Homeowner Agreement

To Participate in Florida Onsite Sewage Nitrogen Reduction Strategies Study

Nitrogen is an important concern for water quality. Animals, crops, ecosystems, and human health can be adversely impacted by the presence of nitrogen in water supplies. The environmental effects of nitrogen on groundwater and surface water can ultimately lead to the degradation of surface waters in watershed systems that have strong groundwater/surface water interactions. Nitrogen that enters surface water bodies via these interactions can lead to algal blooms and eutrophication. These processes lead to oxygen depletion in surface waters which can be harmful to natural aquatic life. In Florida, the protection of watersheds, in particular surface water bodies, has led to the legislation of protection of these areas (i.e., the Wekiva River Protection Act).

A research study to examine nitrogen reduction strategies for onsite sewage treatment and disposal systems in the State of Florida is underway. The project is being conducted by Hazen and Sawyer, P.C an environmental engineering firm under contract with the Florida Department of Health (FDOH).

One element of this research project is to prioritize nitrogen removal technologies under field conditions. To reach this goal, field-testing of nitrogen reducing technologies at home sites is needed to compare various treatment systems for their ability to remove nitrogen. Monitoring nitrogen reduction of the systems will occur at various locations in the State of Florida. In addition, the research project includes subsurface and groundwater monitoring which will be used to assess the current level of nitrogen reduction obtained by Florida soils and to assess groundwater impacts due to conventional and nitrogen removal systems.

The participation of select homeowners is essential for the success of this research program. Therefore, we are looking for volunteers to allow their onsite wastewater systems to be used for this project. All homeowners will remain anonymous in all data analysis and reporting. The study will last up to two years with all site visits scheduled at the homeowner's convenience with adequate notice provided. No work will be done inside the home without homeowner's permission. The earliest start time for work will be 8:30 am. The work at each property may include:

- Property walkovers to characterize land uses and features
- Collection of information from the owner regarding water use and wastewater system data
- Installation of new wastewater treatment equipment
- Soil borings
- Installation of monitoring wells
- Collection of wastewater samples
- Monitor energy used and other operational costs

Hazen and Sawyer, P.C. will be responsible for: application for permits, modifications, operation, maintenance, monitoring, inspections, and removal or leaving the system in place at study termination. Hazen and Sawyer is fully insured for this work, and a copy of the certificate of insurance is attached. The project funds will cover the cost of any permits required, any new technology installed, operation and maintenance costs during the study, and restoration of property. All project payments will terminate upon site closure. The homeowner shall agree to not tamper with the system during the monitoring period. The site will be restored to the original condition upon completion of the study if desired by the homeowner. All homes participating in the study will receive a $250 cash incentive.

If you are interested in becoming involved in this important research project, please fill in the information below and sign where indicated. We will coordinate all our activities with you and give you any additional information you require prior to beginning work at your property.

Thank you for taking the time to consider this request, and we look forward to your response.

Very truly yours,

Hazen and Sawyer, P.C.

Name: [redacted]

Address: [redacted]

Mailing Address: [redacted]

Telephone: [redacted]

Fax: [redacted]

Email: [redacted]

Type of system installed/existing to be evaluated: PASSIVE GRAVITY Feed

HOMEOWNER

By: [redacted]

HAZEN AND SAWYER, P.C.
10002 Princess Palm Avenue
Registry One, Suite 200
Tampa, FL 33619

By: Damann L. Anderson
Damann L. Anderson

Title: Vice President

encl.: Certificate of Insurance

RESIDENTIAL EVALUATION SURVEY

Name: ___[redacted] Date: __12/16/2010_____ Time: __10 AM_____

Street Address: _[redacted]

City: ___Longwood_____ State: ___Florida__ Zip Code: _32779-9749_____

Mailing Address (if different from above):

_____

Daytime Phone (Cell): _[redacted]_____

Evening phone (Home): ___[redacted]_____

Parcel #: _[redacted]

Designer: _____

Installer: _____ City : _____ State : _____

Property Size (acres or sq. ft.) : _1 acre_____

A. Home/Residents

1. Is this your first home with an on-site wastewater treatment system? NO
2. Did you receive any septic system user information? YES
3. Did you receive the as-built drawing for the system? NO
4. Any additions to the home since septic system was built?

