

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

An Improvement Permit is issued to Terra Cognitum (Mayfield lot 1) for
a 1.93± acre site located on Linn's Fields Rd
in Chatham County. It is specifically issued for the following facility:

Facility: Residential Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential Commercial ()

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

Description Pump to Shallow Conventional or Accepted System

Type System: Shallow Conventional LPP ()

Other _____

Design Flow 360 EPGD Application Rate 0.275 GPD/ft²

Size Tank(s) w/Risers and Effluent Filter ST 1000 Gal PT 1100 Gal

Nitrification Line (Length/Width/Max Depth) 440' L x 3' W x 18" D

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

Repair System Type: I () II () III IV () V () VI ()

Description SAME AS ABOVE

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.

This permit is valid [] without expiration [] 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 James Cal Zwick, R.S.
Environmental Health Specialist

N.C. Registration Number 1912

Date 2-6-06

Name Mayfield Lot 1 911 Address Linn's Fields Rd

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

NEW REPAIR EXPANSION

An Improvement Permit is issued to Terra Coaratum, LLC (Mayfield Lot 2) for
a 3.41 ± acre site located ON Lonnie Fields Rd.

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

Facility: Residential Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential Commercial ()

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

Description pump to shallow conventional or Accepted System

Type System: Shallow Conventional LPP ()

Other _____

Design Flow 360 EPGD Application Rate 0.25 GPD/ft²

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

Nitrification Line (Length/Width/Max Depth) 480' L x 3' w x 18" D

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

Repair System Type: I () II () III IV () V () VI ()

Description SAME AS ABOVE

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.

This permit is valid [] without expiration 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 James Carl Sweet R.S.
Environmental Health Specialist

N.C. Registration Number 1912

Date 2-6-06

Name Mayfield Lot 2 Address 911 Lonnie Fields Rd

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

NEW REPAIR EXPANSION

An Improvement Permit is issued to Terra Cognition, LLC (Mayfield lot 3) for
a 3.65 ± acre site located on Lennie Fields Rd.
in Chatham County. It is specifically issued for the following facility:

Facility: Residential () Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential () Commercial ()

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

Description pump to INNOVATIVE Gravelless Trench 35% Reduction

Type System: Shallow Conventional () LPP ()

Other _____

Design Flow 360 EGD Application Rate 0.275 GPD/ft²

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

Nitrification Line (Length/Width/Max Depth) 290' L x 3' W x 12" D

6" Min. Soil Cover Required over System

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

Repair System Type: I () II () III () IV () V () VI ()

Description pump to Accepted Gravelless Trench for 25% Red.

Special Conditions - Contractor must MEET on site

prior to Installation

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.

This permit is valid [] without expiration [] 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 James Carl Zivett R.S.
Environmental Health Specialist

N.C. Registration Number 1912

Date 2-6-06

Mayfield lot 3
Lennie Fields Rd.
911 Address
Name

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

NEW REPAIR EXPANSION

An Improvement Permit is issued to Terra Cognitum LLC (Mayfield lot 4) for
a 12.29± acre site located on Louie Fields Rd.

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

Facility: Residential Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential Commercial ()

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

Description pump to shallow conventional or accepted system

Type System: Shallow Conventional LPP ()

Other _____

Design Flow 360 EPGD Application Rate 0.275 GPD/ft²

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

Nitrification Line (Length/Width/Max Depth) 44' 2" x 3' w x 18" d

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

Repair System Type: I () II () III IV () V () VI ()

Description pump to accepted trenchless trench

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.

This permit is valid [] without expiration [] 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 James Carl Kirt, R.S.
Environmental Health Specialist

N.C. Registration Number 1912

Date 2-6-06

Name Mayfield lot 4 911 Address Louie Fields Rd.

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EHS _____

System Type _____

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

NEW REPAIR EXPANSION

An Improvement Permit is issued to Terra Cognitum, LLC (Mayfield Lot 7) for
a 6.98± acre site located on Lonnie Fields Rd.

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

Facility: Residential () Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential () Commercial ()

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

Description equal to shallow conventional or accepted system

Type System: Shallow Conventional () LPP ()

Other _____

Design Flow 360 EGD Application Rate 0.3 GPD/ft²

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

Nitrification Line (Length/Width/Max Depth) 480' 400' x 3' w x 18"

Soil
2-6-06

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

Repair System Type: I () II () III () IV () V () VI ()

Description SAME AS ABOVE

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.

This permit is valid [] without expiration [] 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 James Carl Perrett, R.S.
Environmental Health Specialist

N.C. Registration Number 1912

Date 2-6-06

Name Mayfield Lot 7
Address 911 Lonnie Fields Rd.

