

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-4172

PROPERTY LOCATION		>> Caution: Permit Required - Attach in Space Below <<	
City, Town, or Plantation	Orland	ORLAND	
Street or Road	211 Upper Falls Road	PERMIT # 1481	STATE COPY
Subdivision, Lot #		Date Permit Issued: 9/8/03	\$ 175.00 FEE
OWNER/APPLICANT INFORMATION		Local Plumbing Inspector Signature: <u>[Signature]</u> L.P.I. # <u>672</u>	
Name (last, first, MI)	Grover, Tom	This Tank is in good shape they put in a filter system & a case	
Mailing Address of			
☐ Owner ☐ Applicant			
Daytime Tel #		Municipal Tax Map #	Lot #
Owner or Applicant Statement I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit. <u>[Signature]</u> Date <u>9-8-03</u>		Caution: Inspection Required I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application <u>4-1</u> <u>[Signature]</u> (1st) Date Approved <u>9-9-03</u> Local Plumbing Inspector Signature (2nd) Date Approved	

PERMIT INFORMATION

TYPE OF APPLICATION 1. ☐ First Time System 2. ☒ Replacement System Type Replaced <u>Bed ?</u> Year Installed: <u>1977</u> 3. ☐ Expanded System a. ☐ Minor Expansion b. ☐ Major Expansion 4. ☐ Experimental System 5. ☐ Seasonal Conversion	THIS APPLICATION REQUIRES 1. ☒ No Rule Variance 2. ☐ First Time System Variance a. ☐ Local Plumbing Inspector Approval b. ☐ State & Local Plumbing Inspector Approval 3. ☐ Replacement System Variance a. ☐ Local Plumbing Inspector Approval b. ☐ State & Local Plumbing Inspector Approval 4. ☐ Experimental System 5. ☐ Seasonal Conversion Approval	DISPOSAL SYSTEM COMPONENT(S) 1. ☒ Complete Non-engineered System 2. ☐ Primitive System (graywater & alternative toilet) 3. ☐ Alternative Toilet, specify _____ 4. ☐ Non-engineered Treatment Tank (only) 5. ☐ Holding Tank, capacity _____ gallons 6. ☒ Non-engineered Disposal Field (only) 7. ☐ Separated Laundry System 8. ☐ Complete Engineered System (2000 gpd or more) 9. ☐ Engineered Treatment Tank (only) 10. ☐ Engineered Disposal Field (only) 11. ☐ Pre-treatment, specify _____ 12. ☐ Miscellaneous components
SIZE OF PROPERTY <u>3</u> ☐ sq. ft. ☒ acres	DISPOSAL SYSTEM TO SERVE 1. ☒ Single Family Dwelling Unit, No. of Bedrooms <u>4</u> 2. ☐ Multiple Family Dwelling, No. of Units: _____ 3. ☐ Other: _____ SPECIFY _____	
SHORELAND ZONING ☐ Yes ☒ No	TYPE OF WATER SUPPLY 1. ☒ Drilled Well 2. ☐ Dug Well 3. ☐ Private 4. ☐ Public 5. ☐ Other: _____	

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK 1. ☒ Concrete a. ☒ Regular b. ☐ Low Profile 2. ☐ Plastic 3. ☐ Other: _____ CAPACITY: <u>1 000</u> gallons	DISPOSAL FIELD TYPE & SIZE 1. ☐ Stone Bed 2. ☐ Stone Trench 3. ☒ Proprietary Device a. ☐ Cluster array c. ☒ Linear b. ☐ Regular load d. ☐ H-20 Load 4. ☐ Other: _____ SIZE: ☐ sq. ft. ☐ lin. ft.	GARBAGE DISPOSAL UNIT 1. ☒ No 2. ☐ Yes 3. ☐ Maybe >> If yes/maybe, specify one below: a. ☐ Multi-Compartment Tank b. ☐ Tanks in Series c. ☐ Increase in Tank Capacity d. ☐ Filter on Tank Outlet	DESIGN FLOW <u>360</u> gallons-per-day (gpd) BASED ON: 1. ☒ Table 501.1 (dwelling unit/s) 2. ☐ Table 501.2 (other facilities) SHOW CALCULATIONS -- for other facilities --
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN <u>2</u> • <u>C</u> • <u>1</u> at Observation Hole # <u>1</u> Depth <u>18</u> " Elevation <u>-41</u> " OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING 1. ☐ Small -- 2.0 sq. ft./gpd 2. ☐ Medium -- 2.6 sq. ft./gpd 3. ☒ Medium-Large -- 3.3 sq. ft./gpd 4. ☐ Large -- 4.1 sq. ft./gpd 5. ☐ Extra Large -- 5.0 sq. ft./gpd	EFFLUENT/EJECTOR PUMP 1. ☒ Not Required 2. ☐ May Be Required 3. ☐ Required >> Specify dose for engineered & experimental systems DOSE: _____ gallons	3. ☐ Section 503.0 (meter readings) ATTACH WATER-METER DATA