   Bedrooms ___No_____

   Bathrooms ___No_____

   Other _____
5. Type of use: Permanent

   If seasonal, number of months used _____

   a. Number of people living in the home: Adults (18-65): _1_ M _1_F

   Seniors (>65): _1_ M ___F

   Children (<13): ___ M ___F

   Teenagers (13-17): ___ M ___F

   b. Guests (Approximate number and frequency): __2-4 monthly_____

   c. Number of bedrooms: __4/5_____ Number of bathrooms: ___4 1/2_____

   d. Number of pets: Dogs__Visit____ Cats_____ Number of pet baths per month: _____
6. Number of showers per week: __14___ Number of baths per week: _____
7. Water supply: Private well _____
8. Do you have an in-home business? YES

   If “yes”, what type? ___Home Office for Advertising Sales, Marketing Strategies, Real Estate Sales Agent

9. Do you use septic system additives? YES

   If "yes", what products? _____Rid-X_____ Frequency: ___Once a year_____

B. System *(completed by O&M service provider or homeowner if no service provider)*

10. Type of pretreatment system: X Septic tank ☐ATU ☐Media filter ☐ Constructed wetland
    a. Specific type of system ____? _____
    b. Make and Model _____? _____
11. How old is the system? _33_____ (years) Date of last pump out: ____? _____
12. Has the system ever backed up? NO
13. Have the baffles ever been plugged? NO
14. Effluent screen in septic tank outlet? NO
15. Has effluent screen ever plugged? NO Date(s): _____
16. Has the system ever been repaired? NO

    Record of System's Service: _____None_____

17. Has effluent ever surfaced? NO
18. Has the alarm ever sounded? NO
19. Soil type – at drain field depth or lower: __? _____
20. Type of distribution/dispersal system:

    X Gravity ☐Trench ☐ Pressure dose ☐Mound ☐Drip ☐Spray

    ☐Other: _____
21. Control system: Demand / Timed
22. Design rate for system: __?_____ (GPD)
23. Septic tank size: _?_____ (gallons) Pump tank: _NA_____ (gallons)
24. Sludge levels in septic tank: 1st compartment accumulation _____

    Floating materials _____

    2nd compartment accumulation _____

    Floating materials _____
25. Sludge level in pump tank: Accumulated _____

    Floating materials _____
26. Is the pump working? YES / NO
27. Duration of pump cycle: _____ (minutes) Pump drawdown: _____

C. Water Use

28. Actual **indoor** water use (GPD): Average: ___X_____ High: _____ Low: _____
    Reading this data from: _____ cycle counter
    _____ hour meter on pump
    _____ water meter
    __Unmetered Well_____ other

29. Actual **outdoor** water use (GPD): Average: _____ High: _____ Low: ___X_____
    Reading this data from: _____ cycle counter
    _____ hour meter on pump
    _____ water meter
    ___Unmetered Well_____ other

D. Additional Information (*completed by homeowner or at site visit and evaluation*)

30. Water supply: ?
    a. Raw Water Quality Characteristics: Hardness _____ (gpg) Iron _____ (ppm)
       TDS _____ (ppm) pH _____ Chlorine (total or free) _____ (ppm)
    b. Other Water Quality characteristics:
       Hydrogen Sulfide _____ (ppm) Sulfates _____ (ppm) Alkalinity _____
       Other 1 _____ Other 2 _____ Other 3 _____
       Other Comments _____

