



• Geotechnical Engineering • Field & Lab Testing • Scientific & Environmental Consulting

07-0044 D

January 25, 2007

Ms. Bonnie Kelley  
645 North Street  
Ellsworth, ME 04605

Subject: Preliminary Soils Investigation  
Kelley Lane Estates  
Trenton, Maine

Dear Ms. Kelley:

As you requested, on January 11, 2007, we conducted preliminary soil investigations for subsurface wastewater disposal on Lots 7, 8, 9, and an adjacent 11±-acre lot identified as "other land of Richard Kelley" as shown on a final subdivision plan prepared by PLS #1259.

Our investigation revealed soil conditions that meet the minimum drainage requirements for subsurface wastewater disposal as stipulated in the Maine Subsurface Wastewater Disposal Rules. Specifically, soils observed are classified as 8D with a seasonal groundwater table and restrictive layer at about 12 to 13 inches in depth. The suitable areas at TP7, TP8, TP9 and TP10, as staked out on the ground, are each adequate to serve a three bedroom house utilizing plastic chambers.

As with any subsurface wastewater disposal system, proper setback of proposed disposal systems from wells, buildings, lot lines, and bodies of water is a necessary consideration in obtaining system approval. The approximate locations of suitable areas shown on the attached plan appear to meet all minimum setback requirements based on existing site conditions and apparent lot lines. We recommend that the test pit locations be verified by your surveyor.

This report is not an Application for Subsurface Wastewater Disposal Permit. Such an application must be completed by a Licensed Site Evaluator and approved by the Local



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Plumbing Inspector of the Municipality (and by the Division of Health Engineering, Augusta, when necessary) to obtain a local plumbing permit.

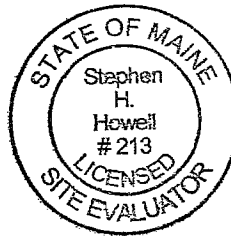
If you have any further questions, please feel free to call.

Very truly yours,

**S. W. COLE ENGINEERING, INC.**

A handwritten signature in dark ink, appearing to read 'Stephen H. Howell', written over a set of three horizontal, slightly wavy lines.

Stephen H. Howell, L.S.E. #213



SHH:slh

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering  
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

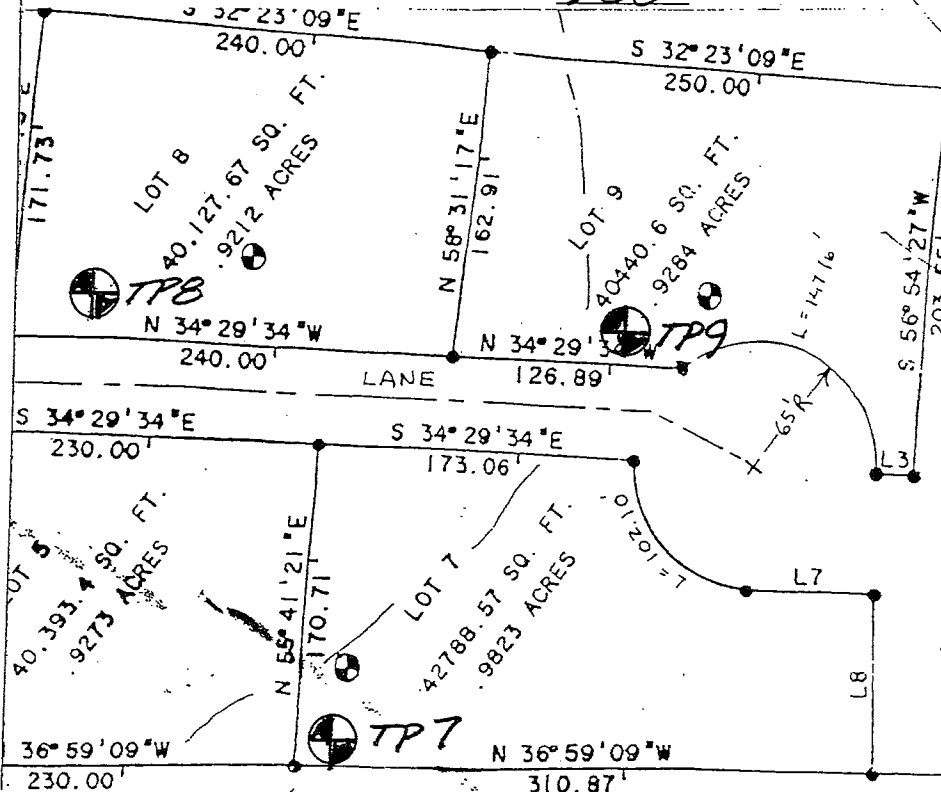
TKENTON

KELLEY LANE EST.

BONNIE KELLEY

## SITE PLAN

Scale 1" = 100 ft. or as shown



## SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TP8 & 9 ☒ Test Pit ☐ Boring  
 < 1" Depth of Organic Horizon Above Mineral Soil

| Texture               | Consistency | Color     | Mottling |
|-----------------------|-------------|-----------|----------|
| LOAM                  | FLAKE       | BROWN     | NONE     |
|                       |             | LIGHT     |          |
|                       |             | YELLOWISH |          |
|                       |             | BROWN     |          |
| SILT                  | FIRM        | OLIVE     | MANY     |
| LOAM                  |             |           | DISTINCT |
| TO                    | TO          |           |          |
| SILTY                 | V. FIRM     |           |          |
| CLAY                  |             |           |          |
| LOAM                  |             |           |          |
| LIMIT OF OBSERV = 30" |             |           |          |

|                     |       |                 |                                                       |
|---------------------|-------|-----------------|-------------------------------------------------------|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water      |
| 8 D                 | 1-5%  | 13"             | <input checked="" type="checkbox"/> Restrictive Layer |
| Profile Condition   |       |                 | <input type="checkbox"/> Bedrock                      |
|                     |       |                 | <input type="checkbox"/> Pit Depth                    |

Observation Hole TP7 & 10 ☒ Test Pit ☐ Boring  
 < 1" Depth of Organic Horizon Above Mineral Soil

| Texture               | Consistency | Color | Mottling |
|-----------------------|-------------|-------|----------|
| LOAM                  | FLAKE       | BROWN | NONE     |
|                       |             | LIGHT |          |
|                       |             | OLIVE |          |
|                       |             | BROWN |          |
| SILT                  | FIRM        | OLIVE | MANY     |
| LOAM                  |             |       | DISTINCT |
| TO                    | TO          |       |          |
| SILTY                 | VERY        |       |          |
| CLAY                  | FIRM        |       |          |
| LOAM                  |             |       |          |
| LIMIT OF OBSERV = 30" |             |       |          |

|                     |       |                 |                                                       |
|---------------------|-------|-----------------|-------------------------------------------------------|
| Soil Classification | Slope | Limiting Factor | <input checked="" type="checkbox"/> Ground Water      |
| 8 D                 | 1-5%  | 12"             | <input checked="" type="checkbox"/> Restrictive Layer |
| Profile Condition   |       |                 | <input type="checkbox"/> Bedrock                      |
|                     |       |                 | <input type="checkbox"/> Pit Depth                    |

Site Evaluator Signature

SE #

Date

#213 1/25/07