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Date _____

EHS _____

System Type _____

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

NEW REPAIR EXPANSION

An Improvement Permit is issued to Terra Cognitum, LLC (Mayfield Lot 8) for
a 6.05 ± acre site located on Louie Fields Rd
in Chatham County. It is specifically issued for the following facility:

Facility: Residential () Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential () Commercial ()

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

Description pump to shallow conventional w/ accepted system

Type System: Shallow Conventional () LPP ()

Other _____

Design Flow 360 EPGD Application Rate 0.25 GPD/ft²

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

Nitrification Line (Length/Width/Max Depth) 480' L x 3' W x 18" D

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

Repair System Type: I () II () III () IV () V () VI ()

Description At-Grade Conventional Trench

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.

This permit is valid [] without expiration [] 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 James Carl Jewett, R.S.
Environmental Health Specialist

N.C. Registration Number 1912

Date 2-6-06

name Mayfield Lot 8 911 Address Louie Fields Rd

CHATHAM COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH DIVISION

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EHS _____
System Type _____

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

NEW REPAIR EXPANSION

An Improvement Permit is issued to Terra Cognitum LLC (Manfield 6079) for
a 3.92 ± acre site located on Louie Fields Rd.
in Chatham County. It is specifically issued for the following facility:

Facility: Residential () Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential () Commercial ()

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

Description Shallow Conventional or Accepted System

Type System: Shallow Conventional () LPP ()

Other _____

Design Flow 360 EPGD Application Rate 0.25 GPD/ft²

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

Nitrification Line (Length/Width/Max Depth) 480' L x 3' W x 15" D

6" min soil cover required over system

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

Repair System Type: I () II () III () IV () V () VI ()

Description SAME AS ABOVE

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.

This permit is valid [] without expiration [] 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 James Carl Swett R.S.
Environmental Health Specialist

N.C. Registration Number 1912

Date 2-6-06

911 Address
Name
Louie Fields Rd
Manfield 6079

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Date _____

EHS _____

System Type _____

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

NEW REPAIR EXPANSION

An Improvement Permit is issued to Terra Cognitum LLC (Mayfield lot 10) for
a 3.21 ± acre site located on Lonnie Fields Rd
in Chatham County. It is specifically issued for the following facility:

Facility: Residential () Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential () Commercial ()

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

Description Shallow Conventional or Accepted System

Type System: Shallow Conventional () LPP ()

Other _____

Design Flow 360 EPGD Application Rate 0.25 GPD/ft²

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

Nitrification Line (Length/Width/Max Depth) 480' L x 3' W x 15" D

6' min. Soil cover required over system

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

Repair System Type: I () II () III () IV () V () VI ()

Description SAME AS ABOVE

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.

This permit is valid [] without expiration [] 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 James Carl Zwick, R.S.
Environmental Health Specialist

N.C. Registration Number 1912

Date 2-6-06

911 Address
Name
Mayfield lot 10
Lonnie Fields Rd

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

NEW REPAIR EXPANSION

An Improvement Permit is issued to Terra Cognitum LLC (Mayfield lot 11) for
a 3 ± acre site located on Lonia Fields Rd.
in Chatham County. It is specifically issued for the following facility:

Facility: Residential () Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential () Commercial ()

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

Description Shallow Conventional or Accepted System

Type System: Shallow Conventional () LPP ()

Other _____

Design Flow 360 EPGD Application Rate 0.25 GPD/ft²

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

Nitrification Line (Length/Width/Max Depth) _____ : 480' l x 3' w x 15" d

6' min soil cover required over system

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

Repair System Type: I () II () III () IV () V () VI ()

Description Accepted Gravelless Trench for 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.

This permit is valid [] without expiration [] 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 [Signature]
Environmental Health Specialist

N.C. Registration Number 1912

Date 2-6-06

Name Mayfield Lot 11
911 Address Lonia Fields Rd

CHATHAM COUNTY HEALTH DEPARTMENT ENVIRONMENTAL HEALTH DIVISION

80 East Street ▪ P. O. Box 130 ▪ Pittsboro, NC 27312-0130
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System Type _____

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

NEW REPAIR EXPANSION

An Improvement Permit is issued to Terra Cognitum LLC (Mayfield Lot 12) for
a 3.64 ± acre site located on Lonnie Fields Rd

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

Facility: Residential () Non-Residential ()

No. Bedrooms 3 No. Residents/Employees 6 max

Type Wastewater: Residential () Commercial ()

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

Description Accepted Gravelless Trench for 25% Reduction

Type System: Shallow Conventional () LPP ()

Other _____

Design Flow 360 EPGD Application Rate 0.25 GPD/ft²

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

Nitrification Line (Length/Width/Max Depth) 360' L x 3' W x 18" D

Chamber or polystyrene aggregate system

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

Repair System Type: I () II () III () IV () V () VI ()

Description At-Grade Conventional Trench

Special Conditions Interceptor Drain Required 10ft

Above system 30" Deep Min.

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.

This permit is valid [] without expiration [] 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 James Carl Zwick R.S.
Environmental Health Specialist

N.C. Registration Number 1912

Date 2-6-06

911 Address
Name
Mayfield Lot 12
Lonnie Fields Rd