31. Water treatment device(s):
    a. Is a water softener used? NO Back flushes to: _____
       Brand _____ Model/Year Installed _____
       Regeneration Method? Timer / Demand Initiated Regeneration (Meter or Sensor)
       Softening Regenerant? NaCl / KCl Salt per Regeneration (lbs) _____
       Salt Purchased (lbs per month) _____
       Estimated Brine Volume _____ (gallons) Combined Discharge TDS _____ (ppm)
       Backwash Time _____ (min) Backwash Flow Rate _____ (gpm)
       Backwash Volume _____ (gallons) Fast Rinse Time _____ (min)
       Fast Rinse Flow Rate _____ (gpm) Fast Rinse Volume _____ (gallons)
       Total Regeneration Water _____ (gallons) Total Time for Regeneration _____ (min)
       Avg. Flow to Drain during Regeneration _____ (gpm) Regenerations per month _____
       Average Daily Drain Water _____ (gallons)
    b. Reverse osmosis? NO Discharges to: _____
       Brand _____ Model/Year Installed _____
       Auto Shut Off? YES / NO Rated Capacity _____ (gallons/day)

Daily water consumed _____ (gallons) Stated Recovery Ratio _____

Estimated Daily Water to Drain _____ (gallons)

c. Backwashing Water Filter (iron, sediment, etc)? NO

Back flushes to: _____ Brand _____

Model/Year Installed _____ Regenerant (if any) _____

Regeneration Frequency _____ Backwash Time _____ (min)

BW Flow Rate _____ (gpm) BW Volume _____ (gallons)

Fast Rinse Time _____ (min) FR Flow Rate _____ (gpm)

FR Volume _____ (gallons) Total Regenerant Water _____ (gallons)

Total Time for Regeneration _____ (min) Avg. Flow to Drain _____ (gpm)

Regenerants Per Month _____ Average Daily Drain Water _____ (gallons)

d. Other Water Treatment Devices: _____

e. Treated Water Quality Characteristics:

Hardness _____ (gpg) Iron _____ (ppm)

TDS _____ (ppm) pH _____ Chlorine (free) _____ (ppm)

Other Water Quality characteristics:

Hydrogen Sulfide _____ (ppm) Sulfates _____ (ppm) Alkalinity _____

Other 1 _____ Other 2 _____ Other 3 _____

Other Comments

_____

32. Is there an outside power supply? ? YES / NO

If yes, does it have its own breaker? _____

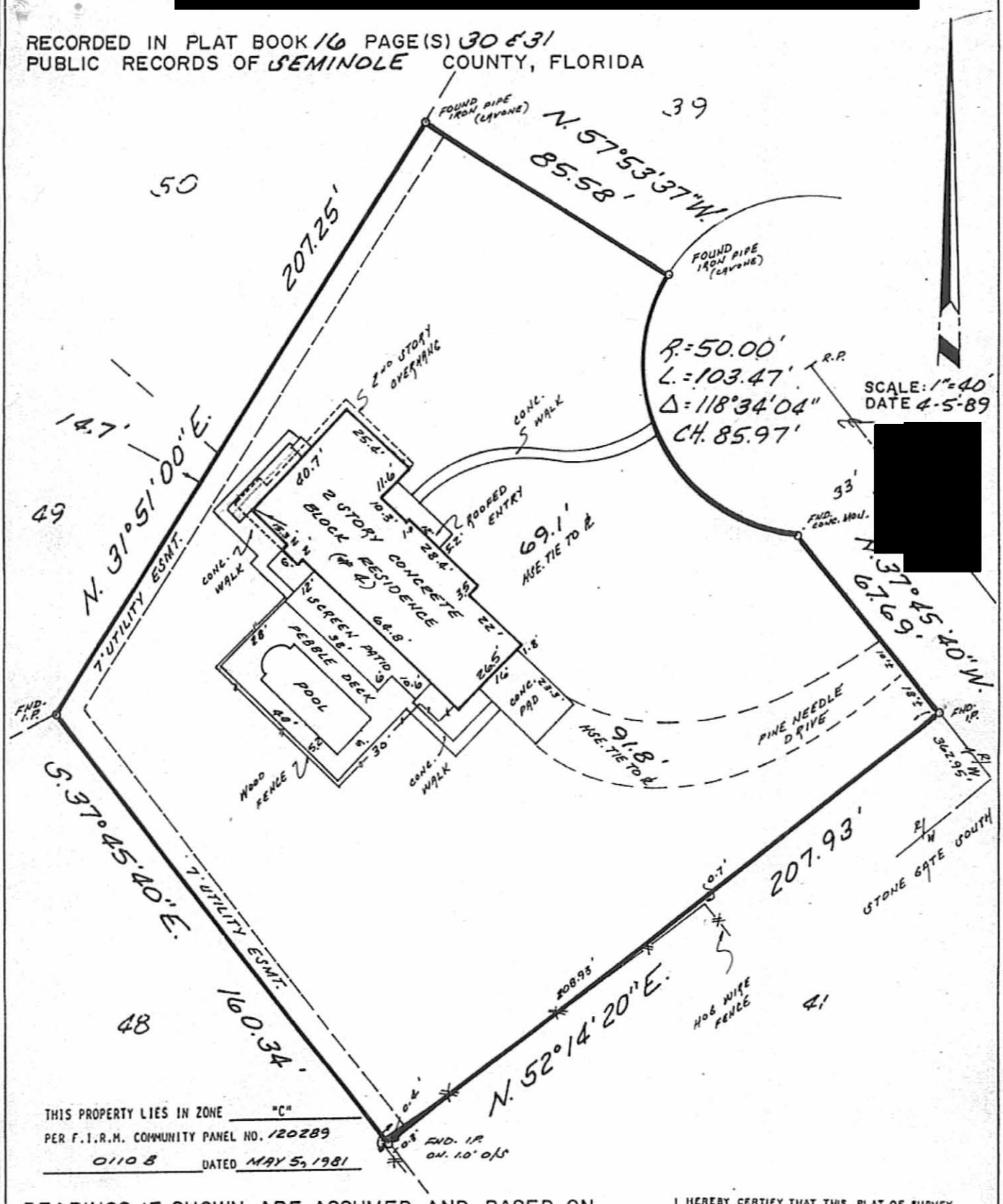
How many amps? _____

33. Is there an outside water spigot? YES

If yes, does it require a key? _____

DESCRIPTION [redacted]

RECORDED IN PLAT BOOK 16 PAGE(S) 30 & 31
PUBLIC RECORDS OF SEMINOLE COUNTY, FLORIDA



THIS PROPERTY LIES IN ZONE "C"
PER F.I.R.M. COMMUNITY PANEL NO. 120289 0110 B DATED MAY 5, 1981

BEARINGS IF SHOWN, ARE ASSUMED AND BASED ON RECORDED PLAT, UNLESS OTHERWISE NOTED.

THIS BUILDING DOES NOT LIE WITHIN THE ESTABLISHED 100 YEAR FLOOD PLAIN ZONE.

I HEREBY CERTIFY THAT THIS PLAT OF SURVEY OF THE ABOVE DESCRIBED PROPERTY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS RECENTLY SURVEYED UNDER MY DIRECTION AND THAT IT MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS PURSUANT TO SECTION 472.027 OF THE FLORIDA STATUTES

PREPARED FOR: [redacted]

CERTIFIED TO: FIRST AMERICAN TITLE INSURANCE CO.
QUENTIN R. & MARGARET A. BEITEL
PRUDENTIAL HOME MORTGAGE COMPANY, INC.

JAMES P. IRELAND PLS 4200

FILE No. 237891

JAMES P. IRELAND P.L.S. 4200
2950 ALOMA AVENUE, WINTER PARK, FLA.
SUITE 401 PH. 678-3366 32792

Search

Map Unit Legend

Seminole County, Florida (FL117)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6	Astatula-Apopka fine sands, 0 to 5 percent slopes	2.2	14.3%
7	Astatula-Apopka fine sands, 5 to 8 percent	13.3	85.7%
Totals for Area of Interest		**15.5**	**100.0%**

Legend

Soil Map

Scale (not to scale)