SITE EVALUATOR STATEMENT

I certify that on 5/28/2003 (date) I completed a site evaluation on this property and state that the data reported herein are accurate and that the proposed system is in compliance with the Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Charles Heinonen

Site Evaluator Signature

294

SE #

5/31/03

Date

Charles E. Heinonen

Site Evaluator Name Printed

942-2880

Telephone #

E-Mail Address

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

Orland

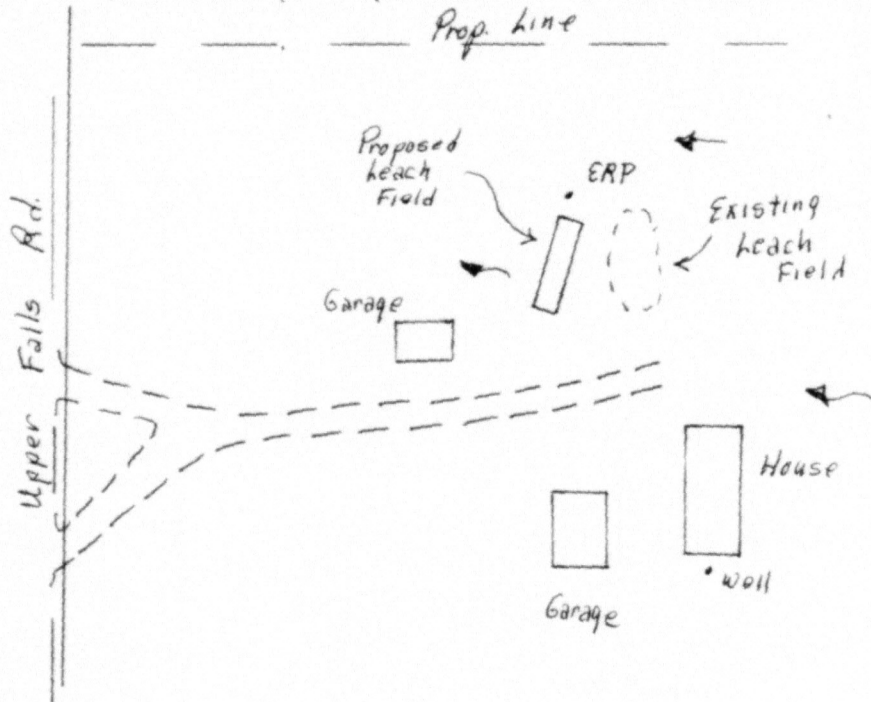
211 Upper Falls Road

Tom Grover

SITE PLAN

Scale 1" = 100 ft. or as shown

SITE LOCATION PLAN
(map from Maine Atlas
recommended)



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

Observation Hole TP-1 ☒ Test Pit ☐ Boring
1" Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
0 Rocky Loamy	Friable	Dk. Brown	None
10 Sand		Red Brown	
20		Yellow Brown	Few
30			
40			
50			

Soil Classification	Slope	Limiting Factor	☒ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth
2 C	12%	20"	
Profile Condition			

Observation Hole TP-2 ☐ Test Pit ☐ Boring
1" Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
0 Rocky loamy	Friable	Dk. Brown	None
10 Sand		Red Brown	
20		Yellow Brown	Few
30			
40			
50			

Soil Classification	Slope	Limiting Factor	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth
2 C	12%	18"	
Profile Condition			

Charles Henneman

Site Evaluator Signature

294

SE #

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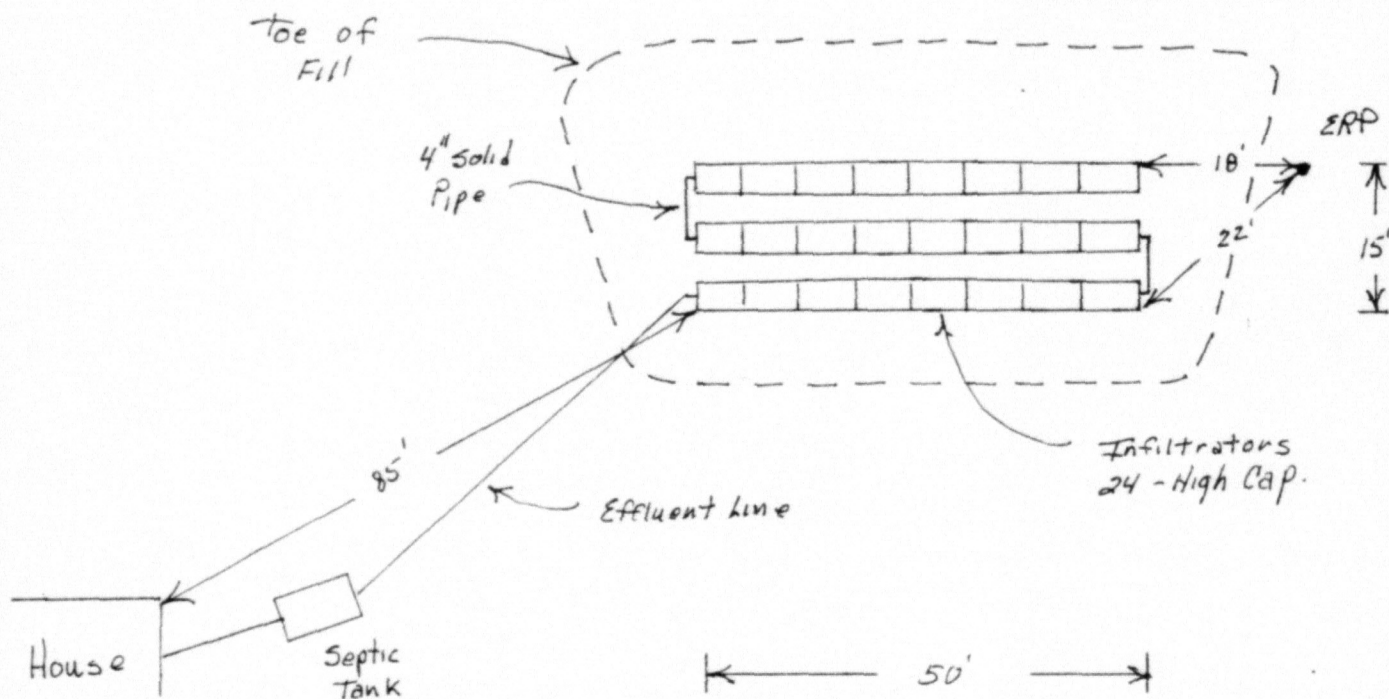
Orland

