

Using Soil Reports for Assessing Suitability for On Site Sewage Management Systems

Scott A. Uhlich
Program Director
sxuhlich@dhr.state.ga.us

Issues

- Sidewall Vs Trench bottom absorption rates
 - Recommended Trench Depth - Ranges
 - Absorption rates for Horizons
- Seasonal Groundwater Table
 - Defining seasonal groundwater- first grays?
 - Specific depth and location
- Soil Structure
- Treatment

EXAMPLE LEVEL 3
SOIL REPORT

SOIL CRISIS CENTER, INC.
123 Auger Alley, Backhoe, Georgia xxxxx-xxxx
Phone: xxx-xxx-xxxx Fax: xxx-xxx-xxxx

COUNTY:	Cobb	DATE	2/28/2000
OWNER:	Tom Smith		
SITE LOCATION ADDRESS:	mail box 212, Frost Lane, Coolville, GA. 123456		
PHONE NUMBERS:	632-123-4567	LOT NUMBER (S):	6
SUBDIVISION	Spring View		
SCALE:	1 inch = 60 Feet		
INTENSITY LEVEL OF INVESTIGATION:	Level 3, DHR standards		

FORM 1.94

SOIL PROPERTIES

SOIL SERIES SEE SUITABILITY CODES	SLOPE % ranges of the soil type	DEPTH TO BEDROCK	DEPTH TO SEASONAL HIGH H2O TABLE (inches)	ABSORPTION RATE AT RECOMMENDED TRENCH DEPTH MIN/ IN.	RECOMMENDED TRENCH DEPTH (inches)	SUITABILITY CODE (listed below)
Altavista	0-5%	>72"	23"	See Codes	See Codes	TK1
Fill (udorthents)	—			See Codes	See Codes	F
Wedowee	5-15%	>72"	>72"	35	38"	A

SUITABILITY CODE DESCRIPTIONS AND GENERAL NOTES

Suitability Code A = This soil should have the ability to function as a suitable absorption field with proper design, installation and maintenance.

Suitability Code TK1 = This soil has a seasonal high water table and is also subject to flooding. There is a high probability of failure if utilized for an absorption field.

Suitability Code F = Normally considered unsuitable for use for absorption fields. High probability of failure if utilized for absorption fields.

Boring locations illustrated on the soil map were located from the existing corner pins using a hip chain and a Compass.

EXAMPLE LEVEL 3
SOIL REPORT (CONT.)

SOIL CRISIS CENTER, INC.
123 Auger Alley, Backhoe, Georgia xxxxx-xxxx
Phone: xxx-xxx-xxxx Fax: xxx-xxx-xxxx

LEVEL 3 SOIL SURVEY FOR: Tom Smith

SITE LOCATION INFORMATION: Frost Lane off Hwy 117, look for mailbox 212, power pole is flagged in pink at front of lot.

