

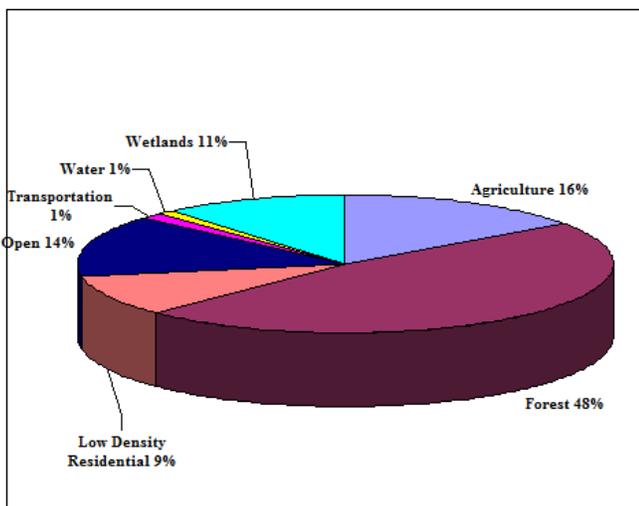
Waterbody: Patty Sink Drain



Basin: Patty Sink

Patty Sink Drain is a slightly tannic, nitrogen-limited stream that flows south and eventually drains into Patty Sink and the Floridan Aquifer.

As shown in the following pie chart, approximately 26% of land use in the Patty Sink 10,167 acre watershed is agricultural, residential, or transportation. Increases in stormwater runoff, and waterbody nutrient loads can often be attributed to these types of land uses.



Background

Healthy, well-balanced stream communities may be maintained with some level of human activity, but excessive human disturbance may result in waterbody degradation. Human stressors may include

increased inputs of nutrients, sediments, and/or other contaminants from watershed runoff, adverse hydrologic alterations, undesirable removal of habitat or riparian buffer vegetation, and introduction of exotic plants and animals. Water quality standards are designed to protect designated uses of the waters of the state (e.g., recreation, aquatic life, fish consumption), and exceedances of these standards are associated with interference of the designated use.

Methods

Surface water sampling was conducted to determine the health of Patty Sink Drain and met the collection and analysis requirements of the Florida Department of Environmental Protection (FDEP).

Results

Nutrients

According to FDEP requirements, Numeric Nutrient Criteria (expressed as an annual geometric mean) cannot be exceeded more than once in a three year period. Due to low water conditions, four temporally independent samples per year have never been collected from this station. Even though staff was not able to collect the required amount of samples, some conclusions can be made. Based on the average of two samples taken in 2014, total phosphorus (0.07 mg/L) and total nitrogen levels (0.38 mg/L) were low when compared to other streams in Florida.

Fecal Coliforms

Fecal coliform levels during October 2013 (600/100 mL) were elevated and exceeded the Class III criterion of fecal coliforms not exceeding the 400 Most Probable Number (MPN) in 10 percent of the samples. No exceedances were seen in 2014.

Other Parameters

Other water quality parameters appear to be normal for the area and no impairments were noted.

Conclusions

Based on ongoing sampling, total phosphorus and total nitrogen levels were low when compared to other streams in Florida. Fecal coliform levels during the October 2013 sampling event were elevated and exceeded the Class III criterion. No exceedances were seen in 2014. Other water quality parameters appear to be normal for the area and no other impairments were noted.

Thank you for your interest in maintaining the quality of Leon County's water resources. Please feel free to contact us if you have any questions.

Contact and resources for more information

www.LeonCountyFL.gov/WaterResources

[Click here to access the results for all water quality stations sampled in 2014.](#)

[Click here for map of watershed – Sample station 5.](#)

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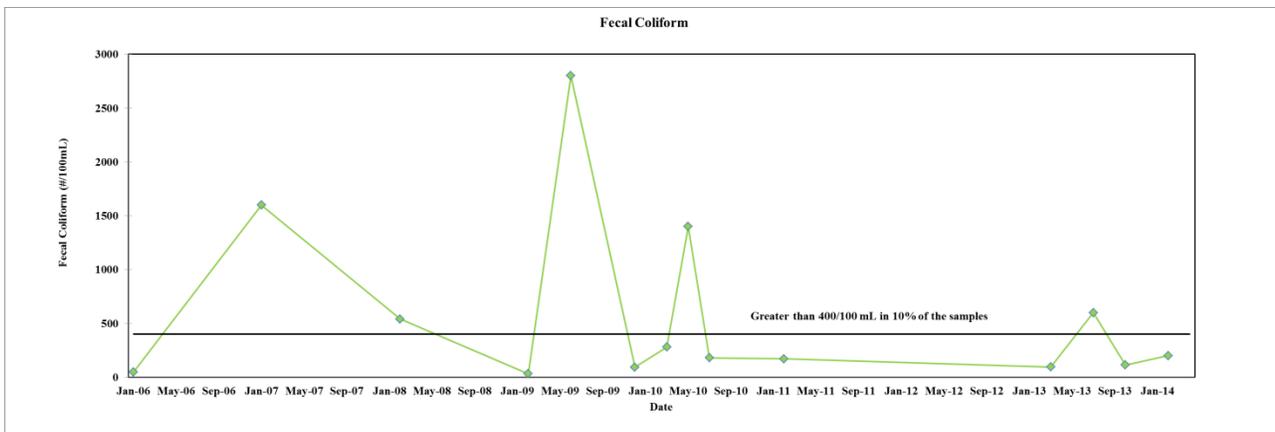


Figure 1. Fecal Coliform results for Patty Sink.