211 Upper Falls Road

Tom Grover

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20 FT.



FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

Depth of Fill (Upslope)

Finished Grade Elevation

Location & Description: Nail in 24" Tree

Top of Distribution Pipe or Proprietary Device

Reference Elevation: 0

Depth of Fill (Downslope)

Bottom of Disposal Area

DISPOSAL AREA CROSS SECTION

	Row 1	Row 2	Row 3
Finished Grade	-14	-20	-26
Top of Infiltrators	-22	-28	-34
Bottom of Trench	-38	-44	-50

Scale

Horizontal 1" = 10 ft.

Vertical 1" = 5 ft.

Notes

Building Sewer - 4 inch Sch 40 PVC

Effluent Line - 4 inch Sch 35 PVC (gravity) 2 inch solid pipe (pumped)

Transition Zone - a minimum of 4 inches of backfill material to be mixed into original soil by plowing, disking or rototilling.

Fill to be coarse sand to gravelly coarse sand with approximately 4 to 8% of the sand silt and clay fraction passing the #200 sieve. The upper limit of the clay size particles in the sand, silt and clay fraction shall be approximately 15 to 30%. The upper limit of rocks greater than 3 inches is 5%.

Avoid unnecessary compaction - rubber tired vehicles should be kept off of the field. Reopen smeared or compacted bottom or sidewall surfaces.

Excavation shall not be done when soil moisture content is above the plastic limit.

Prior to start of construction erosion control measures such as hay bales or silt fences shall be properly installed and adequately maintained during the project.

Bottom of field to be level, maximum tolerance is 2 inches per 100 feet.

Divert surface water away from field.

Important - see attached Chapter 8 - Disposal Field Construction Techniques.

Disposal field shall be at least twenty feet from structures with basement and fifteen feet from structures without basement.

Septic tank to be at least 8 feet from house or building.

Charles Heineman

Site Evaluator Signature

294

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Date

INFILTRATOR CROSS SECTION 11-12%

15'

3 3 3 3 3

8" CLEAN FILL
OVER INFILTRATORS
(MINIMUM)

Row 1

Row 2

Row 3

EDGE OF 3 FT. BERM

Max. Slope
4:1

Transition
Zone

Original Grade

	Row 1	Row 2	Row 3
Finished Grade	-14	-20	-26
Top of Infiltrators	-22	-28	-34
Bottom of Trench	-38	-44	-50

NOTES:

1. REMOVE VEGETATION AND SCARIFY ORIGINAL SOIL UNDER INFILTRATORS AND FILL EXTENSION AREAS.
2. BOTTOM OF INFILTRATORS TO BE LEVEL WITH A MAXIMUM GRADE TOLERANCE OF 1" PER 100'.
3. PROVIDE FOR SURFACE DRAINAGE AWAY FROM INFILTRATOR AREA.
4. FINISHED GRADE SHALL BE SEEDED AND MULCHED TO PREVENT EROSION.

ORIGINAL GRADE

FILL UNDER INFILTRATORS TO BE Gravelly Silty Sand TEXTURE.

FILL AROUND INFILTRATORS TO BE 12 " 6 " 1 " TEXTURE.

SITE EVALUATOR:

C Heinonen

OWNER:

Tom Grover

LOCATION:

211 Upper Falls Rd

DATE:

5/31/03

SCALE:

1 INCH = 5 FEET

PERCENT
SLOPE:

24

NUMBER OF
INFILTRATORS:

12%

ELEVATIONS:

REFERENCE PT.

0

BOTTOM TRENCH #1 -38

BOTTOM TRENCH #2

-44

BOTTOM TRENCH #3 -50