

# CHATHAM COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH DIVISION

80 East Street ▪ P. O. Box 130 ▪ Pittsboro, NC 27312-0130  
Phone (919) 542-8208 ▪ Fax (919) 542-8288

**OFFICE USE ONLY**

TPN \_\_\_\_\_

Permit No. \_\_\_\_\_

Date \_\_\_\_\_

EHS \_\_\_\_\_

System Type \_\_\_\_\_

## Improvement Permit for Wastewater Systems ARTICLE II-CHAPTER 130A OF THE NC GENERAL STATUTES

NEW  REPAIR  EXPANSION  REVISED

An Improvement Permit is issued to Selinco, Ltd. for  
a 6.26 acre site located Deer Mountain Lot 28

in Chatham County. It is specifically issued for the following facility:

Facility: Residential (X) Non-Residential ( )

No. Bedrooms 4 No. Residents/Employees 8 max

Type Wastewater: Residential (X) Commercial ( )

Initial System Type: I ( ) II ( ) III (X) IV ( ) V ( ) VI ( )

Description \_\_\_\_\_

Type System: Shallow Conventional ( ) LPP ( )  
Other Pump to Accepted 25% Reduction

Design Flow 480 EPGD Application Rate .3 GPD/ft<sup>2</sup>

Size Tank(s) w/Risers and Effluent Filter ST 1000 Gal PT 1000 Gal

Nitrification Line (Length/Width/Max Depth) 405' x 3' x 12"

6" cover required over system area  
(On contour in approved septic area; sch. 40 PVC required over step-downs)

Repair System Type: I ( ) II ( ) III (X) IV ( ) V ( ) VI ( )  
Description Pump to Accepted 25% Reduction

Special Conditions \_\_\_\_\_

A plat with site plan showing specific location of the facility, the site for the proposed wastewater system, existing buildings, property lines, water supplies, surface waters, the conditions for any site modifications; and any other information required by the department must be attached to be valid.  
Septic tank riser 6" above grade required over outlet access port as a visible marker for the septic tank.  
Solid PVC with elbows must be used to construct conveyance over dams or stepdowns.

This permit is valid [ ] without expiration [X] for five years but is subject to revocation if the site is altered, soil disturbed, set-backs violated, or the plans of intended use are changed.  
The Improvement Permit shall not be affected by change in ownership.

**THIS IS NOT AUTHORIZATION TO INSTALL.** An authorization for Wastewater Construction must be obtained from this department before installation.

Issued by Jenni C. Ritter R.S.  
Environmental Health Specialist

N.C. Registration Number 1971  
Date 2-8-08

Name Deer Mountain Lot 28 911 Address

**Selinco, LTD**  
**Deer Mountain Subdivision, Lot 28**  
 4-Bedroom Home (480 gal./day)

<u>LINE #</u>	<u>COLOR</u>	<u>BS</u>	<u>HI</u>	<u>FS</u>	<u>ELEVATION</u>	<u>LINE LENGTH</u>	<u>Design Length</u>
TBM		2.3		100.0		<u>in field</u>	<u>installation</u>
INST. 1			102.3				
1	Blue			-13.8	116.1	90	90
2	Pink			-12.4	114.7	100	100
3	Yellow			-10.8	113.1	120	115
4	Red			-9	111.3	126	115
5	<i>Orange</i>			<i>-7.1</i>	<i>109.4</i>	<i>135</i>	<i>135</i>
6	<i>Blue</i>			<i>-5.4</i>	<i>107.7</i>	<i>135</i>	<i>135</i>
7	<i>Pink</i>			<i>-3.5</i>	<i>105.8</i>	<i>135</i>	<i>135</i>
Total						841	825

<b>System Type</b>	<u>System</u>	<u>Repair</u>
	Lines 5-7	Lines 1-4
	Accepted Status System	Accepted Status System
	EZ-FLOW	EZ-FLOW
<b>Suggested Soil LTAR</b> (gal/day/ft <sup>2</sup> )	0.30	0.30
System Installation LTAR	0.30	0.29
<b>Total Line Length</b>	405	420
<b>Square Footage</b>	1215	1260
<b>Proposed Trench Bottom</b>	<del>24" 12"</del>	<del>24" 12"</del>
<b>Distribution Method</b>	Pressure Manifold	Pressure Manifold

Notes: TBM is top of cut tree between lines 3 and 4 of easement area 'G'

Sheet1

**Selinca, LTD  
Deer Mountain, Lot 28  
Initial, Tap Chart**

Bench Mark	2.30	is = 100.00	Location of BM					Elevation Head	15.40
Pump tank elev.	4	98.30	Pump elev.	93.30			Manifold elev.	108.70	
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
5	Orange	-7.1	109.40	135	3/4in SCH 80	10.1	160.00	405	0.3951
6	Blue	-5.40	107.70	135	3/4in SCH 80	10.1	160.00	405	0.3951
7	Pink	-3.50	105.80	135	3/4in SCH 80	10.1	160.00	405	0.3951

<b>total</b>	<b>feet =</b>	<b>405</b>	<b>gal/min =</b>	<b>30.3</b>	<b>LTAR =</b>	<b>0.3000</b>
					<b>LTAR + %5</b>	<b>0.3150</b>
<b>% of Dose Vol.</b>	<b>60</b>	<b>Des. Flow</b>	<b>480</b>		<b>(ltar W/ INOV)</b>	<b>0.4000</b>
<b>Dose Volume</b>	<b>157.95</b>	<b>Pump Run=</b>	<b>15.84</b>		<b>(ltar W/ INOV + 5%)</b>	<b>0.4200</b>
<b>Dose Pump Time</b>	<b>5.21</b>	<b>Tank Gal/IN</b>	<b>21</b>			
<b>Drawdown in Inches</b>	<b>7.52</b>					

Sheet1

**Selinca, LTD  
Deer Mountain, Lot 28  
Repair, Tap Chart**

Bench Mark	2.30	is = 100.00	Location of BM		Elevation Head	22.40			
Pump tank elev.	4	rod read	Elevation	Pump elev.	93.30	Manifold elev.	115.70		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR
1	Blue	-13.8	116.10	90	1/2in SCH 40	7.11	99.15	270	0.3672
2	Pink	-12.40	114.70	100	1/2in SCH 40	7.11	99.15	300	0.3305
3	Yellow	-10.80	113.10	115	3/4in SCH 80	10.1	140.85	345	0.4083
4	Red	-9	111.30	115	3/4in SCH 80	10.1	140.85	345	0.4083

<b>total</b>	<b>feet =</b>	<b>420</b>	<b>gal/min =</b>	<b>34.42</b>	<b>LTAR =</b>	<b>0.3000</b>
					<b>LTAR + %5</b>	<b>0.3150</b>
<b>% of Dose Vol.</b>	65	<b>Des. Flow</b>	480		<b>(ltar W/ INOV)</b>	0.4000
<b>Dose Volume</b>	177.45	<b>Pump Run=</b>	13.95		<b>(ltar W/ INOV + 5%)</b>	0.4200
<b>Dose Pump Time</b>	5.16	<b>Tank Gal/IN</b>	21			
<b>Drawdown in Inches</b>	8.45					