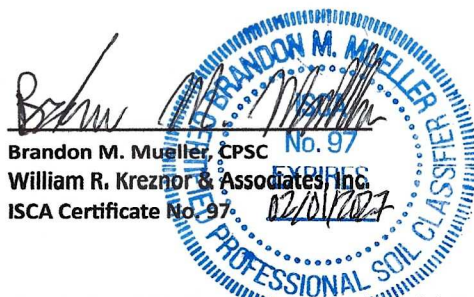
ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER TABLE (in): 55

DEPTH TO OBSERVED GROUNDWATER (in): None to 60

SAMPLE METHOD: Soil core; soil described by B. Mueller

REMARKS: Sample Nos 4 through 6 characterize an area in the northeastern part of the property. This test area is on the sideslope of a broad rise. Sample No. 4 is in the higher part of the northeastern test area.

SOIL CLASSIFIER:



¹ Exhibits A and B, Illustration M, Sec. 905, Appendix A of the 2013 Private Sewage Disposal Licensing Code, Illinois Department of Public Health, October 2013.

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SAMPLE NO.: 5 SLOPE (%): 6-7 PARENT MATERIAL: 9" silty sediments over loam glacial till

DESCRIPTION, ESTIMATED PERMEABILITY (in./hr.), ESTIMATED PERMEABILITY RANGE¹, ESTIMATED SEWAGE LOADING RATE¹,
SOIL GROUP¹, and DESIGN GROUP¹:

A	0-9"	Dark brown (10YR 3/3) silt loam; moderate very fine angular blocky structure parting to moderate fine granular; friable; upper mod. (1.0-2.0); very high moderate perm.; 0.75; 5D; V.
2BE	9-16"	Brown (10YR 4/3 and 5/3) loam; moderate very fine angular blocky structure; friable; few dark brown (10YR 3/3) organic coatings; upper mod. (1.0-2.0); moderate perm.; 0.62; 5H; VII.
2Bt	16-39"	Dark yellowish brown (10YR 4/4) clay loam; few yellowish brown (10YR 5/6) redox concentrations; moderate fine and medium angular blocky structure; friable; common brown (10YR 4/3) clay coatings; upper mod. (1.0-2.0); low moderate perm.; 0.52; 6H; VIII.
2BCt	39-48"	Yellowish brown (10YR 5/4) loam; common yellowish brown (10YR 5/8) redox concentrations; weak medium subangular blocky structure; friable; few brown (10YR 4/3) clay coatings; lower mod. (0.6-1.0); high moderately slow perm.; 0.45; 5F; IX.
2C	48-60"	Yellowish brown (10YR 5/4) and brown (10YR 5/3) loam; common yellowish brown (10YR 5/8) redox concentrations; common grayish brown (10YR 5/2) redox depletions; massive; friable; lower mod. (0.6-1.0); slow perm.; 0.27; 5N; XI.

SOIL CLASSIFICATION: Mollic Hapludalfs; fine-loamy (Caprell taxadjunct 624C)

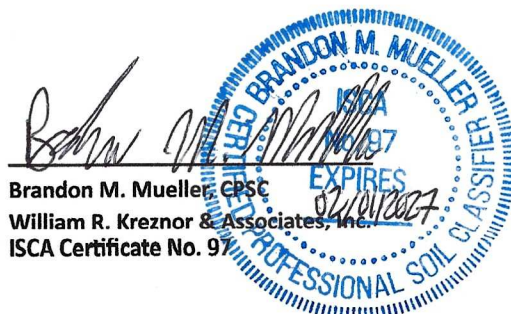
ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER TABLE (in): 48

DEPTH TO OBSERVED GROUNDWATER (in): None to 60

SAMPLE METHOD: Soil core; soil described by B. Mueller

REMARKS: Sample No. 5 is intermediate in elevation among the sample sites in the northeastern test area.

SOIL CLASSIFIER:



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SAMPLE NO.: 6 SLOPE (%): 8-10 PARENT MATERIAL: 8" silty sediments over loam glacial till

DESCRIPTION, ESTIMATED PERMEABILITY (in./hr.), ESTIMATED PERMEABILITY RANGE¹, ESTIMATED SEWAGE LOADING RATE¹,
SOIL GROUP¹, and DESIGN GROUP¹:

A	0-8"	Very dark grayish brown (10YR 3/2) silt loam; moderate very fine angular blocky structure parting to moderate fine granular; friable; upper mod. (1.0-2.0); very high moderate perm.; 0.75; 5D; V.
2BE	8-15"	Brown (10YR 4/3) loam; moderate very fine angular blocky structure; friable; few dark brown (10YR 3/3) organic coatings; upper mod. (1.0-2.0); moderate perm.; 0.62; 5H; VII.
2Bt	15-28"	Brown (7.5YR 4/4) clay loam; few strong brown (7.5YR 5/6) redox concentrations; moderate fine and medium angular blocky structure; friable; common brown (7.5YR 4/3) clay coatings; upper mod. (1.0-2.0); low moderate perm.; 0.52; 6H; VIII.
2BCt	28-40"	Yellowish brown (10YR 5/4) and brown (10YR 5/3) loam; common yellowish brown (10YR 5/8) redox concentrations; weak medium subangular blocky structure; friable; few brown (10YR 4/3) clay coatings; lower mod. (0.6-1.0); high moderately slow perm.; 0.45; 5F; IX.
2C	40-60"	Yellowish brown (10YR 5/4) and brown (10YR 5/3) loam; common yellowish brown (10YR 5/8) redox concentrations; common grayish brown (10YR 5/2) redox depletions; massive; friable; lower mod. (0.6-1.0); slow perm.; 0.27; 5N; XI.

SOIL CLASSIFICATION: Mollic Hapludalfs; fine-loamy (Caprell taxadjunct 624C)

ESTIMATED DEPTH TO SEASONAL HIGH GROUNDWATER TABLE (in): 40

DEPTH TO OBSERVED GROUNDWATER (in): None to 60

SAMPLE METHOD: Soil core; soil described by B. Mueller

REMARKS: Sample No. 6 is in the lower part of the northeastern test area.

SOIL CLASSIFIER:


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ISCA Certificate No. 97



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