SUBDIVISION Spring View
DATE OF SOIL STUDY 2/28/2000 LOT NUMBER 6

MAP LEGEND

SCALE: 1 INCH = 60 FEET

DRAINAGE, RUNS ALL YEAR (ONE DOT) NA

DRAINAGE, RUNS PART OF YEAR (3 DOTS) NA

GULLY, AND OR RAINY WEATHER DRAINAGE WAY (UNSUITABLE FOR SEPTIC SYSTEMS) NA

SLOPE (DIRECTION FALLING) →

WELL NA

SPRING NA

TEST PITS NA

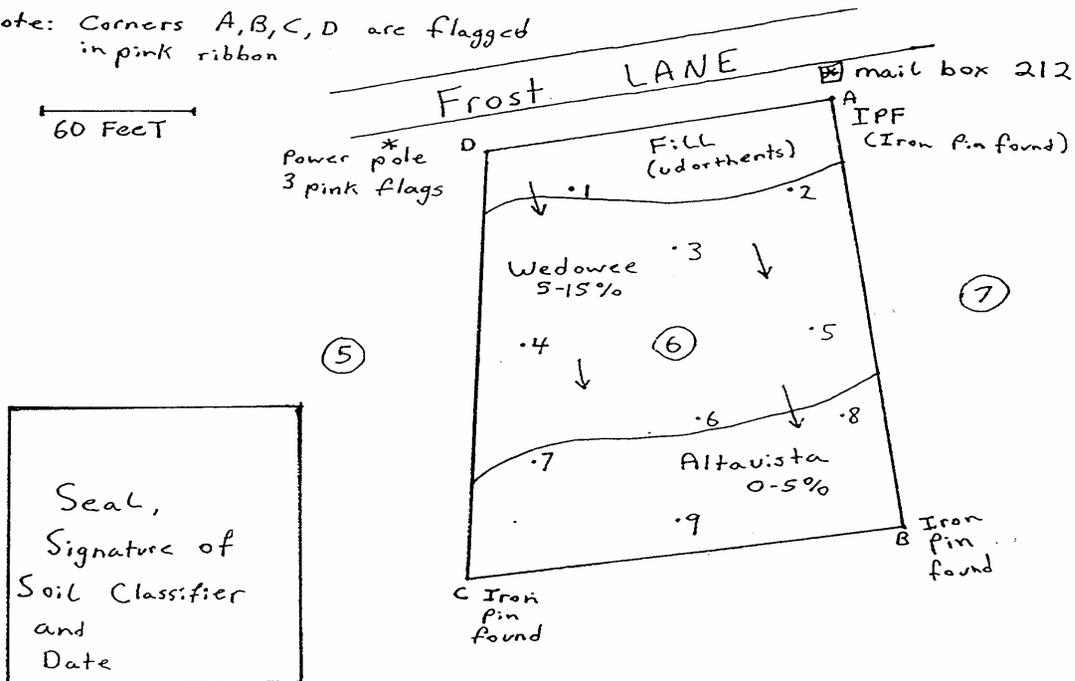
ROCK OUTCROP NA

FAILED ATTEMPT AT BORING SITE NA

SUCCESSFUL BORING (COMPLETED TO 6 FT.) ·#


 NORTH

note: Corners A, B, C, D are flagged in pink ribbon

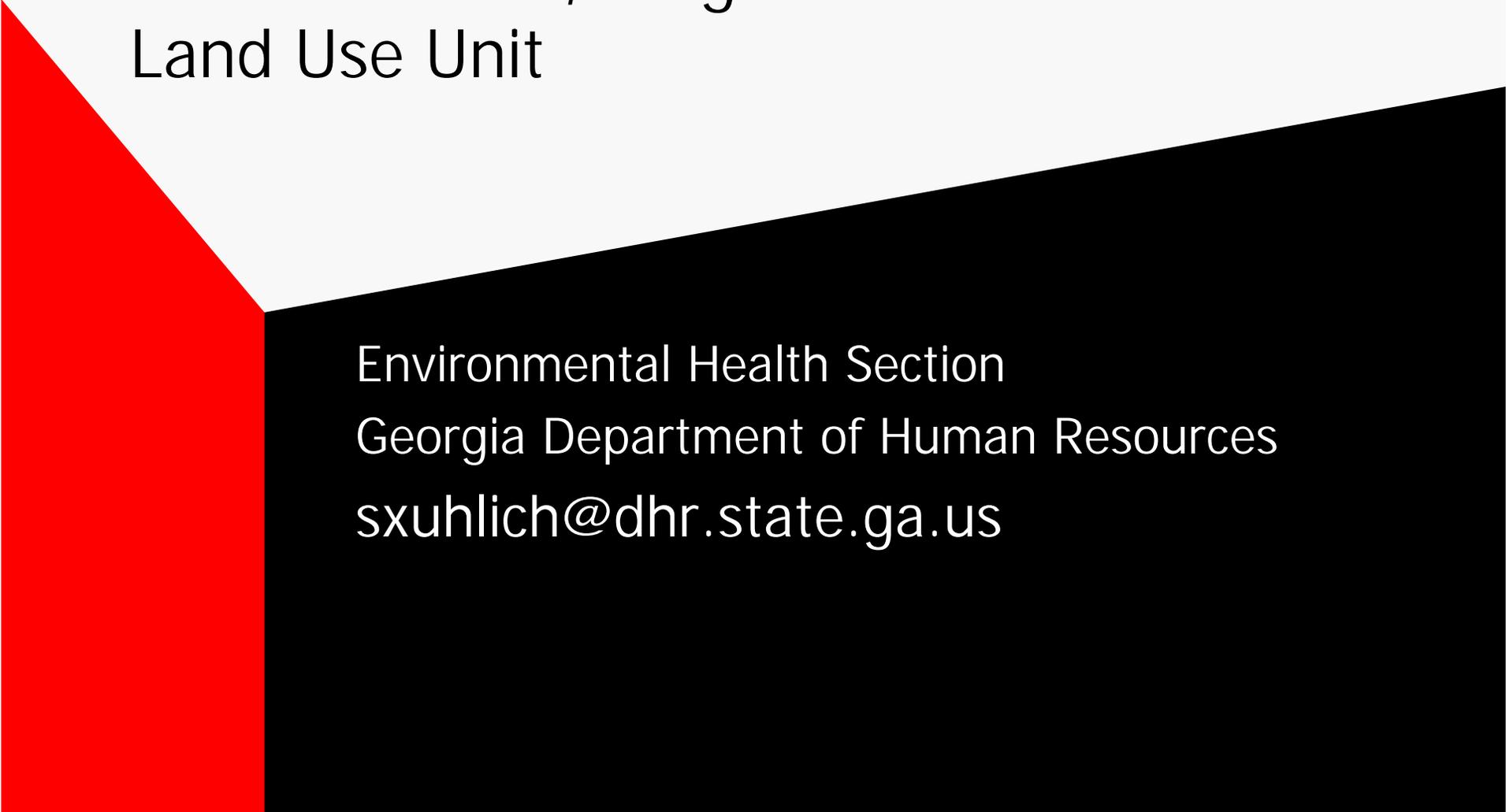


Subdivisions

- Level 3 Investigation
- Pre-Development Review Recommended
- Final Plat Soil Survey
 - Revisit marginal lots
- Mapping Scale - Marginal lots

Site Modifications

- Fill Material
 - Uniformity of fill material
 - Compaction of fill material
 - Permeability of fill material
 - Original soil surface preparation
 - Certification of fill site
- Subsurface Drainage
 - Location and depth
- Grading



Scott A. Uhlich, Program Director
Land Use Unit

Environmental Health Section
Georgia Department of Human Resources
sxuhlich@dhr.state.ga.us